

# **British Journal of Pharmacology**

**Instructions to Authors  
Nomenclature Guidelines**

**Index  
Volumes 108–110  
1993**

## BRITISH JOURNAL OF PHARMACOLOGY

The *British Journal of Pharmacology* welcomes contributions in all fields of experimental pharmacology including neuroscience, biochemical, cellular and molecular pharmacology. The Board of Editors represents a wide range of expertise and ensures that well-presented work is published as promptly as possible, consistent with maintaining the overall quality of the journal.

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Authors should consult the Instructions to Authors and the Nomenclature Guidelines for Authors in Vol. 111, January 1994 issue. These Instructions and Guidelines also appear with the journal Index for Volumes 108–110, 1993. A checklist of the essential requirements is summarised in each issue of the journal on the inside of the back cover.

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# INSTRUCTIONS TO AUTHORS

With effect from 1 January 1994

The *British Journal of Pharmacology* welcomes contributions in all fields of pharmacology for publication as full papers or as high priority Special Reports.

Papers should normally be based on new results obtained experimentally and should constitute a significant contribution to pharmacological knowledge. Papers which reassess pharmacological concepts based on earlier results will also be considered as will purely theoretical papers. Papers dealing only with descriptions of methods are acceptable if new principles are involved.

Contributions that have already been published, or accepted or are under consideration for publication, with essentially the same content will not be considered. This restriction does not apply to results published as abstracts of communications, letters to editors, or as contributions to symposia, provided that the submission adds significantly to the information available in the previously published contribution.

Papers are only accepted if accompanied by a Declaration which must be signed by all Authors. This Declaration concerns the originality of the submitted paper and assigns the copyright of all papers accepted for publication to Macmillan Press Ltd. on behalf of the British Pharmacological Society. See pages 6 and 7 for details.

The Journal will not consider papers which describe experiments on animals which do not fall clearly within the current laws governing animal experimentation in the United Kingdom. Authors must make it clear that the procedures they use were as humane as possible and the doses (initial and subsequent) of anaesthetics and analgesics should be clearly stated; the method of assessing anaesthesia, particularly after the administration of skeletal muscle relaxants (neuromuscular blocking drugs), must be well defined. The Society has an Ethics Committee which can be consulted by authors through the Secretaries to the Editorial Board.

When investigations on normal human subjects are reported, evidence of approval by a local Ethics Committee must be given. Papers concerned with clinical trials or investigations of the effects of drugs on patients are not appropriate for this Journal.

Authors are strongly urged to keep their manuscripts as short as they reasonably can. An effective way is to reduce the Discussion and the number of figures to a minimum and to avoid repetition of information that has already been published. Authors should remember that a reader may be influenced by literary style and will appreciate simple but accurate prose.

It is important to note that failure to comply with 'Instructions to Authors' may lead to considerable editorial delays.

## FULL PAPERS

Manuscripts must be typed on one side of A4 paper. Words at the end of lines should not be divided because they may become incorrectly hyphenated. Handwritten characters or symbols (e.g. Greek letters) should be spelled out in full in the margin. Papers in recent issues of the *British Journal of Pharmacology* should be consulted for the general layout of the paper and also for details. The following subsections are used:

1. Title page
2. Summary
3. Introduction
4. Methods
5. Results

6. Discussion and conclusions
7. Acknowledgements
8. List of references
9. Tables
10. Figures and captions

The type must not be smaller than 12 pitch or 10 point. Each section must be typed in **double spacing** with margins of not less than 2.5 cm all round and each page should be numbered. **The original and one copy of the typescript should be supplied.**

## Title page

The title should normally contain **no more than 150 characters** and should not consist of a sentence (statement or conclusion) or be interrogative. A **short running title** containing not more than 50 characters and spaces **is also required**. The title page should include the names of authors and their appropriate addresses. It should be made clear which address relates to which author. Authors' present addresses differing from those at which the work was carried out should be given as footnotes on the title page and references at the appropriate place in the author list by superscript numbers. A footnote may also be used to indicate the author to whom correspondence should be sent. The use of footnotes for any other reason is not allowed. If the address to which proofs should be sent is not that of the first mentioned author, clear instructions should be given in a covering note and not on the title page. The title page should be paginated as page 1 of the paper.

## Summary

The summary will be printed at the beginning of the paper. It should not exceed 5% of the length of the paper and should contain a brief account of the problem, the methods, results and the conclusions. It should be arranged in **numbered and concise paragraphs**. Up to ten **keywords** or phrases of two to three words (including names and terms used in the title) should be displayed at the end of the summary. Keywords will be used to compile the annual index. The quality of the index will thus be determined by the appropriateness of the keywords. These may be selected by reference to the most recent Index of the Journal. Avoid unhelpful or unqualified terms such as 'rat', 'drug' etc.

## Introduction

The introduction should give a short and clear account of the background of the problem and the rationale of the investigation. Only previous work that has a direct bearing on the present problem should be cited.

## Methods

The methods must be described in sufficient detail to allow the experiment to be interpreted and repeated by the reader. However, detailed repetition of methods which have been adequately described previously should be avoided and references given, although a brief outline is often helpful.

Drugs should be listed in a separate paragraph. Their names should be 'approved names' as published previously in British Approved Names, 1990 (HMSO). If a drug has no 'approved name' its chemical name must be used and the rules set out in the current *Handbook for Chemical Society*

*Authors* (London, Chemical Society) observed, or its structural formula given. Cumbersome chemical names should be suitably abbreviated for later reference in the paper.

The doses of drugs should be given as unit weight per body weight, e.g. mmol kg<sup>-1</sup> or mg kg<sup>-1</sup>; concentrations should be given in terms of molarity, e.g. nM or  $\mu$ M.

Reference should be made to any statistical analyses that have been performed on the results in order, for example, to determine the significance of differences between results obtained under different conditions.

## Results

The description of the experimental results should be succinct but, nevertheless, in sufficient detail to allow the experiments to be repeated by others. Typical single experiments may be presented with a clear statement that *n* number of similar experiments had similar results. Where appropriate, however, the mean results with confidence limits or with standard errors of the means and the number of observations should be given. Statistical tests of significance should be performed where appropriate. The results of such tests should be stated as the numerical value of the probability (*P*) that is calculated, with any necessary clarification (e.g. one-tail or two-tail test).

Every effort should be made to avoid unnecessary repetition of data in the text, tables and figures. Conclusions and theoretical considerations should not be elaborated in this section.

## Discussion

The purpose of the discussion is to present a brief and pertinent interpretation of the results against the background of existing knowledge. Any assumptions on which conclusions are based must be stated clearly. A mere recapitulation of the results is not acceptable. A review-like treatment, which reduces the impact on the reader, should also be avoided. The main conclusion should be conveyed in a final paragraph.

## Acknowledgements

Acknowledgements should be brief but should include reference to sources of support. Sources of drugs not widely available commercially should be acknowledged.

## References

In the text, references to other work should take the form: (Bolton & Kitamura, 1983) or, 'Bolton & Kitamura (1983) showed that . . .'. If there are more than two authors, the first author's name should be given followed by *et al.* (Bülbring *et al.*, 1981).

References to 'unpublished observations' or 'personal communications' should be mentioned in the text only, and not included in the list of references. Papers which have been **submitted and accepted** for publication, should be included in the list of references with the names of the periodicals and 'in press'. A **photocopy should normally be submitted with the manuscript**. If this is not possible, authors should indicate whether the work cited is an abstract or a full paper. **Papers in preparation or which have been submitted but not yet finally accepted for publication must not be included in the list of references.**

The reference list at the end of the manuscript must be arranged alphabetically according to the surname of the first author. When the surnames of authors are identical, the alphabetical order of their initials takes precedence over the year of publication. The **AUTHORS'** names are followed by the year of publication in brackets. If more than one paper by the same authors in one year are cited, a, b, c, etc. are placed after the year of publication, both in the text and in

the list of references. The title of the article is given in full, followed by the *abbreviated title of the periodical*, volume number and first and last page numbers. The abbreviations used for periodicals are those of the most recent edition of the International List of Periodical Title Word Abbreviations. References to articles in books should consist of names of authors, year of publication, title of article followed by the *title of the book*, the editors, volume numbers, if any, and page numbers, the place of publication and the names of the publishers. For example:

BOLTON, T.B. & KITAMURA, K. (1983). Evidence that ionic channels associated with the muscarinic receptor of smooth muscle may admit calcium. *Br. J. Pharmacol.*, **78**, 405–416.  
BRADING, A.F. (1981). Ionic distribution and mechanisms of transmembrane ion movements in smooth muscle. In *Smooth Muscle: An Assessment of Current Knowledge*. ed. Bülbring, E., Brading, A.F., Jones, A.W. & Tomita, T. pp. 65–92. London: Edward Arnold.

## Tables

Each table should be given on a separate page, paginated as part of the paper. Tables should be numbered consecutively with arabic numerals and the number should be followed by a brief descriptive caption, occupying not more than two lines, at the head of the table. The proportions of the text area should be borne in mind when designing the layout of tables. For the sake of clarity, tables should not have more than 120 characters to a line, with spaces between columns counted as four characters. The absolute maximum is 180 characters to a line. Each column should have a heading and the units of measurement should be given in parentheses in the heading. Except in special circumstances, tables should be self-explanatory; the necessary descriptions should be at the bottom of the table.































## Figures

To avoid unnecessary Figures, particularly those requiring half-tone reproduction, only critical points of the text should be illustrated. If coloured Figures are desired, the Authors should discuss their requirements with the Secretaries, preferably before submission.

Please note that unsatisfactory Figures will be returned to the Author for revision. The Journal reserves the right to reject a manuscript if the Figures are unacceptable.

## Submission Requirements

- The Authors' names and the Figure number must be indicated lightly *in pencil* on the back of each Figure; if necessary, use an adhesive label to avoid damage to the Figure.
- Each* copy of the manuscript must be accompanied by one set of labelled Figures (i.e. complete with lettering and numbering, arrows, etc.). An original set and one high quality photocopy will suffice.
- Another original set of Figures identical in size but without any letters or numbers must also be supplied for the use of the Publisher.** Arrows and event marks on experimental records may be retained, provided they are larger than 3 mm wide. The Publisher will choose the correct style of typeface of an appropriate size to suit the final size of the Figure on the printed page.
- No submitted Figure should exceed 210 × 297 mm (A4).
- Each Figure must be accompanied by a legend; each legend should be typed on a *separate* sheet of paper and paginated as part of the manuscript. Legends should explain the Figures in sufficient detail that, whenever possible, they can be understood without reference to the text.

Line width (axes)	Line width (graphs)	Symbol size	Figure will reduce to this percentage of the original size
		  	100 (No reduction)
		  	80
		  	70
		  	60
		  	50
		  	40

Line Figures

It is best to submit an original drawing (black ink on heavy white paper or faint blue graph paper) which has been prepared to conform with the style and convention of the Journal, because redrawing is expensive. The original drawing should be lettered in pencil and should be larger (up to two times as large) than the intended size in the Journal.

It is important that the printed symbols and lines should retain their clarity. To achieve this the symbols and lines in original drawings should be sharply defined and of an even density and breadth. When graphs are generated by computer, lines must not show noticeable stepping. Heavier (broader) lines should be used for curves than for the axes of graphs. The table above illustrates line widths and symbol sizes to be used on a figure and the appropriate reductions in the final printed form.

Symbols should be chosen from the following set

○ ● □ ■ △ ▲ ▽ ▼ ◇ ◆ + ×

The preferred order to shading of histogram columns is: open (clear), closed (solid), cross-hatched, heavily stippled and other (if required).

The explanation of the symbols and column headings should be given in the Figure legend and not as a key in the Figure itself.

Line Figures should normally have only left and bottom axes; box-style Figures and those using 3-dimensions are not acceptable.

Where the Figure is a composite of more than one graph, experimental record, etc., particular care is needed to minimise the spaces between each part, without overcrowding the entire Figure.

Figure 1 illustrates a simple properly-drawn graph in its original form (a) and in its reduced form (b) as it would appear in the Journal.

Photographs and photomicrographs

These should be submitted, twice as large as their intended published size, as good quality prints of high contrast especially where traces and records are illustrated. The originals must not contain arrows, lettering or numbering; these must be accurately located on a duplicate print (or photocopy). When submitting half-tone illustrations for publication authors should remember that it is not possible to reproduce Figures to a finer quality than the original photographs/photomicrographs provided. Critical areas

should be marked on a second copy or on an overlay, so that the Printer can choose the correct exposure. Maximum trim areas should be marked on a second copy of the photograph/photomicrograph or on a tracing overlay, i.e. authors should show any parts of the photographs that could be excluded from the finished half-tone illustration. A calibration bar must be provided on the photomicrograph to ensure that, if the Printer reduces the plate, the scale is reduced in the correct proportion.

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Two sets of page proofs will be supplied, one of which should be retained by the authors. The other should be corrected immediately and returned to the Publisher. Corrections should be kept to a minimum.

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The purpose of *Special Reports*, which have superseded 'Short Communications', is to provide rapid publication for new and important results which the Editorial Board considers are likely to be of special pharmacological significance. *Special Reports* will have publication priority over all other material and so authors are asked to consider carefully the status of their work before submission.

In order to speed publication there is normally no revision allowed beyond very minor typographical or grammatical corrections. If significant revision is required, the Board may either invite rapid re-submission or, more probably, propose that it be re-written as a Full Paper and be re-submitted for consideration. In order to reduce delays, proofs of *Special Reports* will be sent to authors but **essential corrections must reach the Publisher within 48 hours of receipt**. Authors should ensure that their submitted material conforms exactly to the following requirements.

*Special Reports* should normally occupy no more than two printed pages of the Journal; two illustrations (Figures or Tables, with legends) are permitted. As a guideline, with type face of 12 pitch and double-line spacing, a page of A4 paper could contain about 400 words. The absolute maximum length of the *Special Report* is 1700 words. For each Figure or Table, please deduct 200 words. The manuscript should comprise a Title page, a Summary consisting of a single short paragraph, followed by keywords (maximum of 10), Introduction, Methods, Results, Discussion and References (maximum of 10). In all other respects, the requirements are the same as for Full Papers.

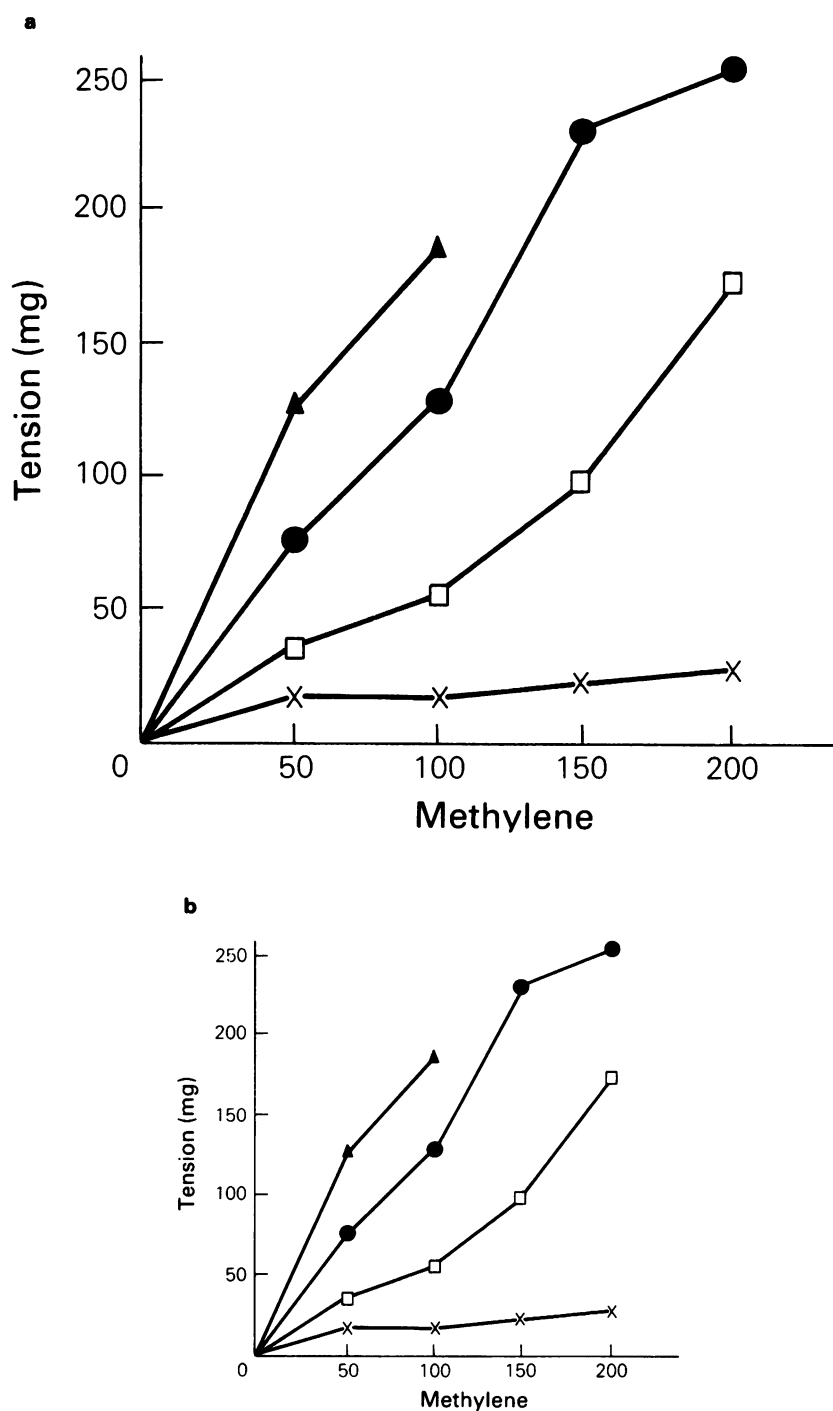


Figure 1 (a) Artwork as drawn. (b) Artwork reduced to 60 per cent of its original size for publication in the Journal.

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## ABBREVIATIONS AND SYMBOLS

### Physico-chemical quantities

The *British Journal of Pharmacology* uses the SI symbols for units. The following prefixed for multiples of units should be used:

Multiplier	Prefix	Symbol
$10^{-1}$	deci	d
$10^{-2}$	centi	c
$10^{-3}$	milli	m
$10^{-6}$	micro	$\mu$
$10^{-9}$	nano	n
$10^{-12}$	pico	p
$10^{-15}$	femto	f
$10^{-18}$	atto	a

Multiplier	Prefix	Symbol
$10^3$	kilo	k
$10^6$	mega	M
$10^9$	giga	G
$10^{12}$	tera	T

Thus, micron =  $\mu\text{m}$ ; ångstrom = 0.1 nm. Mixed prefixes are not permissible, thus  $\text{m}\mu\text{g}$  should be ng. The symbols d ( $10^{-1}$ ) and c ( $10^{-2}$ ) should be restricted to those occasions on which there is a strongly felt need for them (e.g. cm).

### Use of the solidus

The solidus should be avoided as far as possible and the negative index substituted, e.g.  $\text{mg kg}^{-1}$  rather than  $\text{mg/kg}$ ;  $\text{pmol mm}^{-2} \text{ min}^{-1}$  rather than  $\text{pmol/mm}^2/\text{min}$ .

## SYMBOLS

Symbols denoting physical quantities are usually printed as italic capitals (indicated by single underline in typescript). A dash over the symbol indicates a mean value; a dot over the symbol indicates a time derivative. Suffixes may be used to indicate 'where' and 'what'. They are printed as inferiors on the line. Multiple suffixes should be avoided if a simpler symbol adequately defined is unambiguous, but if necessary should be separated by commas e.g.  $P_{A, \text{CO}_2}$  denotes partial pressure of  $\text{CO}_2$  alveolar air.

## CHEMICAL AND BIOLOGICAL ABBREVIATIONS

Authors should also consult *Nomenclature Guidelines for Authors* contained in this issue of the Journal. The abbreviations listed may be used without definition *except* those for chemicals, drugs and enzymes which must be written in full at first mention in the title, summary and again in the text. At first mention they should be followed by the abbreviation in brackets. Subsequently, the abbreviation alone may be used.

The list of abbreviations for chemical, drug and enzyme names is clearly not comprehensive and includes only a few commonly used examples.

Use abbreviations sparingly as extensive use can make the text hard to follow.

**Physico-chemical quantities**

<i>Quantity</i>	<i>Preferred unit</i>	<i>Symbol</i>
Amount (of substance)	mole	mol
Capacitance	farad	F
Concentration	moles per litre	M or mol l <sup>-1</sup>
Current	ampere	A
Electrical conductance	siemens	S
Electromotive force	volt	V
Flow (blood or other liquid)	litres per second (or min)	l s <sup>-1</sup> or l min <sup>-1</sup>
Flow (air or other gas)	litres per second (or min)	l s <sup>-1</sup> or l min <sup>-1</sup>
Force	newton	N
Frequency of regular event	hertz	Hz
Length	metre	m
Mass	gram	g
Power	watt	W
Pressure (or partial pressure)	pascal*	Pa
Radioactivity	becquerel or curie	Bq (60 d.p.m.) or Ci (3.7 × 10 <sup>10</sup> Bq)
Resistance (electrical)	ohm	Ω
Temperature	degree celsius	°C
Time	second (preferred)	s
	minute	min
	hour	h
Volume (blood or other liquid)	litre	l
Volume (air or other gas)	litre	l
Work	joule	J

\* mm of mercury (mmHg) are allowed if conventional, and if mercury manometer is used for calibration.

**Chemical and biological abbreviations**

acetylcholine	ACh	dextro-(absolute configuration)	D-
acetylcholinesterase	AChE	dextro-(optical rotation)	(+)-
adenosine 3':5'-cyclic monophosphate	cyclic AMP	diameter	diam.
adenosine 5'-phosphate	AMP	diameter, inside	i.d.
adenosine triphosphatase	ATPase	diameter, outside	o.d.
γ-aminobutyric acid	GABA	diffusion coefficient	<i>D</i>
analysis of variants	F	3,4-dihydroxyphenylalanine	DOPA
adrenaline	Ad	3,4-dihydroxyphenylethylamine	dopamine
analytical standard of reagent purity	A.R.	direct current	d.c.
anhydrous	anhyd.	disintegration per minute	d.p.m.
approximate(ly)	approx.	dissociation constant	<i>K<sub>D</sub></i>
approximately equals	≈	dissociation constant, negative logarithm of	p <i>K</i>
aqueous	aq.	distilled	dist.
arg-vasopressin	AVP	dry ice	solid CO <sub>2</sub>
boiling point	b.p.	edition	edn
bovine serum albumin	BSA	editor(s)	ed.
cardiovascular system	CVS	effective concentration	EC <sub>50</sub>
catechol- <i>O</i> -methyl transferase	COMT	effective dose, median	ED <sub>50</sub>
central nervous system	CNS	electrocardiogram	ECG
cerebrospinal fluid	CSF	electrocorticogram	ECoG
chi-squared (statistics)	χ <sup>2</sup>	electroconvulsive therapy	ECT
clearance	<i>c</i>	electroencephalogram	EEG
coenzyme A	CoA	electromyogram	EMG
concentrated	conc.	electron spin resonance	e.s.r.
correlation coefficient	<i>r</i>	endothelial-derived relaxing factor	EDRF
cubic	cu.	epithelial-derived relaxing factor	EpDRF
degree of freedom (statistics)	d.f.	equilibrium constant	<i>K</i>
deoxyribonucleic acid	DNA	equivalent (general use)	equiv.
deoxyribonuclease	DNase	erythrocyte	r.b.c.
		erythrocyte sedimentation rate	ESR
		ethylenediaminetetracetic acid	EDTA
		excitatory postsynaptic potential	e.p.s.p.
		experiment	expt
		experimental	exptl

fatty acids, nonesterified	NEFA	page/pages	p./pp.
figure(s) (with reference number)	Figure(s)	para-	<i>p</i> -
figure (diagram)	figure	paragraph	para. or ¶
gas-liquid chromatography	g.l.c.	parts per million	p.p.m.
glomerular filtration rate	GFR	per cent	%
haemoglobin	Hb	platelet activating factor	PAF
half-life	$t_{1/2}$	posterior	post.
high-frequency	h.f.	probability (significance level in a statistical test)	<i>P</i>
high performance liquid chromatography	h.p.l.c.	radioimmunoassay	RIA
human serum albumin	HSA	rectus (configuration by the sequence rule)	<b>R</b>
hydrogen-ion concentration	[H <sup>+</sup> ]	red blood corpuscle	RBC
hydrogen-ion activity, negative logarithm of (hydrogen-ion exponent)	pH	relative band speed to front (chromatography)	$R_F$
6-hydroxydopamine	6-OHDA	relative molecular mass	$M_r$
N-[2-Hydroxyethyl]piperazine-N'-[2-ethanesulphonic acid]	Hepes	relative retention time (gas chromatography)	$t_r$
5-hydroxyindoleacetic acid	5-HIAA	renal plasma flow	RPF
5-hydroxytryptamine	5-HT	resistance (respiratory)	<i>R</i>
immunoglobulins	IgA, IgD, IgE, IgG, IgM	respiratory conductance	Sgaw
inhibitor constant	$K_i$	revolutions per minute	r.p.m.
inhibitory concentration	IC <sub>50</sub>	ribonucleic acid	RNA
inhibitory postsynaptic potential	i.p.s.p.	section	§
insoluble	insol.	sedimentation coefficient (ultracentrifugation)	<i>s</i>
international unit	iu	sinister (configuration by the sequence rule)	<b>S</b>
intra-arterial	i.a.	soluble	sol.
intracellular fluid	ICF	solution	soln.
intradermal	i.d.	Spearman rank coefficient	$r_s$
intramuscular	i.m.	standard deviation (of observed sample)	s.d.
intraperitoneal	i.p.	standard error (of estimate mean value)	s.e.mean
intracerebroventricular	i.c.v.	standard error (of sampling)	s.e.
intravenous	i.v.	standard temperature and pressure	STP
isotope (atomic mass) e.g. iodine-131	<sup>131</sup> I	subcutaneous	s.c.
isotopically substituted compounds e.g.	[ <sup>14</sup> C]-ethanol	sum (statistical): of hypothetical population of observed sample	$\Sigma$ S or $\Sigma$
laevo-(absolute configuration)	L-	temperature	temp.
laevo-(optical rotation)	(-)-	thin layer chromatography	t.l.c.
lethal dose, median	LD <sub>50</sub>	time, clock – 24 h clock used e.g. 18 h 30 min	<i>t</i>
leukotriene	LT	time constant	$\tau$
logarithm to base e	log <sub>e</sub> or ln	2-amino-2-hydroxymethyl-propan-1,3-diol	Tris
logarithm to base 10	log <sub>10</sub>	ultraviolet	u.v.
maximum	max.	unit	u
mean arterial pressure	MAP	vacuum	vac.
mean value of (statistics)	$\bar{x}$	valency	e.g. Fe <sup>2+</sup> ; Fe(II)
melting point	m.p.		protoporphyrin
meta	<i>m</i> -		
Michaelis constant	$K_M$		
minimum	min.		
mobility (electrophoresis)	<i>m</i>		
monoamine oxidase	MAO		
noradrenaline	NA		
nuclear magnetic resonance	n.m.r.		
number	no. or No.		
number of observations (statistics)	<i>n</i>	volume by volume	v/v
ortho	<i>o</i> -	wavelength	$\lambda$
packed cell volume	PCV	weight	wt.
		weight by volume	w/v

# NOMENCLATURE GUIDELINES FOR AUTHORS

With effect from 1 January 1994

The Nomenclature Working Party (NWP) of the Editorial Board of the *British Journal of Pharmacology* has consulted many acknowledged experts in an effort to clarify and standardize receptor and other nomenclature systems for use by Editors until the recommendations of the IUPHAR Commission on Receptor Nomenclature and Classification are made known.

NWP is unanimous in its view that, with rare exceptions, the Journal should use spellings, names and abbreviations that have been chosen by international bodies or specialist groups specially convened for the purpose.

For receptor nomenclature, with few exceptions, the Journal generally follows the guidelines laid down in the current Trends in Pharmacological Sciences (TiPS) Receptor Nomenclature Supplement.

## 1 Definition of receptors and subtypes

Receptors and their subtypes are defined in relation to structural information where this is available and on the basis of functional studies. With the latter, they are defined in terms of the relative potencies of agonists and selectivities of antagonists and by the binding of such ligands, without reference to second (or other) messenger systems.

## 2 Format of receptor names

It was agreed that, until the IUPHAR Commission on Receptor Nomenclature and Classification make their recommendations:

- (a) Editors will permit with reluctance new nomenclature systems in papers accepted for publication if and only if there are compelling reasons to introduce a new terminology (or modify an accepted one). The criteria upon which the new receptor type or subtype are defined must be given, together with adequate explanations of the relationship between the previous nomenclature (fully referenced) and the proposed one.

N.B. The new nomenclature should not appear in the Title, Short Title or Keywords, unless qualified by the adjective putative (e.g. . . . mediated by the putative  $\alpha_{2A}$ -adrenoceptor).

- (b) Only well-established and universally accepted subtype names (e.g. muscarinic and nicotinic acetylcholine receptors;  $\alpha$ - and  $\beta$ -adrenoceptors) will be acceptable without any reference to the originator of these terms. In cases of controversy concerning further subdivision of the subtype, full referencing must be given.
- (c) Receptor subtypes should be designated by means of a subscript numeral or capital letter. Some double subscripts (i.e. numerical plus letter) are acceptable.

## 3 Types of receptor

The NWP accepts that there are additional receptors to those described below which can be considered as well established. In many cases, however, their existence has been confirmed only in cloning studies and it is as yet unclear how they relate to similar subdivisions proposed on the grounds of differences in agonist and antagonist potencies in various tissues.

- (a) *Acetylcholine receptors* The two principal subfamilies are muscarinic and nicotinic acetylcholine receptors

(the abbreviations muscarinic AChRs and nicotinic AChRs are acceptable, but not mAChR or nAChR, which may be confused with muscle and neuronal subtypes).

*Muscarinic acetylcholine receptors* The principle subtypes are M<sub>1</sub>, M<sub>2</sub>, M<sub>3</sub> and M<sub>4</sub>.

*Nicotinic acetylcholine receptors* The principal subgroups are muscle and neuronal nicotinic acetylcholine receptors.

- (b) *Adenosine receptors* Known also as P<sub>1</sub> purinoceptors (see purinoceptors, 3t).
- (c) *Adrenoceptors* The principal subtypes are  $\alpha_1$ -,  $\alpha_2$ -,  $\beta_1$ -,  $\beta_2$ - and  $\beta_3$ -adrenoceptors. Additional subtypes must be fully referenced.
- (d) *Angiotensin receptors* At present only the AT<sub>1</sub> receptor is recognised. The AT<sub>2</sub> binding site should be fully referenced.
- (e) *Bombesin receptors* Proposed subtypes such as BB<sub>1</sub>, BB<sub>2</sub> may be used but must be fully referenced.
- (f) *Bradykinin receptors* The principle subtypes are B<sub>1</sub> and B<sub>2</sub> receptors. Additional subtypes must be fully referenced.
- (g) *Calcitonin gene-related peptide (CGRP) receptors* Proposed CGRP receptor subtypes must be fully referenced.
- (h) *Cholecystokinin (CCK) receptors* The principal subtypes are CCK<sub>A</sub> and CCK<sub>B</sub> receptors.
- (i) *Dopamine receptors* D<sub>1</sub> and D<sub>2</sub> dopamine receptors are recognised. Other subtypes must be fully referenced.
- (j) *Endothelin receptors* The principle subtypes are ET<sub>A</sub> and ET<sub>B</sub> receptors.
- (k) *Excitatory amino acid receptors* Three ionotropic subtypes are recognised and named: (1) NMDA (N-methyl-D-aspartate) receptors; (2) AMPA receptors, and (3) kainate receptors. Subtypes of metabotropic receptors must be fully referenced.
- (l)  *$\gamma$ -Aminobutyric acid (GABA) receptors* The principal subtypes are GABA<sub>A</sub> and GABA<sub>B</sub> receptors. Regulatory sites on the GABA<sub>A</sub> receptor should be referenced.
- (m) *Histamine receptors* The principle subtypes are H<sub>1</sub>, H<sub>2</sub> and H<sub>3</sub> receptors.
- (n) *5-Hydroxytryptamine (5-HT) receptors* The principle subtypes are 5-HT<sub>1</sub>, 5-HT<sub>2</sub>, 5-HT<sub>3</sub> and 5-HT<sub>4</sub>. Further subdivision, e.g. 5-HT<sub>1Da</sub>, 5-HT<sub>2C</sub>, require full referencing.
- (o) *Leukotriene receptors* When first mentioned, the style leukotriene (LT) receptor should be used, thereafter LT receptor. Receptors should be designated according to the leukotriene that selectively or preferentially binds to them. All leukotriene receptor subtypes should be fully referenced.
- (p) *Neuropeptide Y (NPY) receptors* Proposed subtypes should be fully referenced.

- (q) *Opioid receptors* The principal subtypes are  $\mu$ -,  $\delta$ - and  $\kappa$ -opioid receptors. Other proposed subtypes should be fully referenced.
- (r) *Oxytocin receptors* (see Vasopressin and oxytocin receptors).
- (s) *Prostanoid receptors* The principal types are DP, EP, FP, IP and TP receptors. When first mentioned, the style prostanoid (XP) receptor should be used, thereafter XP receptor (where X denotes the type). Proposed subtypes should be referred to as  $XP_n$ , (e.g.  $EP_1$ ,  $EP_2$ ) and referenced.
- (t) *Purinoceptors* The principal subtypes are  $P_1$  and  $P_2$  receptors. Subdivision of  $P_1$  into  $A_1$  and  $A_2$  types and of  $P_2$  into  $P_{2X}$  and  $P_{2Y}$  are permitted. Other subtypes e.g.  $P_{2T}$ ,  $P_{2Z}$  should be fully referenced.
- (u) *Somatostatin (SS) receptors* Proposed subtypes should be fully referenced.
- (v) *Tachykinin receptors* The term tachykinin is preferred to neurokinin. The principle subtypes are  $NK_1$ ,  $NK_2$  and  $NK_3$  receptors.
- (w) *Vasoactive intestinal peptide (VIP) receptors* Proposed subtypes should be fully referenced.
- (x) *Vasopressin and oxytocin receptors* The principle subtypes are  $V_{1A}$ ,  $V_{1B}$ ,  $V_2$  and OT receptors;  $V_{1A}$  was formerly  $V_1$ , and  $V_{1B}$  formerly  $V_3$ .

#### 4 Naming of nerve fibres

Many nerve fibres are now known to release more than one transmitter, and future work may show that this is in fact the general rule. In that case, the concept of the same transmitter being released either at different developmental stages or under various experimental conditions would no longer hold, and single adjectives that imply this (e.g. cholinergic, noradrenergic) would become inappropriate when applied to nerve fibres, as distinct from transmitter functions. For the present, those nerve fibres that are known to function by releasing more than one identified transmitter may be described accordingly; for example, noradrenergic-purinerbic, cholinergic-peptidergic (in alphabetical order, the order implying no priority of function). N.B. The suffix 'ergic' should continue to be applied only to nerve fibres and to the transmission event, in accordance with Dale's intentions. For example, 'cholinergic' indicates that the nerve fibre, or the transmission, functions under particular conditions through the release of a choline-like substance. The suffix should not be used loosely to mean 'pertaining to'. Hence, for example, the expression 'cholinergic receptor' (rather than acetylcholine receptor) is an inappropriate use of the term. Transmission events involving nitric oxide may be referred to as *nitroergic*. However, *nitroergic* may be used to describe axons only when there is sufficient evidence that nitric oxide is released from them as a neurotransmitter.

- (a) *Catecholamine releasing nerve fibres* The adjective to be applied to nerve fibres that release dopamine as a transmitter is dopaminergic (not DAergic).

Nerve fibres that are known to function by releasing noradrenaline are to be described as noradrenergic. The term adrenergic should be reserved for either a nerve fibre that functions by releasing a catecholamine, the identity of which is unknown, or one known to release adrenaline.

- (b) *Some other adjectives describing nerve fibre function* NANC is an acceptable abbreviation of non-adrenergic, non-cholinergic for peripheral efferent nerve fibres when the identity of the transmitter(s) is unknown other than the fact that neither (nor)-

adrenaline nor acetylcholine is involved. It should be defined when introduced. NANCergic, e-NANC (or NANC-e) and i-NANC (or NANC-i) are not acceptable terms.

Glutamatergic, not glutaminergic, should be used to describe nerve fibres releasing glutamate. In referring to peptide-releasing nerve fibres (e.g. those that may release substance P or vasoactive intestinal peptide) the nomenclature to be used is peptidergic (X), e.g. peptidergic (SP), peptidergic (VIP), not SPergic, VIPergic.

The terms 5-hydroxytryptamine (5-HT) and 5-hydroxytryptaminergic (i.e. nerves releasing 5-hydroxytryptamine) are preferred to those of serotonin and serotonergic. The term 5-HTergic is not acceptable, except to avoid frequent repetition of 5-hydroxytryptaminergic.

Likewise, the terms purinerbic (ATP) and purinerbic (adenosine) are preferred.

#### 5 Terms used to describe agonist and antagonist action

The following terms can be used without full definition. Where appropriate, other terms may be used but must be accompanied by a full definition.

##### Terms used to describe affinity and potency

- (a)  $EC_{50}$  The concentration of an agonist that produces 50% of the maximal response for that agonist *in vitro*. The agonist may be stimulatory or inhibitory. When  $EC_{50}$  values are determined in the presence of other agonists or antagonists the concentration of the latter should be stated. Related terms, e.g.  $EC_{25}$ , are acceptable if accompanied by a full definition.
- (b)  $IC_{50}$  This term may be used in the following ways: (i) The concentration of antagonist that reduces the response to a sub-maximal concentration of agonist by 50%; the concentration of agonist should be stated. (ii) The concentration of competing agonist or antagonist that inhibits the binding of a radioligand by 50%; the concentration of radioligand should be stated.
- (c)  $ED_{50}$  This term may be used in the following ways: (i) The dose of an agonist or antagonist that produces 50% of the maximal possible effect of that agonist or antagonist *in vitro*. (ii) The dose of drug that produces the effect under investigation in 50% of the population.
- (d)  $K_A$  The equilibrium dissociation constant ( $\text{mol l}^{-1}$ ) for an agonist determined in a functional study, e.g. by Furchgott analysis. The reciprocal is called the affinity constant or association constant.
- (e)  $K_B$  The equilibrium dissociation constant ( $\text{mol l}^{-1}$ ) for an antagonist determined in a functional study using the Gaddum equation or a Schild plot in which the slope has been constrained to unity when not significantly different from this value. The reciprocal is called the affinity constant or association constant.
- (f)  $K_D$  The equilibrium dissociation constant ( $\text{mol l}^{-1}$ ) for a radiolabelled agonist or antagonist determined in a radioligand binding study by saturation analysis. The reciprocal is called the affinity constant or association constant.
- (g)  $K_I$  The equilibrium dissociation constant ( $\text{mol l}^{-1}$ ) for a competing agonist or antagonist determined in a radioligand binding assay. It can be calculated from the  $IC_{50}$  value using the Cheng-Prusoff equation when the Hill coefficients of the radioligand and competing ligand are not significantly different from unity. If the

Hill coefficient of the radioligand or competing ligand is significantly different from unity,  $IC_{50}$  values and the concentration of radioligand should be given.

- (h)  $n_H$  The Hill coefficient.
- (i)  $pA_2$  The negative logarithm to base 10 of the concentration of an antagonist that makes it necessary to double the concentration of agonist needed to elicit a given submaximal response. Note that the definition is empirical and does not pre-suppose the mechanism of antagonism. The  $pA_2$  value can be determined from a Schild plot with unconstrained slopes, but only provides an estimate of the  $pK_B$  if the antagonism has been shown to meet all of the criteria of competition.
- (j)  $pD_2$  The negative logarithm to base 10 of the  $EC_{50}$ .
- (k)  $pIC_{50}$  The negative logarithm to base 10 of the  $IC_{50}$ .
- (l)  $pK_A$  The negative logarithm to base 10 of  $K_A$ .
- (m)  $pK_B$  The negative logarithm to base 10 of  $K_B$ .
- (n)  $pK_D$  The negative logarithm to base 10 of  $K_D$ .
- (o)  $pK_I$  The negative logarithm to base 10 of  $K_I$ .

#### *Terms used to describe the mode of antagonism*

- (a) *Competitive antagonism* Used to describe antagonists that bind reversibly to the agonist binding site.
- (b) *Competitive irreversible antagonism* Used to describe antagonists that bind irreversibly to the agonist binding site.
- (c) *Non-competitive* Used to describe antagonists that bind reversibly to a distinct (allotopic) site.
- (d) *Non-competitive irreversible antagonism* Used to describe antagonists that bind irreversibly to a distinct (allotopic) site.

### 6 Enzymes

The IUB Enzyme Commission (EC) number and full name (Enzyme Nomenclature 1984, Academic Press, New York and London) must be quoted when first mentioned in text. Subsequently the accepted trivial name is used. Trivial names may be used in the title.

### 7 Other nomenclature requirements

- (a) *Racemates* Authors must state unambiguously in the Methods section of papers which isomers were used, e.g. (+)- or (–)-propranolol, and must bring to the attention of the reader the composite character of drugs that are mixtures of stereoisomers. Furthermore, the implications of the composite nature of such drugs studied for the interpretation of the data measured and the conclusions drawn must be made explicit. Note that the terms d- or l- for dextro- and

laevo-rotatory are now obsolete, and the prefixes (+)- or (–)- respectively should be used. Capital D and L refer to the absolute configurations and of course remain acceptable when appropriate.

- (b) *Platelet activating factor (acetyl-glycerol-ether-phosphorylcholine)* The acronym to be used is PAF (not AGEPC, Paf, Paf-acether or other variant). The alkyl chain should be specified for synthetic PAF e.g.  $C_{16}$ -PAF.
- (c) *Ligands for NMDA receptors* N-methyl-D-aspartate (NMDA) and N-methyl-DL-aspartate (NMDLA) are to be given in full when introduced in the text.
- (d) *Purines* This term should not be used as a synonym for purine nucleotides or nucleosides.
- (e) *Eicosanoids* The system of nomenclature to be used for eicosanoids is that published in *Methods in Enzymology*, (1990), **187**, 1–9. This scheme incorporates recent changes in the style of abbreviation of hydroperoxy-, epoxy- and oxo-unsaturated fatty acids e.g. 12(S)-hydroperoxyeicosatetraenoic acid which was formerly abbreviated as 12(S)-HPETE now becomes 12(S)-HpETE. In manuscripts, the first use of the full chemical name of any eicosanoid should indicate double bond geometry when this is known.
- (f) *Peptide nomenclature* The preferred style is capital letters to designate the first letter of the word. Otherwise, upper and lower case letters should be used (e.g. Enk-IR, enkephalin-like immunoreactivity). When numbers are used these should be placed after a hyphen on the same line as the abbreviation, e.g. ET-1.
- (g) *Cell lines* Cell type, sources and originating species need to be defined.
- (h) *Molecular biology* Abbreviations pertaining to molecular biological techniques need to be defined or presented in such a way that they can be recognised by the non-specialist e.g. the oligonucleotide sequence, TAGC.
- (i) *Tension* Tension is force and should be calibrated in newtons (1 newton =  $1\text{ kg ms}^{-1}$ ) or in kg weight, g weight, or mg weight etc. It should not be calibrated in units of mass (e.g. kg). (See Miller D.J. in *Trends Pharmacol. Sci.* 1988, 9, 124–5).
- (j) *Ions* When referring to ions, the charge should be indicated. e.g.  $\text{Na}^+$ ,  $\text{Ca}^{2+}$ ,  $2\text{Na}^+/\text{Ca}^{2+}$  exchange, etc.
- (k) *Inhibitors of nitric oxide synthase* The most commonly used and currently accepted abbreviation for  $\text{N}^G$ -nitro-L-arginine and  $\text{N}^G$ -nitro-L-arginine methyl ester are L-NOARG and L-NAME. Unless alternative international agreement is reached, these will be the abbreviations accepted by the journal.

## INDEX TO VOLUMES 108, 109 AND 110

## AUTHOR INDEX

## A

- Abassi, Z.A., Golomb, E., Bridenbaugh, R. and Keiser, H.R. Metabolism of endothelin-1 and big endothelin-1 by recombinant neutral endopeptidase EC.3.4.24.11, **109**, 1024
- Abdel-Hamid, K. *see* Fletcher, E.J., **109**, 1196
- Abdulnour, E. *see* Bkaily, G., **110**, 519
- Abe, E., Murai, S., Masuda, Y., Saito, H. and Itoh, T.  $\alpha$ -Sialyl cholesterol reverses AF64A-induced deficit in passive avoidance response and depletion of hippocampal acetylcholine in mice, **108**, 387
- Abe, K. *see* Nakazawa, K., **109**, 137
- Aber, G.M. *see* Harding, P., **108**, 327
- Abiko, Y. *see* Yazawa, K., **109**, 142
- Aboud, R., Shafii, M. and Docherty, J.R. Investigation of the subtypes of  $\alpha_1$ -adrenoceptor mediating contractions of rat aorta, vas deferens and spleen, **109**, 80
- Adam, A. *see* Chahine, R., **108**, 318
- Adeagbo, A.S.O. and Triggle, C.R. Interactions of nitric oxide synthase inhibitors and dexamethasone with  $\alpha$ -adrenoceptor-mediated responses in rat aorta, **109**, 495
- Advenier, C. *see* Martin, C.A.E., **110**, 1311
- Advenier, C. *see* Qian, Y., **109**, 774
- Agata, N., Tanaka, H. and Shigenobu, K. Possible action of cyclopiazonic acid on myocardial sarcoplasmic reticulum: inotropic effects on neonatal and adult rat heart, **108**, 571
- Agneter, E., Drobny, H. and Singer, E.A. Central  $\alpha_2$ -autoreceptors: agonist dissociation constants and recovery after irreversible inactivation, **108**, 370
- Agoston, S. *see* Henning, R.H., **108**, 717
- Ahluwalia, A. and Flower, R.J. Investigations into the mechanism of vasoconstrictor action of the topical steroid betamethasone-17-valerate in the rat, **108**, 544
- Akaike, N., Uneyama, H., Kawa, K. and Yamashita, Y. Existence of rolipram-sensitive phosphodiesterase in rat megakaryocyte, **109**, 1020
- Akaike, N. *see* Inomata, N., **108**, 111
- Akaike, N. *see* Uneyama, H., **109**, 459
- Akaike, N. *see* Yakushiji, T., **109**, 819
- Akata, T., Kodama, K. and Takahashi, S. Effects of heparin on the vasodilator action of protamine in the rabbit mesenteric artery, **109**, 1247
- Al-Damluji, S., Krsmanovic, L.Z. and Catt, K.J. High-affinity uptake of noradrenaline in postsynaptic neurones, **109**, 299
- Ala-Uotila, S. *see* Svensson, S.P.S., **110**, 54
- Albillos, A. *see* Garcez-Do-Carmo, L., **110**, 1149
- Alborch, E. *see* Salom, J.B., **109**, 826
- Albus, U. *see* Scholz, W., **109**, 562
- Alesiani, M. *see* Lombardi, G., **110**, 1407
- Alexander, S.P.H. *see* Hernández, F., **110**, 1085
- Allan, D.R., Penner, S.B. and Smyth, D.D. Renal imidazoline preferring sites and solute excretion in the rat, **108**, 870
- Allcock, G.H. *see* Warner, T.D., **110**, 777
- Allcock, G.H. *see* Warner, T.D., **110**, 783
- Alm, P. *see* Persson, K., **110**, 521
- Alps, B.J. *see* Brown, C.M., **109**, 175
- Altura, B.M. *see* Zhang, A., **109**, 291
- Altura, B.T. *see* Zhang, A., **109**, 291
- Alvarez, R. *see* Eglen, R.M., **108**, 376
- Alving, K., Fornhem, C. and Lundberg, J.M., **110**, 739
- Alzueta, A.F. *see* Orallo, F., **110**, 943
- Amerini, S. *see* Mantelli, L., **109**, 1268
- Amico, M.C. *see* Morrone, L.A., **109**, 48
- Anania, V. *see* Madeddu, P., **108**, 651
- Andersson, K.-E. *see* Igawa, Y., **109**, 473
- Andersson, K.-E. *see* Igawa, Y., **110**, 257
- Andersson, K.-E. *see* Persson, K., **110**, 521
- Andersson, K.-E. *see* Zygmunt, P.M., **110**, 1285
- Andreeva, L. and Rang, H.P. Effect of bradykinin and prostaglandins on the release of calcitonin gene-related peptide-like immunoreactivity from the rat spinal cord *in vitro*, **108**, 185
- Andrejuk, T. *see* Mushlin, P.S., **110**, 975
- Andrews, N., Barnes, N.M., Steward, L.J., West, K.E., Cunningham, J., Wu, P.-Y., Zangrossi Jr, H., File, S.E. A comparison of rat brain amino acid and monoamine content in diazepam withdrawal and after exposure to a phobic stimulus, **109**, 171
- Andrioli, G.C. *see* Fedele, E., **110**, 20
- Anelli, M. *see* Caccia, S., **110**, 355
- Anelli, M. *see* Grignaschi, G., **109**, 491
- Anggard, E. *see* Salvemini, D., **110**, 937
- Angrisani, M. *see* Norel, X., **108**, 914
- Angus, J.A. *see* Cocks, T.M., **110**, 360
- Anselmi, E. *see* Ivorra, M.D., **109**, 502
- Antonijevic, I. *see* Luckman, S.M., **110**, 378
- Antunes, E. *see* Marangoni, R.A., **109**, 539
- Arai, K. *see* Okumura, H., **110**, 1395
- Arakawa, H., Lötvall, J., Kawikova, I., Löfdahl, C.-G. and Skoogh, B.-E. Leukotriene D<sub>4</sub>- and prostaglandin F<sub>2 $\alpha$</sub> -induced airflow obstruction and airway plasma exudation in guinea-pig: role of thromboxane and its receptor, **110**, 127
- Arakawa, H. *see* Kawikova, I., **110**, 657
- Arch, J.R.S. *see* Bowring, N.E., **109**, 1133
- Archipoff, G., Beretz, A., Bartha, K., Brisson, C., de la Salle, C., Froget-Léon, C., Klein-Soyer, C. and Cazenave, J.-P. Role of cyclic AMP in promoting the thromboresistance of human endothelial cells by enhancing thrombomodulin and decreasing tissue factor activities, **109**, 18
- Argiolas, L. *see* Fabi, F., **110**, 338
- Arita, M. *see* Sato, T., **108**, 549
- Armstrong, R.A., Humphrey, P.P.A. and Lumley, P. Characteristics of the binding of [<sup>3</sup>H]-GR32191 to the thromboxane (TP-) receptor of human platelets, **110**, 539
- Armstrong, R.A., Humphrey, P.P.A. and Lumley, P. Reduction in the number of thromboxane receptors on human platelets after exposure to GR32191, **110**, 548
- Arner, P. *see* Lönnqvist, F., **110**, 929
- Arpaia, G. *see* Cirino, G., **108**, 573
- Arreto, C.D., Bureau, M.F., Imaizumi, A. and Vargaftig, B.B. Pharmacological differentiation by pertussis toxin of the *in vivo* acute responses to fMLP and PAF in guinea-pig lungs, **108**, 412
- Artalejo, A.R. *see* Garcez-Do-Carmo, L., **110**, 1149
- Artursson, P. *see* Karlsson, J., **110**, 1009
- Arvola, P., Ruskoaho, H., Wuorela, H., Pekki, A., Vapaatalo, H. and Pörsti, I. Quinapril treatment and arterial smooth muscle responses in spontaneously hypertensive rats, **108**, 980
- Arvola, P., Ruskoaho, H. and Pörsti, I. Effects of high calcium diet on arterial smooth muscle function and electrolyte balance in mineralocorticoid-salt hypertensive rats, **108**, 948
- Asakura, R. *see* Okumura, H., **110**, 1395
- Asano, M., Masuzawa-Ito, K. and Matsuda, T. Charybdotoxin-sensitive K<sup>+</sup> channels regulate the myogenic tone in the resting state of arteries from spontaneously hypertensive rats, **108**, 214
- Asano, M. *see* Suzuki, K., **109**, 661
- Asano, Y. *see* Muto, S., **109**, 673
- Ashikawa, N. *see* Okumura, H., **110**, 1395
- Ashizawa, N. *see* Okumura, H., **110**, 1395
- Assreuy, J., Cunha, F.Q., Liew, F.Y. and Moncada, S. Feedback inhibition of nitric oxide synthase activity by nitric oxide, **108**, 833
- Atack, J.R., Prior, A.M., Griffith, D. and Ragan, C.I. Characterization of the effects of lithium on phosphatidylinositol (PI) cycle activity in human muscarinic M1 receptor-transfected CHO cells, **110**, 809
- Aubier, M. *see* Pavlovic, D., **110**, 139
- Austin, C.E. and Foreman, J.C. The effect of platelet-activating factor on the responsiveness of the human nasal airway, **110**, 113
- Aziz, S.M. *see* Bolser, D.C., **110**, 491

## B

- Babbedge, R.C., Bland-Ward, P.A., Hart, S.L. and Moore, P.K. Inhibition of rat cerebellar nitric oxide synthase by 7-nitro indazole and related substituted indazoles, **110**, 225
- Babbedge, R.C. *see* Moore, P.K., **108**, 296
- Babbedge, R.C. *see* Moore, P.K., **110**, 219
- Badia, A. *see* Orallo, F., **110**, 943
- Badia, A. *see* Sallés, J., **108**, 678
- Baeyens, J.M. *see* Ocaña, M., **110**, 1049
- Bagetta, G., Iannone, M., Del Duca, C. and Nisticò, G. Inhibition by N<sup>ω</sup>-nitro-L-arginine methyl ester of the electrocortical arousal response in rats, **108**, 858
- Bailey, S.J. *see* Hourani, S.M.O., **110**, 501
- Bailey, T.J. *see* Svensson, S.P.S., **110**, 54
- Bajusz, I. *see* Bristow, D.R., **110**, 269
- Baker, J. *see* Geppetti, P., **108**, 646
- Baldwin, H.A., Colado, M.I., Murray, T.K., De Souza, R.J. and Green, A.R. Striatal dopamine release *in vivo* following neurotoxic doses of methamphetamine and effect of the neuroprotective drugs, chlor-methiazole and dizocilpine, **108**, 590
- Ball, S.G. *see* Hall, A.S., **110**, 681
- Ballabeni, V. *see* Barocelli, E., **108**, 393
- Balloy, V. *see* Renesto, P., **108**, 1100
- Balmforth, A.J. *see* Hall, A.S., **110**, 681
- Banchelli, G. *see* Pirisino, R., **109**, 1038
- Banford, P.C. *see* Bristow, D.R., **110**, 269
- Bao, J.-X. and Stjärne, L. Dual contractile effects of ATP released by field stimulation revealed by effects of  $\alpha,\beta$ -methylene ATP and suramin in rat tail artery, **110**, 1421
- Barann, M. *see* Bönsch, H., **108**, 436
- Barbato, F. *see* Mascolo, N., **108**, 861
- Barberá, M.D. *see* Salom, J.B., **109**, 826
- Barnes, J.C. *see* Hawcock, A.B., **108**, 1150
- Barnes, J.C. *see* Marshall, F.H., **109**, 760
- Barnes, N.M. *see* Andrews, N., **109**, 171
- Barnes, P.J. *see* Hirayama, Y., **108**, 844
- Barnes, P.J. *see* Lei, Y.-H., **108**, 228
- Barnes, P.J. *see* Tokuyama, K., **108**, 23
- Barnes, P.J. *see* Watson, N., **109**, 751
- Barocelli, E., Chiavarini, M., Ballabeni, V., Bordi, F. and Impicciatore, M. Interaction of selective compounds with muscarinic receptors at dispersed intestinal smooth muscle cells, **108**, 393
- Barr, A.J. and Watson, S.P. Non-peptide antagonists, CP-96,345 and RP 67580, distinguish species variants in tachykinin NK<sub>1</sub> receptors, **108**, 223
- Barrachina, M.D. *see* Esplugues, J.V., **108**, 9
- Barrett, K.E. *see* Kachintorn, U., **109**, 510
- Barrington, M. *see* Costa, M., **110**, 910
- Barson, A.J. *see* Slater, P., **108**, 1143
- Bartha, K. *see* Archipoff, G., **109**, 18
- Basiez, M. *see* Leboeuf, J., **110**, 23
- Battistini, B. *see* Filep, J.G., **109**, 637
- Bäumert, H.G. *see* Ziganshin, A.U., **110**, 1491
- Baumgarten, C.R., Linz, W., Kunkel, G., Schölkens, B.A. and Wiemer, G. Ramiprilat increases bradykinin outflow from isolated hearts of rat, **108**, 293
- Baydoun, A.R., Bogle, R.G., Pearson, J.D. and Mann, G.E. Selective inhibition by dexamethasone of induction of NO synthase, but not of induction of L-arginine transport, in activated murine macrophage J774 cells, **110**, 1401
- Baydoun, A.R., Foale, R.D. and Mann, G.E. Bacterial endotoxin rapidly stimulates prolonged endothelium-dependent vasodilatation in the rat isolated perfused heart, **109**, 987
- Bayguinov, O. and Sanders, K.M. Regulation of neural responses in the canine pyloric sphincter by opioids, **108**, 1024
- Bazzani, C. *see* Guarini, S., **109**, 645
- Beattie, D.T., Stubbs, C.M., Connor, H.E. and Feniuk, W. Neurokinin-induced changes in pial artery diameter in the anaesthetized guinea-pig, **108**, 146
- Beaujouan, J.-C., Heuillet, E., Petitot, F., Saffroy, M., Torrens, Y. and Glowinski, J. Higher potency of RP 67580, in the mouse and the rat compared with other nonpeptide and peptide tachykinin NK<sub>1</sub> antagonists, **108**, 793
- Beech, D.J., Zhang, H., Nakao, K. and Bolton, T.B. K channel activation by nucleotide diphosphates and its inhibition by glibenclamide in vascular smooth muscle cells, **110**, 573
- Beech, D.J., Zhang, H., Nakao, K. and Bolton, T.B. Single channel and whole-cell K-currents evoked by levcromakalim in smooth muscle cells from the rabbit portal vein, **110**, 583
- Beer, M.S., Stanton, J.A., Bevan, Y., Heald, A., Reeve, A.J., Street, L.J., Matassa, V.G., Hargreaves, R.J. and Middlemiss, D.N. L-694,247: a potent 5-HT<sub>1D</sub> receptor agonist, **110**, 1196
- Beglinger, C. *see* Drewe, J., **108**, 298
- Beilin, L.J. *see* Chu, Z.M., **109**, 322
- Beilin, L.J. *see* Chu, Z.M., **110**, 1184
- Beindl, W. *see* Freissmuth, M., **110**, 1429
- Belai, A. *see* Ralevic, V., **110**, 1105
- Belcourt, A. *see* Bricca, G., **110**, 1537
- Beleta, J. *see* Cortijo, J., **108**, 562
- Ben-Jebria, A., Marthan, R., Rossetti, M. and Savineau, J.-P. Effect of passive sensitization on the mechanical activity of human isolated bronchial smooth muscle induced by substance P, neurokinin A and VIP, **109**, 131
- Benckekroun, M.T., St-Pierre, S., Fournier, A. and Cadieux, A. Antagonism of the inhibitory action of neuropeptide Y (NPY) in guinea-pig trachea by the C-terminal fragment NPY (2-36), **109**, 902
- Bennett, M.R. *see* Cetiner, M., **110**, 995
- Bennett, M.R. *see* Khurana, G., **109**, 480
- Bennett, M.R. *see* Scott, T.R.D., **110**, 461
- Bennett, M.R. *see* Scott, T.R.D., **110**, 627
- Bennett, T. *see* Gardiner, S.M., **108**, 769
- Bennett, T. *see* Gardiner, S.M., **109**, 222
- Bennett, T. *see* Gardiner, S.M., **110**, 159
- Bennett, T. *see* Gardiner, S.M., **110**, 1457
- Bennett, T. *see* Gardiner, S.M., **110**, 1532
- Bennett, T. *see* Widdop, R.E., **108**, 684
- Berdeaux, A. *see* Richard, V., **110**, 969
- Berez, A. *see* Archipoff, G., **109**, 18
- Bergmann, C. *see* von der Weid, P.-Y., **108**, 638
- Berlan, M., Le Verge, R., Galitzky, J. and Le Corre, P.  $\alpha_2$ -Adrenoceptor antagonist potencies of two hydroxylated metabolites of yohimbine, **108**, 927
- Berman, R.S., Frew, J.D. and Martin, W. Endotoxin-induced arterial endothelial barrier dysfunction assessed by an *in vitro* model, **110**, 1282
- Berman, R.S. and Martin, W. Arterial endothelial barrier dysfunction: actions of homocysteine and the hypoxanthine-xanthine oxidase free radical generating system, **108**, 920
- Berry, J.L. *see* Chiu, P., **109**, 1149
- Berry, J.L. *see* Cook, S.J., **109**, 1140
- Berti, F. *see* Sala, A., **110**, 1206
- Bertolini, A. *see* Guarini, S., **109**, 645
- Bertrand, C. *see* Geppetti, P., **108**, 646
- Bertrand, G. *see* Hillaire-Buys, D., **109**, 183
- Bevan, S. *see* Maggi, C.A., **108**, 801
- Bevan, S. *see* Santicoli, P., **110**, 609
- Bevan, Y. *see* Beer, M.S., **110**, 1196
- Bhatti, T. *see* Farhat, M.Y., **110**, 719
- Bianchi, G. *see* Paul, W., **110**, 1565
- Bienert, M. *see* Lei, S., **108**, 941
- Bill, A. *see* Seligsohn, E.E., **109**, 1219
- Birdsall, N.J.M. *see* Lazareno, S., **109**, 1110
- Birdsall, N.J.M. *see* Lazareno, S., **109**, 1120
- Birrell, G.J. and Marcoux, F.W. Excitatory amino acid receptor-stimulated phosphoinositide turnover in primary cerebrocortical cultures, **109**, 379
- Bjur, R.A. *see* Khoyi, M.A., **110**, 1353
- Bkaily, G., D'Orléans-Juste, P., Naik, R., Pérodin, J., Stankova, J., Abdulnour, E. and Rola-Pleszczynski, M. PAF activation of a voltage-gated R-type Ca<sup>2+</sup> channel in human and canine aortic endothelial cells, **110**, 519
- Black, J.W. *see* Hull, R.A.D., **108**, 734
- Black, J.W. *see* Welsh, N.J., **109**, 941
- Blackman, J.G. *see* Galland, B.C., **108**, 1016
- Blackwood, A.M. and Bolton, T.B. Mechanism of carbachol-evoked contractions of guinea-pig ileal smooth muscle close to freezing point, **109**, 1029
- Blake, D.R. *see* Walsh, D.A., **108**, 304
- Blanchard, J.C. *see* Moussaoui, S.M., **109**, 259

- Bland-Ward, P.A. *see* Babbedge, R.C., 110, 225
- Bleazard, L. and Morris, R. The effects of cholinergic agonists and antagonists on C-fibre evoked responses in the substantia gelatinosa of neonatal rat spinal cord slices, 110, 1061
- Bley, K. *see* Eglen, R.M., 110, 119
- Blier, P. and Bouchard, C. Functional characterization of a 5-HT<sub>3</sub> receptor which modulates the release of 5-HT in the guinea-pig brain, 108, 13
- Bo, X. *see* Ziganshin, A.U., 110, 1491
- Boachie-Anash, G. *see* Tweedie, D., 110, 1222
- Boarder, M.R. *see* Purkiss, J.R., 108, 1031
- Boarder, M.R. *see* Wilkinson, G.F., 108, 689
- Bodin, P. *see* Hasséssian, H., 109, 466
- Boeckxstaens, G.E., De Man, J.G., Pelckmans, P.A., Cromheeke, K.M., Herman, A.G. and Van Maercke, Y.M. Ca<sup>2+</sup> dependency of the release of nitric oxide from non-adrenergic non-cholinergic nerves, 110, 1329
- Boeckxstaens, G.E., De Man, J.G., Pelckmans, P.A., Herman, A.G. and Van Maercke, Y.M.  $\alpha_2$ -Adrenoceptor-mediated modulation of the nitrergic innervation of the canine isolated ileocolonic junction, 109, 1079
- Boeckxstaens, G.E. *see* De Man, J.G., 110, 559
- Boer, G.J. *see* van Veldhuizen, M.J.A., 109, 655
- Boeynaems, J.M. *see* Motte, S., 109, 967
- Bogle, R.G. *see* Baydoun, A.R., 110, 1401
- Bogle, R.G. *see* Petros, A.J., 109, 6
- Bohmann, C., Schollmeyer, P. and Rump, L.C.  $\alpha_2$ -Autoreceptor subclassification in rat isolated kidney by use of short trains of electrical stimulation, 108, 262
- Boland, B., Himpens, B., Paques, C., Casteels, R. and Gillis, J.M. ATP induced-relaxation in the mouse bladder smooth muscle, 108, 749
- Boland, B. *see* Gailly, Ph., 110, 326
- Bolser, D.C., Aziz, S.M., DeGennaro, F.C., Kreutner, W., Egan, R.W., Siegel, M.I. and Chapman, R.W. Antitussive effects of GABA<sub>B</sub> agonists in the cat and guinea-pig, 110, 491
- Bolton, T.B. *see* Beech, D.J., 110, 573
- Bolton, T.B. *see* Beech, D.J., 110, 583
- Bolton, T.B. *see* Blackwood, A.M., 109, 1029
- Bompart, J. *see* Michel, A., 110, 1031
- Bonhaus, D.W. *see* Eglen, R.M., 110, 119
- Bönisch, H., Barann, M., Graupner, J. and Göthert, M. Characterization of 5-HT<sub>3</sub> receptors of N1E-115 neuroblastoma cells by use of the influx of the organic cation [<sup>14</sup>C]-guanidinium, 108, 436
- Bonnet, P.A. *see* Laurent, F., 108, 622
- Bonnet, P.A. *see* Michel, A., 110, 1031
- Boot, J.R. *see* Herbert, C.A., 110, 840
- Bordi, F. *see* Barocelli, E., 108, 393
- Borman, R.A. and Burleigh, D.E. Evidence for the involvement of a 5-HT<sub>4</sub> receptor in the secretory response of human small intestine to 5-HT, 110, 927
- BoSmith, R.E., Briggs, I. and Sturgess, N.C. Inhibitory actions of ZENECA ZD7288 on whole-cell hyperpolarization activated inward current (*I<sub>p</sub>*) in guinea-pig dissociated sinoatrial node cells, 110, 343
- Bou, J. *see* Cortijo, J., 108, 562
- Boucard, M. *see* Laurent, F., 108, 622
- Boucard, M. *see* Michel, A., 110, 1031
- Boucek Jr, R.J. *see* Mushlin, P.S., 110, 975
- Bouchard, C. *see* Blier, P., 108, 13
- Boughton-Smith, N.K., Deakin, A.M., Follenfant, R.L., Whittle, B.J.R. and Garland, L.G. Role of oxygen radicals and arachidonic acid metabolites in the reverse passive Arthus reaction and carrageenin paw oedema in the rat, 110, 896
- Boughton-Smith, N.K., Evans, S.M., Laszlo, F., Whittle, B.J.R. and Moncada, S. The induction of nitric oxide synthase and intestinal vascular permeability by endotoxin in the rat, 110, 1189
- Boura, A.L.A. *see* Read, M.A., 110, 454
- Bousquet, P. *see* Bricca, G., 110, 1537
- Bower, E.A. and Law, A.C.K. The effects of N<sup>ω</sup>-nitro-L-arginine methyl ester, sodium nitroprusside and noradrenaline on venous return in the anaesthetized cat, 108, 933
- Bowery, N.G. *see* Facklam, M., 110, 1291
- Bowery, N.G. *see* Pratt, G.D., 110, 724
- Bowery, N.G. *see* Tacconi, S., 108, 577
- Bowie, D. and Smart, T.G. Thiocyanate ions selectively antagonize AMPA-evoked responses in *Xenopus laevis* oocytes microinjected with rat brain mRNA, 109, 779
- Bowmer, C.J. *see* Knight, R.J., 109, 271
- Bowring, N.E., Arch, J.R.S., Buckle, D.R. and Taylor, J.F. Comparison of the airways relaxant and hypotensive potencies of the potassium channel activators BRL 55834 and levcromakalim (BRL 38227) *in vivo* in guinea-pigs and rats, 109, 1133
- Boyce, S. *see* Rupniak, N.M.J., 110, 1607
- Boyle, S.J., Tang, K.-W., Woodruff, G.N. and McKnight, A.T. Characterization of CCK receptors in a novel smooth muscle preparation from the guinea-pig stomach by use of the selective antagonists CI-988, L-365,260 and devazepide, 109, 913
- Boyle, S.J. *see* Guard, S., 110, 385
- Brading, A.F. *see* Katayama, N., 109, 1097
- Bradley, M.E. *see* Zhang, L., 109, 905
- Brain, S. *see* Yarwood, H., 108, 959
- Brain, S.D. *see* Escott, K.J., 110, 772
- Brain, S.D. *see* Marangoni, R.A., 109, 539
- Brain, S.D. *see* Newbold, P., 108, 705
- Brakkee, J.H. *see* Schipper, N.G.M., 110, 1335
- Bravenboer, B. *see* Kappelle, A.C., 108, 780
- Breese, G.R. *see* Criswell, H.E., 110, 753
- Breslow, R. *see* Pettipher, E.R., 110, 423
- Bricca, G., Zhang, J., Grenney, H., Dontenwill, M., Stutzmann, J., Belcourt, A. and Bousquet, P. Relevance of the use of [<sup>3</sup>H]-clonidine to identify imidazoline receptors in the rabbit brainstem, 110, 1537
- Brideau, C. *see* Tousignant, C., 108, 383
- Bridenbaugh, R. *see* Abassi, Z.A., 109, 1024
- Briggs, I. *see* BoSmith, R.E., 110, 343
- Brink, C. *see* Norel, X., 108, 914
- Brione, E. *see* Pavlovic, D., 110, 139
- Brisson, C. *see* Archipoff, G., 109, 18
- Bristow, D.R., Banford, P.C., Bajusz, I., Vedat, A. and Young, J.M. Desensitization of histamine H<sub>1</sub> receptor-mediated inositol phosphate accumulation in guinea pig cerebral cortex slices, 110, 269
- Bristow, D.R. and Zamani, M.R. Desensitization of histamine H<sub>1</sub> receptor-mediated inositol phosphate production in HeLa cells, 109, 353
- Bristow, L.J., Hutson, P.H., Thorn, L. and Tricklebank, M.D. The glycine/NMDA receptor antagonist, R-(+)-HA-966, blocks activation of the mesolimbic dopaminergic system induced by phencyclidine and dizocilpine (MK-801) in rodents, 108, 1156
- Brizzolara, A.L., Crowe, R. and Burnstock, G. Evidence for the involvement of both ATP and nitric oxide in non-adrenergic, non-cholinergic inhibitory neurotransmission in the rabbit portal vein, 109, 606
- Brooks, D.P., Short, B.G., Cyronak, M.J., Contino, L.C., DiCristo, M., Wang, Y.-X. and Ruffolo Jr, R.R. Comparison between carvedilol and captopril in rats with partial ablation-induced chronic renal failure, 109, 581
- Brouwer, F. *see* de Boer, R.E.P., 110, 442
- Brown, C.A., Chan, S.L.F., Stillings, M.R., Smith, S.A. and Morgan, N.G. Antagonism of the stimulatory effects of efaroxan and glibenclamide in rat pancreatic islets by the imidazoline, RX801080, 110, 1017
- Brown, C.A., Loweth, A.C., Smith, S.A. and Morgan, N.G. Stimulation of insulin secretion by imidazoline compounds is not due to interaction with non-adrenoceptor idazoxan binding sites, 108, 312
- Brown, C.M., Calder, C., Alps, B.J. and Spedding, M. The effect of lifarizine (RS-87476), a novel sodium and calcium channel modulator, on ischaemic dopamine depletion in the corpus striatum of the gerbil, 109, 175
- Brown, C.M., MacKinnon, A.C., Redfern, W.S., Hicks, P.E., Kilpatrick, A.T., Small, C., Ramcharan, M., Clague, R.U., Clark, R.D., MacFarlane, C.B. and Spedding, M. The pharmacology of RS-15385-197, a potent and selective  $\alpha_2$ -adrenoceptor antagonist, 108, 516
- Brown, C.M. *see* Kenny, B.A., 109, 437
- Brown, C.M. *see* MacKinnon, A.C., 109, 371
- Brown, C.M. *see* Redfern, W.S., 108, 526
- Brown, F. *see* Connolly, G.P., 110, 854
- Brown, M.J. *see* Ferro, A., 109, 1053
- Brownlie, R.P., Brownrigg, N.J., Butcher, H.M., Garcia, R., Jessup, R., Lee, V.J., Tunstall, S. and Wayne, M.G. ZD1542, a potent thromboxane A<sub>2</sub> synthase inhibitor and receptor antagonist *in vitro*, 110, 1600
- Brownrigg, N.J. *see* Brownlie, R.P., 110, 1600

- Brugger, F. *see* Pook, P., 108, 179  
 Bryson, S.E. *see* Hall, A.S., 110, 681  
 Buccellati, C. *see* Sala, A., 110, 1206  
 Bucher, B. *see* Tschöpl, M., 110, 1098  
 Buckle, D.R. *see* Bowring, N.E., 109, 1133  
 Buffoni, F. *see* Pirisino, R., 109, 1038  
 Bühlmann, P. *see* Criscione, L., 110, 761  
 Bull, P.M. *see* Douglas, A.J., 109, 251  
 Bültmann, R., von Kügelgen, I. and Starke, K. Effects of nifedipine and ryanodine on adrenergic neurogenic contractions of rat vas deferens: evidence for a pulse-to-pulse change in  $\text{Ca}^{2+}$  sources, 108, 1062  
 Bültmann, R. *see* Driessen, B., 108, 443  
 Bültmann, R. and Starke, K. Chloroethylclonidine: an irreversible agonist at prejunctional  $\alpha_2$ -adrenoceptors in rat vas deferens, 108, 336  
 Bunce, K.T. *see* Grossman, C.J., 109, 618  
 Bureau, M.F. *see* Arreto, C.D., 108, 412  
 Burgaud, J.L. and Oudart, N. Bronchodilatation of guinea-pig perfused bronchioles induced by the  $\text{H}_3$ -receptor for histamine: role of epithelium, 109, 960  
 Burleigh, D.E. *see* Borman, R.A., 110, 927  
 Burns, F.M. *see* Turner, N.C., 108, 876  
 Burnstock, G. *see* Brizzolaro, A.L., 109, 606  
 Burnstock, G. *see* Hasséssian, H., 109, 466  
 Burnstock, G. *see* Ralevic, V., 110, 1105  
 Burnstock, G. *see* Vials, A., 109, 424  
 Burnstock, G. *see* Vials, A.J., 110, 1091  
 Burnstock, G. *see* Ziganshin, A.U., 110, 1491  
 Burrell, J.H. *see* Lumbers, E.R., 110, 821  
 Busik, J. *see* Ikei, N., 110, 603  
 Busse, R. *see* Macarthur, H., 108, 100  
 Butcher, H.M. *see* Brownlie, R.P., 110, 1600  
 Butler, A., Worton, S.P., O'Shaughnessy, C.T. and Connor, H.E. Sensory nerve-mediated relaxation of guinea-pig isolated pulmonary artery: prejunctional modulation by  $\alpha_2$ -adrenoceptor agonists but not sumatriptan, 109, 126  
 Butt, A.Y. *see* Dinh-Xuan, A.T., 109, 587  
 Butterfield, M.C. and Chess-Williams, R. Potentiation of  $\alpha$ -adrenoceptor-mediated responses following chronic  $\beta$ -adrenoceptor stimulation in the rat heart, 108, 658  
 Buttrum, S.M. *see* Perry, I., 110, 1630  
 Buxton, I.L.O. *see* Khoyi, M.A., 110, 1353  
 Buxton, I.L.O. *see* Zhang, L., 108, 613  
 Buxton, I.L.O. *see* Zhang, L., 109, 905  
 Byun, B. *see* Huang, Z., 108, 331
- C
- Caccia, S., Anelli, M., Codegoni, A.M., Fracasso, C. and Garattini, S. The effects of single and repeated anorectic doses of 5-hydroxytryptamine uptake inhibitors on indole levels in rat brain, 110, 355  
 Caccia, S. *see* Grignaschi, G., 109, 491  
 Cadavid, M.I. *see* Orallo, F., 110, 943  
 Cadieux, A. *see* Benchenkroun, M.T., 109, 902  
 Caesar, M., Seabrook, G.R. and Kemp, J.A. Block of voltage-dependent sodium currents by the substance P receptor antagonist ( $\pm$ )-CP-96,345 in neurones cultured from rat cortex, 109, 918  
 Caesar, M. *see* Rupniak, N.M.J., 110, 1607  
 Cairns, H.S. *see* Rogerson, M.E., 108, 838  
 Cairns, S.P. and Dulhunty, A.F. The effects of  $\beta$ -adrenoceptor activation on contraction in isolated fast- and slow-twitch skeletal muscle fibres of the rat, 110, 1133  
 Calatayud, S. *see* Esplugues, J.V., 108, 9  
 Calder, C. *see* Brown, C.M., 109, 175  
 Calixto, J.B. *see* Corrêa, C.R., 110, 193  
 Cameron, N.E., Cotter, M.A., Dines, K.C., Robertson, S. and Cox, D. The effects of evening primrose oil on nerve function and capillarization in streptozotocin-diabetic rats: modulation by the cyclo-oxygenase inhibitor flurbiprofen, 109, 972  
 Camm, A.J. *see* Fei, L., 109, 178  
 Campbell, T.J. *see* Wyse, K.R., 108, 255  
 Campos, M. *see* Orallo, F., 110, 943  
 Camus, J. *see* Waelbroeck, M., 109, 360  
 Cano, J. *see* Santiago, M., 109, 814  
 Cantley, L.C. *see* McMillian, M.K., 108, 453  
 Capasso, F. *see* Mascolo, N., 108, 861  
 Cardell, L.O., Uddman, R. and Edvinsson, L. A novel  $\text{ET}_A$ -receptor antagonist, FR 139317, inhibits endothelin-induced contractions of guinea-pig pulmonary arteries, but not trachea, 108, 448  
 Cardelús, I. *see* Cortijo, J., 108, 562  
 Carey, F. *see* Duncan, G.S., 108, 62  
 Carl, A. *see* Kitamura, K., 109, 415  
 Carpenter, J.R. *see* Chiu, P., 109, 1149  
 Carruette, A. *see* Moussaoui, S.M., 109, 259  
 Carruthers, A.M. *see* Fozard, J.R., 109, 3  
 Carter, D.B. *see* Im, W.B., 110, 677  
 Cartmell, S.M. and Mitchell, D. Attenuation of reperfusion hyperalgesia in the rat by systemic administration of benzodiazepines, 110, 1067  
 Casis, O. *see* Perez-Vizcaino, F., 110, 1165  
 Casis, O. *see* Valenzuela, C., 109, 873  
 Casteels, R. *see* Boland, B., 108, 749  
 Casteels, R. *see* Gailly, Ph., 110, 326  
 Cathapermal, S. *see* Farhat, M.Y., 110, 719  
 Catravas, J.D. *see* Marczin, N., 109, 603  
 Catret, M. *see* Ivorra, M.D., 109, 502  
 Catt, K.J. *see* Al-Damluji, S., 109, 299  
 Caussade, F. and Cloarec, A. Effect of tienoxolol, a new diuretic  $\beta$ -blocking agent, on urinary prostaglandin excretion in the rat, 109, 278  
 Cazenave, J.-P. *see* Archipoff, G., 109, 18  
 Cecchi, E. *see* Failli, P., 110, 213  
 Cetiner, M. and Bennett, M.R. Nitric oxide modulation of calcium-activated potassium channels in postganglionic neurones of avian cultured ciliary ganglia, 110, 995  
 Chahine, R., Adam, A., Yamaguchi, N., Gaspo, R., Regoli, D. and Nadeau, R. Protective effects of bradykinin on the ischaemic heart: implication of the  $\text{B}_1$  receptor, 108, 318  
 Chan, C.-C. *see* Tousignant, C., 108, 383  
 Chan, S.L.F. *see* Brown, C.A., 110, 1017  
 Chang, C.C. *see* Hong, S.J., 109, 1178  
 Chang, G.J. *see* Su, M.J., 110, 310  
 Chapal, J. *see* Hillaire-Buys, D., 109, 183  
 Chapat, J.P. *see* Laurent, F., 108, 622  
 Chapat, J.P. *see* Michel, A., 110, 1031  
 Chapman, R.W. *see* Bolser, D.C., 110, 491  
 Cheetham, S.C. and Heal, D.J. Evidence that RU 24969-induced locomotor activity in C57/B1/6 mice is specifically mediated by the  $5\text{-HT}_{1B}$  receptor, 110, 1621  
 Chen, C.-C. *see* Yu, S.-M., 108, 1055  
 Chen, M.-F. *see* Farhat, M.Y., 110, 719  
 Chen, Q. and van Breemen, C. The superficial buffer barrier in venous smooth muscle: sarcoplasmic reticulum refilling and unloading, 109, 336  
 Chen, S., Inoue, R. and Ito, Y. Pharmacological characterization of muscarinic receptor-activated cation channels in guinea-pig ileum, 109, 793  
 Chen, Y.-L. *see* Huang, H.-C., 110, 1508  
 Cheng, C.H.K., Costall, B., Ge, J. and Naylor, R.J. The profiles of interaction of yohimbine with anxiolytic and putative anxiolytic agents to modify 5-HT release in the frontal cortex of freely-moving rats, 110, 1079  
 Cheng, T.P.-O. *see* Zhang, A., 109, 291  
 Cherici, G. *see* Lombardi, G., 110, 1407  
 Chess-Williams, R. *see* Butterfield, M.C., 108, 658  
 Chettibi, S., Lawrence, A.J. and Stevenson, R.D. A factor released by monocytes in the presence of dexamethasone stimulates neutrophil locomotion, 108, 248  
 Chhajlani, V. *see* Uhlén, S., 108, 852  
 Chiavarelli, M. *see* Fabi, F., 110, 338  
 Chiavarelli, R. *see* Fabi, F., 110, 338  
 Chiavarini, M. *see* Barocelli, E., 108, 393  
 Chignard, M. *see* Renesto, P., 108, 1100  
 Chiu, P., Cook, S.J., Small, R.C., Berry, J.L., Carpenter, J.R., Downing, S.J., Foster, R.W., Miller, A.J. and Small, A.M.  $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal  $\text{K}^+$ -channels in bovine trachealis muscle: studies of mechanical activity and ion fluxes, 109, 1149  
 Chiu, P. *see* Cook, S.J., 109, 1140  
 Chiu, T.H., Yeh, M.H., Tsai, S.K. and Mok, M.S. Electrophysiological actions of alfentanil: intracellular studies in the rat locus coeruleus neurones, 110, 903  
 Chou, S.-P. *see* Yang, C.M., 110, 1239

- Chowienczyk, P.J., Cockcroft, J.R. and Ritter, J.M. Differential inhibition by *N*<sup>c</sup>-monomethyl-L-arginine of vasodilator effects of acetylcholine and methacholine in human forearm vasculature, **110**, 736
- Choy, P.C. *see* Hu, W., **110**, 645
- Christophe, J. *see* Waelbroeck, M., **109**, 360
- Chu, Z.M. and Beilin, L.J. Mechanisms of vasodilatation in pregnancy: studies of the role of prostaglandins and nitric-oxide in changes of vascular reactivity in the *in situ* blood perfused mesentery of pregnant rats, **109**, 322
- Chu, Z.M. and Beilin, L.J. Nitric oxide-mediated changes in vascular reactivity in pregnancy in spontaneously hypertensive rats, **110**, 1184
- Church, J. *see* Fletcher, E.J., **109**, 1196
- Church, M.K. *see* Omari, T., **109**, 553
- Ciabattoni, G., Montuschi, P., Currò, D., Togna, G. and Preziosi, P. Effects of vasoactive intestinal polypeptide on antigen-induced bronchoconstriction and thromboxane release in guinea-pig lung, **109**, 243
- Cicala, C. *see* Cirino, G., **108**, 573
- Ciliberto, G. *see* Cirino, G., **108**, 573
- Cirillo, R. *see* Lidbury, P.S., **110**, 275
- Cirino, G., Cicala, C., Sorrentino, L., Ciliberto, G., Arpaia, G., Perretti, M. and Flower, R.J. Anti-inflammatory actions of an *N*-terminal peptide from human lipocortin 1, **108**, 573
- Clague, R.U. *see* Brown, C.M., **108**, 516
- Clague, R.U. *see* Redfern, W.S., **108**, 526
- Claing, A. *see* D'Orléans-Juste, P., **110**, 687
- Clark, K.C. *see* Pook, P., **108**, 179
- Clark, K.L., Robertson, M.J. and Drew, G.M. Role of angiotensin AT<sub>1</sub> and AT<sub>2</sub> receptors in mediating the renal effects of angiotensin II in the anaesthetized dog, **109**, 148
- Clark, R.D. *see* Brown, C.M., **108**, 516
- Clark, R.D. *see* Eglén, R.M., **110**, 119
- Clark, S.A. *see* Marshall, F.H., **109**, 760
- Clarke, B., Spedding, M., Patmore, L. and McCormack, J.G. Protective effects of ranolazine in guinea-pig hearts during low-flow ischaemia and their association with increases in active pyruvate dehydrogenase, **109**, 748
- Clarke, G. *see* Douglas, A.J., **109**, 251
- Clayton, J.K. *see* Senior, J., **108**, 501
- Cloarec, A. *see* Caussade, F., **109**, 278
- Coates, J. *see* Gurden, M.F., **109**, 693
- Coates, J. *see* Reeves, J.J., **110**, 1255
- Cockcroft, J.R. *see* Chowienczyk, P.J., **110**, 736
- Cocks, T.M., Kemp, B.K., Pruneau, D. and Angus, J.A. Comparison of contractile responses to 5-hydroxytryptamine and sumatriptan in human isolated coronary artery: synergy with the thromboxane A<sub>2</sub>-receptor agonist, U46619, **110**, 360
- Codegoni, A.M. *see* Caccia, S., **110**, 355
- Colado, M.I., Murray, T.K. and Green, A.R. 5-HT loss in rat brain following 3,4-methylenedioxymethamphetamine (MDMA), *p*-chloroamphetamine and fenfluramine administration and effects of chlormethiazole and dizocilpine, **108**, 583
- Colado, M.I. *see* Baldwin, H.A., **108**, 590
- Coleman, R.A. *see* Louttit, J.B., **110**, 1317
- Coleman, R.A. *see* Nials, A.T., **108**, 507
- Coleman, R.A. *see* Nials, A.T., **110**, 1112
- Collingridge, G.L. *see* Harvey, J., **109**, 1085
- Collins, G.G.S. Actions of agonists of metabotropic glutamate receptors on synaptic transmission and transmitter release in the olfactory cortex, **108**, 422
- Collins, P.D., Connolly, D.T. and Williams, T.J. Characterization of the increase in vascular permeability induced by vascular permeability factor *in vivo*, **109**, 195
- Connolly, D.T. *see* Collins, P.D., **109**, 195
- Connolly, G.P., Harrison, P.J. and Stone, T.W. Action of purine and pyrimidine nucleotides on the rat superior cervical ganglion, **110**, 1297
- Connolly, G.P., Stone, T.W. and Brown, F. Characterization of the adenosine receptors of the rat superior cervical ganglion, **110**, 854
- Connor, H.E. *see* Beattie, D.T., **108**, 146
- Connor, H.E. *see* Butler, A., **109**, 126
- Connor, H.E. *see* O'Shaughnessy, C.T., **108**, 191
- Connors, S.P. *see* White, E., **110**, 95
- Conroy, D.M. *see* Nogueira de Francischi, J., **110**, 1381
- Conte, B. *see* Parlani, M., **110**, 989
- Contino, L.C. *see* Brooks, D.P., **109**, 581
- Cook, G. *see* Rupniak, N.M.J., **110**, 1607
- Cook, S.J., Small, R.C., Berry, J.L., Chiu, P., Downing, S.J. and Foster, R.W.  $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal K<sup>+</sup>-channels in trachealis muscle: electrophysiological and mechanical studies in guinea-pig tissue, **109**, 1140
- Cook, S.J. *see* Chiu, P., **109**, 1149
- Corder, R. *see* McMurdo, L., **108**, 557
- Corder, R. *see* Warner, T.D., **110**, 777
- Cordi, A. *see* Renouard, A., **109**, 625
- Corrêa, C.R. and Calixto, J.B. Evidence for participation of B<sub>1</sub> and B<sub>2</sub> kinin receptors in formalin-induced nociceptive response in the mouse, **110**, 193
- Corsi, M., Pojani, G., Dal Forno, G., Pietra, C., Gaviraghi, G. and Trist, D. Analysis of the CCK<sub>8</sub> receptor antagonism of virginiamycin in guinea-pig ileum longitudinal myenteric plexus, **108**, 1164
- Cortes, D. *see* Ivorra, M.D., **109**, 502
- Cortijo, J., Bou, J., Beleta, J., Cardelús, I., Llenas, J., Morcillo, E. and Gristwood, R.W. Investigation into the role of phosphodiesterase IV in bronchorelaxation, including studies with human bronchus, **108**, 562
- Costa, M., Barrington, M. and Majewski, H. Evidence that M<sub>1</sub> muscarinic receptors enhance noradrenaline release in mouse atria by activating protein kinase C, **110**, 910
- Costall, B., Naylor, R.J. and Tuladhar, B.R. 5-HT<sub>4</sub> receptor mediated facilitation of the emptying phase of the peristaltic reflex in the guinea-pig isolated ileum, **110**, 1572
- Costall, B. *see* Cheng, C.H.K., **110**, 1079
- Cotter, M.A. *see* Cameron, N.E., **109**, 972
- Coughlan, M.L. *see* Warren, J.B., **109**, 802
- Couture, R. *see* Lopes, P., **110**, 1369
- Couture, R. *see* Nakhostine, N., **110**, 71
- Cox, B. *see* McAuliffe, S.J.G., **109**, 405
- Cox, D. *see* Cameron, N.E., **109**, 972
- Craig, D.A. and Martin, G.R. 5-HT<sub>1B</sub> receptors mediate potent contractile responses to 5-HT in rat caudal artery, **109**, 609
- Cremona, G. *see* Dinh-Xuan, A.T., **109**, 587
- Criscione, L., de Gasparo, M., Bühlmyer, P., Whitebread, S., Ramjoué, H.-p.R. and Wood, J. Pharmacological profile of valsartan: a potent, orally active, nonpeptide antagonist of the angiotensin II AT<sub>1</sub>-receptor subtype, **110**, 761
- Cristol, J.-P., Warner, T.D., Thiernemann, C. and Vane, J.R. Mediation via different receptors of the vasoconstrictor effects of endothelins and sarafotoxins in the systemic circulation and renal vasculature of the anaesthetized rat, **108**, 776
- Cristol, J.P., Thiernemann, C., Mitchell, J.A., Walder, C. and Vane, J.R. Support of renal blood flow after ischaemic-reperfusion injury by endogenous formation of nitric oxide and of cyclo-oxygenase vasodilator metabolites, **109**, 188
- Criswell, H.E. and Breese, G.R. Similar effects of ethanol and flumazenil on acquisition of a shuttle-box avoidance response during withdrawal from chronic ethanol treatment, **110**, 753
- Cromheeke, K.M. *see* Boeckxstaens, G.E., **110**, 1329
- Crowe, R. *see* Brizzolara, A.L., **109**, 606
- Cucchi, P. *see* Eglezos, A., **109**, 736
- Cunha, F.Q. *see* Assreuy, J., **108**, 833
- Cunha, F.Q. *see* Tavares-Murta, B.M., **108**, 538
- Cunningham, J. *see* Andrews, N., **109**, 171
- Curro, D. *see* Ciabattoni, G., **109**, 243
- Curtis, M.J. *see* Rees, S.A., **108**, 139
- Curzon, G. *see* Semba, J., **108**, 1117
- Cusack, B.J. *see* Mushlin, P.S., **110**, 975
- Cuthbert, A.W. *see* Henderson, R.M., **108**, 479
- Cuthbert, A.W. *see* MacVinish, L.J., **108**, 462
- Cuthbert, A.W. *see* MacVinish, L.J., **108**, 469
- Cuthbert, A.W. *see* Middleton, S.J., **108**, 974
- Cyronak, M.J. *see* Brooks, D.P., **109**, 581

## D

- Dal Forno, G. *see* Corsi, M., **108**, 1164
- Dalipram, R.A. *see* Sobey, C.G., **108**, 342
- Dalziel, H.H. *see* Khoyi, M.A., **110**, 1353

- David, C., Davis, N., Mason, R. and Wilson, V.G. Evidence for functional dissociation of dependence and tolerance in guinea-pig isolated ileal segments following 20 hour exposure to morphine *in vitro*, 110, 1522
- Davis, N. *see* David, C., 110, 1522
- Dawson, V.L. *see* Kusama, T., 109, 200
- de Boer, R.E.P., Brouwer, F. and Zaagsma, J. The  $\beta$ -adrenoceptors mediating relaxation of rat oesophageal muscularis mucosae are predominantly of the  $\beta_3$ -, but also of the  $\beta_2$ -subtype, 110, 442
- De Clerck, F. *see* Folkerts, G., 108, 1083
- de Gasparo, M. *see* Criscione, L., 110, 761
- de Groat, W.C. *see* Yoshizawa, M., 110, 77
- De Kimpe, S.J., Van Heuven-Nolsen, D. and Nijkamp, F.P. Acetylcholine-induced relaxation in bovine isolated mesenteric arteries is suppressed by polymorphonuclear leukocytes, 109, 8
- de la Fuente, M.-T. *see* Garcez-Do-Carmo, L., 110, 1149
- de la Salle, C. *see* Archipoff, G., 109, 18
- De Lannoy, L.M. *see* Schipper, N.G.M., 110, 1335
- De Man, J.G., Boeckxstaens, G.E., Pelckmans, P.P., de Winter, B.Y., Herman, A.G. and Van Maercke, Y.M. Prejunctional modulation of the nitrergic innervation of the canine ileocolonic junction via potassium channels, 110, 559
- De Man, J.G. *see* Boeckxstaens, G.E., 109, 1079
- De Man, J.G. *see* Boeckxstaens, G.E., 110, 1329
- de Nucci, G. *see* Marangoni, R.A., 109, 539
- De Ridder, W.J.E. *see* Tokuhara, T., 110, 297
- De Souza, R.J. *see* Baldwin, H.A., 108, 590
- De Vernejoul, D. *see* Pavlovic, D., 110, 139
- De Winter, B.Y. *see* De Man, J.G., 110, 559
- de Witte, P. *see* Nijs, G., 108, 269
- De Wulf, H. *see* Keppens, S., 108, 663
- Deakin, A.M. *see* Boughton-Smith, N.K., 110, 896
- DeGennaro, F.C. *see* Bolser, D.C., 110, 491
- Deitmer, P. *see* Noack, T., 109, 164
- del Basso, P. *see* Fabi, F., 110, 338
- Del Bianco, E. *see* Santicoli, P., 110, 609
- Del Bianco, E. *see* Tramontana, M., 108, 431
- Del Duca, C. *see* Bagetta, G., 108, 858
- Del Zompo, M., Piccardi, M.P., Ruij, S., Quartu, M., Gessa, G.L. and Vaccari, A. Selective MPP<sup>+</sup> uptake into synaptic dopamine vesicles: possible involvement in MPTP neurotoxicity, 109, 411
- Delgado, C., Tamargo, J., Henzel, D. and Lorente, P. Effects of propafenone on calcium current in guinea-pig ventricular myocytes, 108, 721
- Delpón, E. *see* Valenzuela, C., 109, 873
- Demontis, M.P. *see* Madeddu, P., 108, 651
- den Hertog, A. *see* Henning, R.H., 110, 133
- den Hertog, A. *see* Henning, R.H., 110, 747
- Derrien, M. *see* Noble, F., 109, 1064
- Devesly, P. *see* Kleha, J.F., 110, 1473
- Dezaki, K. *see* Kimura, I., 110, 639
- Dharmasathaphorn, K. *see* Kachintorn, U., 109, 510
- Di Rosa, M. *see* Ialenti, A., 110, 701
- Diamond, J. *see* Giembycz, M.A., 108, 824
- Díaz-Rey, M.A. *see* Pintor, J., 108, 1094
- Dickenson, A.H. *see* Stanfa, L.C., 108, 967
- Dickenson, J.M. and Hill, S.J. Adenosine A<sub>1</sub>-receptor stimulated increases in intracellular calcium in the smooth muscle cell line, DDT<sub>1</sub>MF-2, 108, 85
- Dickenson, J.M. and Hill, S.J. Homologous and heterologous desensitization of histamine H<sub>1</sub>- and ATP-receptors in the smooth muscle cell line, DDT<sub>1</sub>MF-2: the role of protein kinase C, 110, 1449
- Dickenson, J.M. and Hill, S.J. Intracellular cross-talk between receptors coupled to phospholipase C via pertussis toxin-sensitive and insensitive G-proteins in DDT<sub>1</sub>MF-2 cells, 109, 719
- Dickenson, J.M. *see* White, T.E., 108, 196
- Dickinson, K. *see* Jones, R.B., 108, 1111
- DiCristo, M. *see* Brooks, D.P., 109, 581
- Diéguez, G. *see* Fernández, N., 110, 428
- Diéguez, G. *see* Monge, L., 109, 61
- Dimech, J., Feniuk, W. and Humphrey, P.P.A. Antagonist effects of seglitide (MK 678) at somatostatin receptors in guinea-pig isolated right atria, 109, 898
- Dimech, J. *see* Feniuk, W., 110, 1156
- Dines, K.C. *see* Cameron, N.E., 109, 972
- Dinh-Xuan, A.T., Pepke-Zaba, J., Butt, A.Y., Cremona, G. and Higenbottam, T.W. Impairment of pulmonary-artery endothelium-dependent relaxation in chronic obstructive lung disease is not due to dysfunction of endothelial cell membrane receptors nor to L-arginine deficiency, 109, 587
- Docherty, J.R. *see* Aboud, R., 109, 80
- D'Ocon, M.P. *see* Noguera, M.A., 110, 861
- D'Ocon, P. *see* Ivorra, M.D., 109, 502
- Dolly, J.O. *see* McGivern, J., 109, 535
- Dong, H., Sheng, J.-Z., Lee, C.-M. and Wong, T.M. Calcium antagonistic and antiarrhythmic actions of CPU-23, a substituted tetrahydroisoquinoline, 109, 113
- Dontenwill, M. *see* Bricca, G., 110, 1537
- D'Orléans-Juste, P., Claing, A., Warner, T.D., Yano, M. and Télamaque, S. Characterization of receptors for endothelins in the perfused arterial and venous mesenteric vasculatures of the rat, 110, 687
- D'Orléans-Juste, P. *see* Bkaily, G., 110, 519
- Dougall, I.G. *see* Leff, P., 110, 239
- Douglas, A.J., Clarke, G., MacMillan, S.J.A., Bull, P.M., Neumann, I., Way, S.A., Wright, D.M., McGrory, B.G. and Russell, J.A. Effects of the  $\kappa$ -opioid agonist U50,488 on parturition in rats, 109, 251
- Douglas, S.A., Vickery-Clark, L.M. and Ohlstein, E.H. Endothelin-1 does not mediate hypoxic vasoconstriction in canine isolated blood vessels: effect of BQ-123, 108, 418
- Downing, S.J. *see* Chiu, P., 109, 1149
- Downing, S.J. *see* Cook, S.J., 109, 1140
- Drapeau, G. *see* Levesque, L., 109, 1254
- Drew, G.M. *see* Clark, K.L., 109, 148
- Drew, G.M. *see* White, D.G., 108, 763
- Drewe, J., Fricker, G., Vonderscher, J. and Beglinger, C. Enteral absorption of octreotide: absorption enhancement by polyoxyethylene-24-cholesterol ether, 108, 298
- Drieman, J.C., Thijsen, H.H.W. and Struyker-Boudier, H.A.J. Renal selective *N*-acetyl-L- $\gamma$ -glutamyl prodrugs: studies on the selectivity of some model prodrugs, 108, 204
- Driessen, B., Bültmann, R., von Kügelgen, I. and Starke, K. Effect of opioid receptor subtype-selective agonists on purinergic and adrenergic components of neurogenic contractions of mouse vas deferens, 108, 443
- Driessen, B., Reimann, W. and Giertz, H. Effects of the central analgesic tramadol on the uptake and release of noradrenaline and dopamine *in vitro*, 108, 806
- Driessen, B. *see* Sevcik, J., 110, 169
- Drobny, H. *see* Agneter, E., 108, 370
- D'Souza, S.W. *see* Slater, P., 108, 1143
- du Souich, P. *see* Robichaud, A., 110, 804
- Duarte, J. *see* Valenzuela, C., 109, 873
- Duin, M. *see* Henning, R.H., 110, 133
- Duin, M. *see* Henning, R.H., 110, 747
- Dulhunty, A.F. *see* Cairns, S.P., 110, 1133
- Dulmet, E. *see* Norel, X., 108, 914
- Duncan, G.S., Peers, S.H., Carey, F., Forder, R. and Flower, R.J. The local anti-inflammatory action of dexamethasone in the rat carrageenin oedema model is reversed by an antiserum to lipocortin 1, 108, 62
- Duncan, G.S. *see* Perretti, M., 110, 868
- Dursun, S.M. and Handley, S.L. The effects of  $\alpha_2$ -adrenoceptor antagonists on the inhibition of 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane (DOI)-induced head shakes by 5-HT<sub>1A</sub> receptor agonists in the mouse, 109, 1046
- Dye, S. *see* Luckman, S.M., 110, 378

## E

- Edvinsson, L. *see* Cardell, L.O., 108, 448
- Edwards, D. *see* Herbert, C.A., 110, 840
- Edwards, G., Ibbotson, T. and Weston, A.H. Levromakalim may induce a voltage-independent K-current in rat portal veins by modifying the gating properties of the delayed rectifier, 110, 1037
- Edwards, G. *see* Ibbotson, T., 108, 991
- Edwards, G. *see* Ibbotson, T., 110, 1556
- Edwards, G. and Weston, A.H. Induction of a glibenclamide-sensitive K-current by modification of a delayed rectifier channel in rat portal

- vein and insulinoma cells, 110, 1280  
 Edwardson, J.M. *see* Waschulewski, I.H., 108, 892  
 Egan, R.W. *see* Bolser, D.C., 110, 491  
 Eglén, R.M., Alvarez, R., Johnson, L.G., Leung, E. and Wong, E.H.F. The action of SDZ 205,557 at 5-hydroxytryptamine (5-HT<sub>2</sub> and 5-HT<sub>1</sub>) receptors, 108, 376  
 Eglén, R.M., Bley, K., Bonhaus, D.W., Clark, R.D., Hegde, S.S., Johnson, L.G., Leung, E. and Wong, E.H.F. RS 23597-190: a potent and selective 5-HT<sub>2</sub> receptor antagonist, 110, 119  
 Eglén, R.M. and Harris, G.C. Selective inactivation of muscarinic M<sub>2</sub> and M<sub>3</sub> receptors in guinea-pig ileum and atria *in vitro*, 109, 946  
 Eglezos, A. *see* Mattered, G.G., 110, 331  
 Eglezos, A., Cucchi, P., Patacchini, R., Quartara, L., Maggi, C.A. and Mizrahi, J. Differential effects of BQ-123 against endothelin-1 and endothelin-3 on the rat vas deferens: evidence for an atypical endothelin receptor, 109, 736  
 Elder, M.G. *see* Rutherford, R.A.D., 109, 544  
 Elderfield, A.J. *see* Peers, S.H., 108, 66  
 Ellis, F. *see* Gurden, M.F., 109, 693  
 Emorine, L.J. *see* Lönnqvist, F., 110, 929  
 Endoh, M. *see* Ishihata, A., 108, 999  
 Engel, G. *see* von Mandach, U., 108, 356  
 Englert, H.C. *see* Scholz, W., 109, 562  
 Entzeroth, M. *see* Wienen, W., 110, 245  
 Erb, R. *see* Holzer, P., 110, 404  
 Erkelens, D.W. *see* Kappelle, A.C., 108, 780  
 Escott, K.J. and Brain, S.D. Effect of a calcitonin gene-related peptide antagonist (CGRP<sub>8-37</sub>) on skin vasodilatation and oedema induced by stimulation of the rat saphenous nerve, 110, 772  
 Escriba, P.V. *see* Olmos, G., 108, 597  
 Esplugues, J.V., Barrachina, M.D., Calatayud, S., Pique, J.M. and Whittle, B.J.R. Nitric oxide mediates the inhibition by interleukin-18 of pentagastrin-stimulated rat gastric acid secretion, 108, 9  
 Evangelista, S. *see* Tramontana, M., 108, 431  
 Evans, B. *see* Gurden, M.F., 109, 693  
 Evans, R.G., Haynes, J.M. and Ludbrook, J. Effects of 5-HT-receptor and  $\alpha_1$ -adrenoceptor ligands on the haemodynamic response to acute central hypovolaemia in conscious rabbits, 109, 37  
 Evans, R.H. *see* Pook, P., 108, 179  
 Evans, R.J. and Surprenant, A. Effects of phospholipase A<sub>2</sub> inhibitors on coupling of  $\alpha_1$ -adrenoceptors to inwardly rectifying potassium currents in guinea-pig submucosal neurones, 110, 591  
 Evans, S.M. *see* Boughton-Smith, N.K., 110, 1189  
 Evans, T.W. *see* Griffiths, M.J.D., 110, 963

## F

- Fabi, F., Chiavarelli, M., Argiolas, L., Chiavarelli, R. and del Basso, P. Evidence for sympathetic neurotransmission through presynaptic N-type calcium channels in human saphenous vein, 110, 338  
 Facklam, M. and Bowery, N.G. Solubilization and characterization of GABA<sub>B</sub> receptor binding sites from porcine brain synaptic membranes, 110, 1291  
 Failli, P., Cecchi, E., Ruocco, C., Fazzini, A. and Giotti, A. Effects of L- and D-arginine and some related esters on the cytosolic mechanisms of  $\alpha$ -thrombin-induced human platelet activation, 110, 213  
 Fairbanks, L.D. *see* Rogerson, M.E., 108, 838  
 Fan, T.-P.D. *see* Hu, D.-E., 109, 14  
 Fan, T.-P.D., Hu, D.-E., Guard, S., Gresham, G.A. and Watling, K.J. Stimulation of angiogenesis by substance P and interleukin-1 in the rat and its inhibition by NK<sub>1</sub> or interleukin-1 receptor antagonists, 110, 43  
 Fan, Z. *see* Sunami, A., 110, 183  
 Farhat, M.Y., Chen, M.-F., Bhatti, T., Iqbal, A., Cathapermal, S. and Ramwell, P.W. Protection by oestradiol against the development of cardiovascular changes associated with monocrotaline pulmonary hypertension in rats, 110, 719  
 Farmer, S.C. *see* Heapy, C.G., 108, 209  
 Fattaccio, M.C. *see* Madeddu, P., 108, 651  
 Fazzini, A. *see* Failli, P., 110, 213  
 Fedele, E., Andrioli, G.C., Ruelle, A. and Raiteri, M. Release-regulating dopamine autoreceptors in human cerebral cortex, 110, 20  
 Feenstra, M.G.P. *see* van Veldhuizen, M.J.A., 109, 655  
 Fei, L., Gill, J.S., McKenna, W.J. and Camm, A.J. Effects of propafenone on calcium currents in single ventricular myocytes of guinea-pig, 109, 178  
 Felder, C.C. *see* Uhlén, S., 108, 852  
 Feldman, R.D. Insulin-mediated sensitization of adenylyl cyclase activation, 110, 1640  
 Feniuk, W. *see* Beattie, D.T., 108, 146  
 Feniuk, W. *see* Dimech, J., 109, 898  
 Feniuk, W., Dimech, J. and Humphrey, P.P.A. Characterization of somatostatin receptors in guinea-pig isolated ileum, vas deferens and right atrium, 110, 1156  
 Ferjan, I. *see* Knudsen, T., 108, 120  
 Fernández, N., García, J.L., García-Villalón, A.L., Monge, L., Gómez, B. and Diéguez, G. Cerebral blood flow and cerebrovascular reactivity after inhibition of nitric oxide synthesis in conscious goats, 110, 428  
 Fernández, N. *see* Monge, L., 109, 61  
 Ferreira, S.H., Lorenzetti, B.B. and Poole, S. Bradykinin initiates cytokine-mediated inflammatory hyperalgesia, 110, 1227  
 Ferreira, S.H. *see* Tavares-Murta, B.M., 108, 538  
 Ferrell, W.R. *see* Lam, F.Y., 108, 694  
 Ferrell, W.R. *see* Najafipour, H., 108, 79  
 Ferro, A., Kaumann, A.J. and Brown, M.J.  $\beta_1$ - and  $\beta_2$ -adrenoceptor-mediated relaxation in human internal mammary artery and saphenous vein: unchanged  $\beta$ - and  $\alpha$ -adrenoceptor responsiveness after chronic  $\beta_1$ -adrenoceptor blockade, 109, 1053  
 Figini, M. *see* Santicoli, P., 110, 609  
 File, S.E. *see* Andrews, N., 109, 171  
 File, J.G., Battistini, B. and Sirois, P. Induction by endothelin-1 of epithelium-dependent relaxation of guinea-pig trachea *in vitro*: role for nitric oxide, 109, 637  
 File, J.G., Földes-File, É., Rousseau, A., Sirois, P. and Fournier, A. Vascular responses to endothelin-1 following inhibition of nitric oxide synthesis in the conscious rat, 110, 1213  
 File, J.G., Földes-File, É. and Sirois, P. Nitric oxide modulates vascular permeability in the rat coronary circulation, 108, 323  
 File, J.G., Sirois, M.G., Földes-File, É., Rousseau, A., Plante, G.E., Fournier, A., Yano, M. and Sirois, P. Enhancement by endothelin-1 of microvascular permeability via the activation of ET<sub>A</sub> receptors, 109, 880  
 File, J.G. and Földes-File, É. Modulation by nitric oxide of platelet-activating factor-induced albumin extravasation in the conscious rat, 110, 1347  
 Filippi, S. *see* Mantelli, L., 109, 1268  
 Finberg, J.P.M., Levy, S. and Vardi, Y. Inhibition of nerve stimulation-induced vasodilatation in corpora cavernosa of the pithed rat by blockade of nitric oxide synthase, 108, 1038  
 Finta, E.P., Harms, L., Sevcik, J., Fischer, H.-D. and Illes, P. Effects of potassium channel openers and their antagonists on rat locus coeruleus neurones, 109, 308  
 Fischer, H.-D. *see* Finta, E.P., 109, 308  
 Flaherty, C. *see* Matthews, E.K., 110, 1248  
 Fletcher, E.J., Church, J., Abdel-Hamid, K. and MacDonald, J.F. Selective reduction of N-methyl-D-aspartate-evoked responses by 1,3-di(2-tolyl)guanidine in mouse and rat cultured hippocampal pyramidal neurones, 109, 1196  
 Flower, R.J. *see* Ahluwalia, A., 108, 544  
 Flower, R.J. *see* Cirino, G., 108, 573  
 Flower, R.J. *see* Duncan, G.S., 108, 62  
 Flower, R.J. *see* Peers, S.H., 108, 66  
 Flower, R.J. *see* Perretti, M., 110, 868  
 Foale, R.D. *see* Baydoun, A.R., 109, 987  
 Folco, G. *see* Sala, A., 110, 1206  
 Földes-File, É. *see* File, J.G., 108, 323  
 Földes-File, É. *see* File, J.G., 109, 880  
 Földes-File, É. *see* File, J.G., 110, 1213  
 Földes-File, É. *see* File, J.G., 110, 1347  
 Folkerts, G., De Clerck, F., Reijnart, I., Span, P. and Nijkamp, F.P. Virus-induced airway hyperresponsiveness in the guinea-pig: possible involvement of histamine and inflammatory cells, 108, 1083  
 Follenfant, R.L. *see* Boughton-Smith, N.K., 110, 896  
 Forder, R. *see* Duncan, G.S., 108, 62  
 Foreman, J.C. *see* Austin, C.E., 110, 113  
 Fornhem, C. *see* Alving, K., 110, 739  
 Foster, G.A. *see* Jones, R.B., 108, 1111

- Foster, M. *see* Gurden, M.F., 109, 693  
 Foster, R.W. *see* Chiu, P., 109, 1149  
 Foster, R.W. *see* Cook, S.J., 109, 1140  
 Fournier, A. *see* Benchekroun, M.T., 109, 902  
 Fournier, A. *see* Filep, J.G., 109, 880  
 Fournier, A. *see* Filep, J.G., 110, 1213  
 Fozard, J.R. and Carruthers, A.M. Adenosine A<sub>3</sub> receptors mediate hypotension in the angiotensin II-supported circulation of the pithed rat, 109, 3  
 Fozard, J.R. and Milavec-Krizman, M. Contraction of the rat isolated spleen mediated by adenosine A<sub>1</sub> receptor activation, 109, 1059  
 Fozard, J.R. *see* Sharp, T., 109, 699  
 Fracasso, C. *see* Caccia, S., 110, 355  
 Fracasso, C. *see* Grignaschi, G., 109, 491  
 Fraser, S. *see* Kenny, B.A., 108, 93  
 Fredholm, B.B. and Hu, P.-S. Effect of an intracellular calcium chelator on the regulation of electrically evoked [<sup>3</sup>H]-noradrenaline release from rat hippocampal slices, 108, 126  
 Freissmuth, M., Beindl, W. and Kratzel, M. Binding and structure-activity-relation of benzo[*f*]isoquinoline- and norcodeinone-derivatives at  $\mu$ -opioid receptors in the rat cerebral cortex, 110, 1429  
 Frelin, C. *see* Van Renterghem, C., 109, 859  
 Frew, J.D., Paisley, K. and Martin, W. Selective inhibition of basal but not agonist-stimulated activity of nitric oxide in rat aorta by N<sup>G</sup>-monomethyl-L-arginine, 110, 1003  
 Frew, J.D. *see* Berman, R.S., 110, 1282  
 Fricker, G. *see* Drewe, J., 108, 298  
 Frodsham, G. *see* Jones, R.B., 108, 1111  
 Froget-Léon, C. *see* Archipoff, G., 109, 18  
 Fu, W.-M., Yang, S.-H. and Lin-Shiau, S.-Y. Potentiation of miniature endplate potential frequency by ATP in *Xenopus* tadpoles, 108, 236  
 Fu, W.-M. and Lin, J.-L. Activation of protein kinase C potentiates postsynaptic acetylcholine response at developing neuromuscular synapses, 110, 707  
 Fu, W.M. *see* Hsu, K.S., 110, 163  
 Fujita, K. *see* Tsunoda, H., 110, 1437  
 Fukamachi, Y. *see* Kakei, M., 109, 1226  
 Fukushima, H. *see* Harada, K., 109, 679  
 Fukushima, H. *see* Miwa, A., 109, 632  
 Fukushima, S. and Ohhashi, T. Acetylcholine-induced endothelium-independent relaxations in monkey isolated superior and inferior caval veins, 109, 992  
 Fukushima, T. *see* Sekizawa, K., 110, 816  
 Fukuuchi, Y. *see* Kobari, M., 110, 1445  
 Fusi, F. *see* Sgaragli, G.P., 110, 369
- ## G
- Gabilondo, A.M. *see* Olmos, G., 108, 597  
 Gaffen, Z. *see* Moore, P.K., 110, 219  
 Gaffen, Z.A. *see* Moore, P.K., 108, 296  
 Gailly, Ph., Boland, B., Paques, C., Himpens, B., Casteels, R. and Gillis, J.M. Post-receptor pathway of the ATP-induced relaxation in smooth muscle of the mouse vas deferens, 110, 326  
 Galitzky, J. *see* Berlan, M., 108, 927  
 Galland, B.C. and Blackman, J.G. Enhancement of airway reactivity to histamine by isoprenaline and related  $\beta$ -adrenoceptor agonists in the guinea-pig, 108, 1016  
 Gandía, L. *see* Garcez-Do-Carmo, L., 110, 1149  
 Gando, S., Hattori, Y. and Kanno, M. Altered cardiac adrenergic neurotransmission in streptozotocin-induced diabetic rats, 109, 1276  
 Gao, Y. and Vanhoutte, P.M. Attenuation of contractions to acetylcholine in canine bronchi by an endogenous nitric oxide-like substance, 109, 887  
 Garattini, S. *see* Caccia, S., 110, 355  
 Garcez-Do-Carmo, L., Albillos, A., Artalejo, A.R., de la Fuente, M.-T., López, M.G., Gandía, L., Michelena, P. and García, A.G. R56865 inhibits catecholamine release from bovine chromaffin cells by blocking calcium channels, 110, 1149  
 García, A.G. *see* Garcez-Do-Carmo, L., 110, 1149  
 García, J.L. *see* Fernández, N., 110, 428  
 García, J.L. *see* Monge, L., 109, 61  
 García, P. *see* Hernández, M., 110, 1413  
 García, R. *see* Brownlie, R.P., 110, 1600  
 García Rafanell, J. *see* Perez-Vizcaino, F., 110, 1165  
 García-Sacristán, A. *see* Hernández, M., 110, 1413  
 García-Sacristán, A. *see* Simonsen, U., 109, 998  
 García-Sevilla, J.A. *see* Olmos, G., 108, 597  
 García-Sevilla, J.A. *see* Ribas, C., 110, 99  
 García-Villalón, A.L. *see* Fernández, N., 110, 428  
 García-Villalón, A.L. *see* Monge, L., 109, 61  
 Gardiner, S.M., Kemp, P.A., Bennett, T., Palmer, R.M.J. and Moncada, S. Regional and cardiac haemodynamic effects of N<sup>G</sup>, N<sup>G</sup>-dimethyl-L-arginine and their reversibility by vasodilators in conscious rats, 110, 1457  
 Gardiner, S.M., Kemp, P.A., March, J.E. and Bennett, T. Regional haemodynamic effects of angiotensin II (3-8) in conscious rats, 110, 159  
 Gardiner, S.M., Kemp, P.A. and Bennett, T. Differential effects of captopril on regional haemodynamic responses to angiotensin I and bradykinin in conscious rats, 108, 769  
 Gardiner, S.M., Kemp, P.A. and Bennett, T. Effects of chronic treatment with nitric oxide synthase inhibitors on regional haemodynamic responses to vasodilators in conscious Brattleboro rats, 109, 222  
 Gardiner, S.M., Kemp, P.A. and Bennett, T. Regional haemodynamic responses to intravenous and intraarterial endothelin-1 and big endothelin-1 in conscious rats, 110, 1532  
 Gardiner, S.M. *see* Widdop, R.E., 108, 684  
 Garland, C.J. *see* Plane, F., 110, 651  
 Garland, L.G. *see* Boughton-Smith, N.K., 110, 896  
 Garret, C. *see* Moussaoui, S.M., 109, 259  
 Garssen, J., Van Loveren, H., Gierveld, C.M., Van Der Vliet, H. and Nijkamp, F.P. Functional characterization of muscarinic receptors in murine airways, 109, 53  
 Gaspo, R. *see* Chahine, R., 108, 318  
 Gautier, E. *see* Lefèvre-Borg, F., 109, 1282  
 Gaviraghi, G. *see* Corsi, M., 108, 1164  
 Gaviraghi, G. *see* Tacconi, S., 108, 577  
 Ge, J. *see* Cheng, C.H.K., 110, 1079  
 Geboes, K. *see* Nijs, G., 108, 269  
 Geppetti, P. *see* Tramontana, M., 108, 431  
 Geppetti, P., Bertrand, C., Baker, J., Yamawaki, I., Piedimonte, G. and Nadel, J.A. Ruthenium red, but not capsazepine reduces plasma extravasation by cigarette smoke in rat airways, 108, 646  
 Gerskowitch, V.P. *see* Hull, R.A.D., 108, 734  
 Gerthoffer, W.T. *see* Khoyi, M.A., 110, 1353  
 Gertner, S.B. *see* McLeod, R.L., 110, 553  
 Gessa, G.L. *see* Del Zompo, M., 109, 411  
 Ghaleh, B. *see* Richard, V., 110, 969  
 Gibson, I.F. *see* Martin, W., 108, 242  
 Giembycz, M.A., Diamond, J. and Rodger, I.W. Leukotriene D<sub>4</sub> receptors are not negatively coupled to adenylyl cyclase in guinea-pig lung parenchyma, 108, 824  
 Giertz, H. *see* Driessen, B., 108, 806  
 Gierveld, C.M. *see* Garssen, J., 109, 53  
 Gill, E.W. *see* White, E., 110, 95  
 Gill, J.S. *see* Fei, L., 109, 178  
 Gillespie, J.S. *see* Martin, W., 108, 242  
 Gillis, J.M. *see* Boland, B., 108, 749  
 Gillis, J.M. *see* Gailly, Ph., 110, 326  
 Giotti, A. *see* Failli, P., 110, 213  
 Gispén, W.H. *see* Kappelle, A.C., 108, 780  
 Gispén, W.H. *see* Schipper, N.G.M., 110, 1335  
 Giudicelli, J.-F. *see* Richard, V., 110, 969  
 Giuliani, S. *see* Maggi, C.A., 108, 801  
 Giuliani, S. *see* Tramontana, M., 108, 431  
 Glorioso, N. *see* Madeddu, P., 108, 651  
 Glossmann, H. *see* Strübing, C., 108, 884  
 Glowinski, J. *see* Beaujouan, J.-C., 108, 793  
 Gloy, J. *see* Pavenstädt, H., 109, 953  
 Goadsby, P.J. *see* Kaube, H., 109, 788  
 Godfraind, T. Evidence for heterogeneity of endothelin receptor distribution in human coronary artery, 110, 1201  
 Godfraind, T. *see* Salomone, S., 109, 100  
 Goldstein, D.S. *see* Yadid, G., 110, 50  
 Golomb, E. *see* Abassi, Z.A., 109, 1024  
 Golomb, E. *see* Yadid, G., 110, 50  
 Gómez, B. *see* Fernández, N., 110, 428

- Gómez, B. *see* Monge, L., 109, 61  
 Gomez, L.A. *see* Perez-Vizcaino, F., 110, 1165  
 Gonzalez, M.P. *see* Oset-Gasque, M.J., 110, 1586  
 Gopalakrishnan, V. *see* Xu, Y., 108, 6  
 Gordon, L. *see* Rutherford, R.A.D., 109, 544  
 Gorelli, B. *see* Sgaragli, G.P., 110, 369  
 Gorenne, I. *see* Norel, X., 108, 914  
 Gosden, J. *see* Luscombe, G.P., 108, 669  
 Goso, C. *see* Parlani, M., 110, 989  
 Göthert, M. *see* Bönisch, H., 108, 436  
 Goto, K. *see* Tsunoda, H., 110, 1437  
 Graupner, J. *see* Bönisch, H., 108, 436  
 Graves, J. and Poston, L.  $\beta$ -Adrenoceptor agonist mediated relaxation of rat isolated resistance arteries: a role for the endothelium and nitric oxide, 108, 631  
 Gray, G.A. *see* Schott, C.A., 108, 38  
 Green, A.R. *see* Baldwin, H.A., 108, 590  
 Green, A.R. *see* Colado, M.I., 108, 583  
 Green, M. *see* Growcott, J.W., 110, 1375  
 Greenwood, I.A. and Weston, A.H. Effects of rubidium on responses to potassium channel openers in rat isolated aorta, 109, 925  
 Greger, R. *see* Pavenstädt, H., 109, 953  
 Grenay, H. *see* Bricca, G., 110, 1537  
 Gresele, P. *see* Paul, W., 110, 1565  
 Gresham, G.A. *see* Fan, T.-P.D., 110, 43  
 Griesbacher, T., Tiran, B. and Lembeck, F. Pathological events in experimental acute pancreatitis prevented by the bradykinin antagonist, Hoe 140, 108, 405  
 Griffin, G. *see* Pertwee, R.G., 110, 1483  
 Griffith, D. *see* Atack, J.R., 110, 809  
 Griffith, T.M. *see* Randall, M.D., 109, 386  
 Griffith, T.M. *see* Randall, M.D., 109, 838  
 Griffiths, M.J.D., Messent, M., MacAllister, R.J. and Evans, T.W. Aminoguanidine selectively inhibits inducible nitric oxide synthase, 110, 963  
 Griffiths, N.M., Hirst, B.H. and Simmons, N.L. Active secretion of the fluoroquinolone ciprofloxacin by human intestinal epithelial Caco-2 cell layers, 108, 575  
 Grignaschi, G., Mantelli, B., Fracasso, C., Anelli, M., Caccia, S. and Samanin, R. Reciprocal interaction of 5-hydroxytryptamine and cholecystokinin in the control of feeding patterns in rats, 109, 491  
 Gristwood, R.W. *see* Cortijo, J., 108, 562  
 Grose, J.H. *see* Levesque, L., 109, 1254  
 Grossman, C.J., Kilpatrick, G.J. and Bunce, K.T. Development of a radioligand binding assay for 5-HT<sub>4</sub> receptors in guinea-pig and rat brain, 109, 618  
 Growcott, J.W., Holloway, B., Green, M. and Wilson, C. Zeneca ZD7114 acts as an antagonist at  $\beta_3$ -adrenoceptors in rat isolated ileum, 110, 1375  
 Growcott, J.W., Wilson, C., Holloway, B. and Mainwaring, S. Evaluation of ICI D7114, a putative stimulant of brown adipocytes, on histamine-contracted guinea-pig ileum, 109, 1212  
 Grundström, N. *see* Svensson, S.P.S., 110, 54  
 Gryglewski, R.J. *see* Zembowicz, A., 110, 151  
 Guard, S., Boyle, S.J., Tang, K.-W., Watling, K.J., McKnight, A.T. and Woodruff, G.N. The interaction of the NK<sub>1</sub> receptor antagonist CP-96,345 with L-type calcium channels and its functional consequences, 110, 385  
 Guard, S. *see* Fan, T.-P.D., 110, 43  
 Guarini, S., Bazzani, C. and Bertolini, A. Role of neuronal and vascular Ca<sup>2+</sup>-channels in the ACTH-induced reversal of haemorrhagic shock, 109, 645  
 Gubler, H.P. *see* von Mandach, U., 108, 356  
 Gueremy, T. *see* Turner, N.C., 108, 876  
 Guevremont, D. *see* Tousignant, C., 108, 383  
 Guo, J.-Z., Yoshioka, K., Yanagisawa, M., Hosoki, R., Hagan, R.M. and Otsuka, M. Depression of primary afferent-evoked responses by GR71251 in the isolated spinal cord of the neonatal rat, 110, 1142  
 Gupta, P. *see* Lattimer, N., 109, 1192  
 Gurden, J.M. *see* White, D.G., 108, 763  
 Gurden, M.F., Coates, J., Ellis, F., Evans, B., Foster, M., Hornby, E., Kennedy, I., Martin, D.P., Strong, P., Vardey, C.J. and Wheeldon, A. Functional characterization of three adenosine receptor types, 109, 693  
 Gustafsson, L.E. *see* Wiklund, C.U., 110, 833
- H**
- Habara, Y. and Kanno, T. Dual effects of chlorobutanol on secretory response and intracellular Ca<sup>2+</sup> dynamics in isolated pancreatic acini of the rat, 109, 685  
 Habara, Y. and Kanno, T. Erratum, 110, 1271  
 Habara, Y. *see* Ikei, N., 110, 603  
 Hadingham, K.L. *see* Horne, A.L., 108, 711  
 Hadj-Kaddour, K. *see* Michel, A., 110, 1031  
 Hagan, R.M. *see* Guo, J.-Z., 110, 1142  
 Håkanson, R. *see* Wang, Z.-Y., 110, 1073  
 Hale, J.J. *see* Tousignant, C., 108, 383  
 Halfhide, E.J. *see* Hourani, S.M.O., 108, 754  
 Hall, A.S., Bryson, S.E., Vaughan, P.F.T., Ball, S.G. and Balmforth, A.J. Pharmacological characterization of the dopamine receptor coupled to cyclic AMP formation expressed by rat mesenteric artery vascular smooth muscle cells in culture, 110, 681  
 Hall, D.A. and Hourani, S.M.O. Effects of analogues of adenine nucleotides on increases in intracellular calcium mediated by P<sub>2U</sub> purinoceptors on human blood platelets, 108, 728  
 Hall, D.V. *see* Waschulewski, I.H., 108, 892  
 Hall, J.M., Mitchell, D. and Morton, I.K.M. Tachykinin receptors mediating responses to sensory nerve stimulation and exogenous tachykinins and analogues in the rabbit isolated iris sphincter, 109, 1008  
 Hamaguchi, K. *see* Miyake, A., 110, 447  
 Hamamura, M. *see* Luckman, S.M., 110, 378  
 Hamill, O.P. *see* Lane, J.W., 108, 116  
 Hamilton, B.J. *see* Im, W.B., 110, 677  
 Handley, S.L. *see* Dursun, S.M., 109, 1046  
 Harada, K., Miwa, A., Kaneta, S., Izawa, T., Fukushima, H. and Ogawa, N. Effects of KRN2391, nicorandil and diltiazem on the changes in the electrocardiogram caused by endothelin-1 in anaesthetized rats, 109, 679  
 Harata, N. *see* Uneyama, H., 109, 459  
 Harding, P., Stonier, C. and Aber, G.M. Dose-dependent effects of angiotensin converting enzyme (ACE) inhibitors on glomerular prostanoid production by normotensive rats, 108, 327  
 Harding, S.E. *see* Wynne, D.G., 109, 1071  
 Hardwick, J.C. and Parsons, R.L. Mechanism of staurosporine-induced decrease in acetylcholine receptor recovery from desensitization, 108, 741  
 Hardwick, J.C. and Parsons, R.L. Necessity of divalent cations for recovery from carbachol-induced nicotinic acetylcholine receptor inactivation at snake twitch fibre endplates, 110, 889  
 Hargreaves, R.J., Rigby, M., Smith, D. and Hill, R.G. Lack of effect of L-687,414 ((+)-*cis*-4-methyl-HA-966), an NMDA receptor antagonist acting at the glycine site, on cerebral glucose metabolism and cortical neuronal morphology, 110, 36  
 Hargreaves, R.J. *see* Beer, M.S., 110, 1196  
 Hargreaves, R.J. *see* Laird, J.M.A., 109, 713  
 Hargreaves, R.J. *see* Shephard, S.L., 108, 11  
 Harkness, P.C. *see* Horne, A.L., 108, 711  
 Harms, L. *see* Finta, E.P., 109, 308  
 Harper, D. *see* Leff, P., 110, 239  
 Harper, E.A. *see* Hull, R.A.D., 108, 734  
 Harris, G.C. *see* Eglen, R.M., 109, 946  
 Harrison, P.J. *see* Connolly, G.P., 110, 1297  
 Hart, S.L. *see* Babbedge, R.C., 110, 225  
 Hart, S.L. *see* Moore, P.K., 108, 296  
 Hart, S.L. *see* Moore, P.K., 110, 219  
 Harvey, A.L. *see* Hollecker, M., 110, 790  
 Harvey, J. and Collingridge, G.L. Signal transduction pathways involved in the acute potentiation of NMDA responses by 1S,3R-ACPD in rat hippocampal slices, 109, 1085  
 Harvey-White, J.D. *see* Yadid, G., 110, 50  
 Hashimoto, M., Shinozaki, Y. and Katori, M. Immediate inhibitory effect of methylprednisolone sultepanate (U-67590A) on antigen-induced cutaneous and airway anaphylactic responses in guinea-pigs, 108, 604  
 Hasséssian, H., Bodin, P. and Burnstock, G. Blockade by glibenclamide of the flow-evoked endothelial release of ATP that contributes to vasodilatation in the pulmonary vascular bed of the rat, 109, 466  
 Hata, F. *see* Suthamnatpong, N., 108, 348  
 Hatch, J. *see* Vargas, R., 109, 612

- Hatchett, R.J. *see* Zembowicz, A., 110, 151
- Hattori, Y., Takeda, Y., Nakaya, H. and Kanno, M. Induction by endogenous noradrenaline of an  $\alpha_1$ -adrenoceptor-mediated positive inotropic effect in rabbit papillary muscles, 109, 1232
- Hattori, Y. *see* Gando, S., 109, 1276
- Hauel, N. *see* Wienen, W., 110, 245
- Hawcock, A.B. and Barnes, J.C. Pharmacological characterization of the contractile responses to angiotensin analogues in guinea-pig isolated longitudinal muscle of small intestine, 108, 1150
- Hawkins, N.S. *see* Pook, P., 108, 179
- Hay, D.W.P., Hubbard, W.C. and Undem, B.J. Endothelin-induced contraction and mediator release in human bronchus, 110, 392
- Hay, D.W.P., Hubbard, W.C. and Undem, B.J. Relative contributions of direct and indirect mechanisms mediating endothelin-induced contraction of guinea-pig trachea, 110, 955
- Hay, D.W.P., Luttmann, M.A., Hubbard, W.C. and Undem, B.J. Endothelin receptor subtypes in human and guinea-pig pulmonary tissues, 110, 1175
- Hayashi, S. *see* Maeda, K., 108, 1077
- Haynes, J.M. *see* Evans, R.G., 109, 37
- Headley, P.M. *see* Herrero, J.F., 110, 303
- Heal, D.J. *see* Cheetham, S.C., 110, 1621
- Heal, D.J. *see* Luscombe, G.P., 108, 669
- Heald, A. *see* Beer, M.S., 110, 1196
- Heapy, C.G., Shaw, J.S. and Farmer, S.C. Differential sensitivity of antinociceptive assays to the bradykinin antagonist Hoe 140, 108, 209
- Hecker, M. *see* Macarthur, H., 108, 100
- Hegde, S.S. *see* Eglén, R.M., 110, 119
- Heinemann, A. *see* Holzer, P., 110, 404
- Heinsbroek, R.P.W. *see* van Veldhuizen, M.J.A., 109, 655
- Hellewell, P.G. *see* Teixeira, M.M., 110, 416
- Hellewell, P.G. *see* Teixeira, M.M., 110, 1496
- Hellewell, P.G. *see* Teixeira, M.M., 110, 1515
- Hempelmann, R.G. and Ziegler, A. Endothelium-dependent noradrenaline-induced relaxation of rat isolated cerebral arteries: pharmacological characterization of receptor subtypes involved, 110, 1321
- Henderson, C.G. *see* Tweedie, D., 110, 1222
- Henderson, R.M. and Cuthbert, A.W. Activation of ion channels by lysylbradykinin in the HCA-7 colony 29 human adenocarcinoma cell line, 108, 479
- Hendry, I.A. *see* Hill, C.E., 110, 281
- Henning, R.H., Duin, M., den Hertog, A. and Nelemans, A. Activation of the phospholipase C pathway by ATP is mediated exclusively through nucleotide type  $P_2$ -purinoceptors in C2C12 myotubes, 110, 747
- Henning, R.H., Duin, M., den Hertog, A. and Nelemans, A. Characterization of  $P_2$ -purinoceptor mediated cyclic AMP formation in mouse C2C12 myotubes, 110, 133
- Henning, R.H., Nelemans, A., Houwertjes, M. and Agoston, S. Reversal by suramin of neuromuscular block produced by pancuronium in the anesthetized rat, 108, 717
- Henry, P.J. Endothelin-1 (ET-1)-induced contraction in rat isolated trachea: involvement of  $ET_A$  and  $ET_B$  receptors and multiple signal transduction systems, 110, 435
- Henzel, D. *see* Delgado, C., 108, 721
- Herbert, C.A., Edwards, D., Boot, J.R. and Robinson, C. Stimulated eosinophils and proteinases augment the transepithelial flux of albumin in bovine bronchial mucosa, 110, 840
- Herd, C.M. *see* Sasaki, M., 110, 107
- Hering, S. *see* Strübing, C., 108, 884
- Herman, A.G. *see* Boeckxstaens, G.E., 109, 1079
- Herman, A.G. *see* Boeckxstaens, G.E., 110, 1329
- Herman, A.G. *see* De Man, J.G., 110, 559
- Hermans, J.J.R. and Thijssen, H.H.W. Human liver microsomal metabolism of the enantiomers of warfarin and acenocoumarol: P450 isozyme diversity determines the differences in their pharmacokinetics, 110, 482
- Hernández, F., Kendall, D.A. and Alexander, S.P.H. Adenosine receptor-induced second messenger production in adult guinea-pig cerebellum, 110, 1085
- Hernández, M., Simonsen, U., Prieto, D., Rivera, L., García, P., Ordaz, E. and García-Sacristán, A. Different muscarinic receptor subtypes mediating the phasic activity and basal tone of pig isolated intravesical ureter, 110, 1413
- Hernández, M. *see* Simonsen, U., 109, 998
- Herrero, J.F. and Headley, P.M. Functional evidence for multiple receptor activation by  $\kappa$ -ligands in the inhibition of spinal nociceptive reflexes in the rat, 110, 303
- Hester, S. *see* Varro, A., 109, 895
- Heuillet, E. *see* Beaujouan, J.-C., 108, 793
- Hey, J.A. *see* McLeod, R.L., 110, 553
- Hicks, P.E. *see* Brown, C.M., 108, 516
- Hicks, P.E. *see* Lefèvre-Borg, F., 109, 1282
- Hieble, J.P. and Kolpak, D.C. Mediation of the hypotensive action of systemic clonidine in the rat by  $\alpha_2$ -adrenoceptors, 110, 1635
- Higashino, M. *see* Tokuhara, T., 110, 297
- Higenbottam, T.W. *see* Dinh-Xuan, A.T., 109, 587
- Higgins, M.J. and Stone, T.W. Bicuculline-resistant paired-pulse inhibition in the rat hippocampal slice, 109, 1164
- Higo, K. *see* Nakazawa, K., 109, 137
- Hill, C.E., Powis, D.A. and Hendry, I.A. Involvement of pertussis toxin-sensitive and -insensitive mechanisms in  $\alpha$ -adrenoceptor modulation of noradrenaline release from rat sympathetic neurones in tissue culture, 110, 281
- Hill, R.G. *see* Hargreaves, R.J., 110, 36
- Hill, R.G. *see* Laird, J.M.A., 109, 713
- Hill, R.G. *see* Rupniak, N.M.J., 110, 1607
- Hill, R.G. *see* Shephard, S.L., 108, 11
- Hill, S.J. *see* Dickenson, J.M., 108, 85
- Hill, S.J. *see* Dickenson, J.M., 109, 719
- Hill, S.J. *see* Dickenson, J.M., 110, 1449
- Hill, S.J. *see* Iredale, P.A., 110, 1305
- Hill, S.J. *see* McCrea, K.E., 110, 619
- Hill, S.J. *see* Marsh, K.A., 110, 29
- Hill, S.J. *see* White, T.E., 108, 196
- Hillaire-Buys, D., Bertrand, G., Chapal, J., Puech, R., Ribes, G. and Loubatières-Mariani, M.M. Stimulation of insulin secretion and improvement of glucose tolerance in rat and dog by the  $P_{2y}$ -purinoceptor agonist, adenosine-5'-O-(2-thiodiphosphate), 109, 183
- Hillhouse, E.W. and Mosley, K. Peripheral endotoxin induces hypothalamic immunoreactive interleukin-18 in the rat, 109, 289
- Hillhouse, E.W. *see* Milton, N.G.N., 109, 88
- Himpens, B. *see* Boland, B., 108, 749
- Himpens, B. *see* Gailly, Ph., 110, 326
- Hirafuji, M. and Shinoda, H. Roles of prostacyclin, EDRF and active oxygens in leukocyte-dependent platelet adhesion to endothelial cells induced by platelet-activating factor *in vitro*, 109, 524
- Hirano, K. *see* Watanabe, C., 108, 30
- Hiraoka, M. *see* Sunami, A., 110, 183
- Hiraoka, M. *see* Yamane, T.-i., 108, 812
- Hirata, A. *see* Yakushiji, T., 109, 819
- Hirayama, Y., Lei, Y.-H., Barnes, P.J. and Rogers, D.F. Effects of two novel tachykinin antagonists, FK224 and FK888, on neurogenic airway plasma exudation, bronchoconstriction and systemic hypotension in guinea-pigs *in vivo*, 108, 844
- Hirst, B.H. *see* Griffiths, N.M., 108, 575
- Hisayama, T. *see* Kurata, R., 110, 875
- Hisayama, T. *see* Moritoki, H., 108, 1125
- Hishinuma, S., Matsumoto, Y., Uchida, M.K. and Kurokawa, M. Novel regulation of muscarinic receptors and their coupling with G proteins in smooth muscle: transient resensitization during desensitizing process, 109, 330
- Högestätt, E.D. *see* Zygmunt, P.M., 110, 1285
- Holgate, S.T. *see* Omari, T., 109, 553
- Hollecker, M., Marshall, D.L. and Harvey, A.L. Structural features important for the biological activity of the potassium channel blocking dendrotoxins, 110, 790
- Holloway, B. *see* Growcott, J.W., 109, 1212
- Holloway, B. *see* Growcott, J.W., 110, 1375
- Holzer, P., Lippe, I.Th., Jocič, M., Wachter, Ch., Erb, R. and Heinemann, A. Nitric oxide-dependent and -independent hyperaemia due to calcitonin gene-related peptide in the rat stomach, 110, 404
- Honda, H. *see* Watanabe, A., 109, 29
- Honda, K. *see* Miyake, A., 110, 447
- Hong, M., Sutak, M. and Jhamandas, K. Inhibition of spinal opioid antinociception by intrathecal  $\beta$ -endorphin<sub>1-27</sub> in the rat, 108, 1137
- Hong, S.J. and Chang, C.C. Transmitter-mediated local contracture of the endplate region of the focally innervated mouse diaphragm treated with anticholinesterase, 109, 1178

- Honrubia, M.A. *see* Orallo, F., 110, 943
- Hoorn, C.M. and Roth, R.A. Monocrotaline pyrrole-induced changes in angiotensin-converting enzyme activity of cultured pulmonary artery endothelial cells, 110, 597
- Hori, M., Sato, K., Miyamoto, S., Ozaki, H. and Karaki, H. Different pathways of calcium sensitization activated by receptor agonists and phorbol esters in vascular smooth muscle, 110, 1527
- Hori, M. *see* Karaki, H., 109, 486
- Hornby, E. *see* Gurden, M.F., 109, 693
- Horne, A.L., Harkness, P.C., Hadingham, K.L., Whiting, P. and Kemp, J.A. The influence of the  $\gamma_{21}$  subunit on the modulation of responses to GABA<sub>A</sub> receptor activation, 108, 711
- Hoskin, K.L. *see* Kaube, H., 109, 788
- Hosohata, Y. *see* Satoh, E., 108, 484
- Hosoki, R. *see* Guo, J.-Z., 110, 1142
- Hourani, S.M.O., Johnson, C.R. and Bailey, S.J. Desensitization of the P<sub>2</sub>-purinoceptors on the rat colon muscularis mucosae, 110, 501
- Hourani, S.M.O., Nicholls, J., Lee, B.S.S., Halfhide, E.J. and Kitchen, I. Characterization and ontogeny of P<sub>1</sub>-purinoceptors on rat vas deferens, 108, 754
- Hourani, S.M.O. *see* Hall, D.A., 108, 728
- House, F. *see* Stevens, E.J., 109, 980
- Houwertjes, M. *see* Henning, R.H., 108, 717
- Hoyer, D. *see* Sharp, T., 109, 699
- Hoyle, C.H.V. *see* Ziganshin, A.U., 110, 1491
- Hsieh, J.-T. *see* Yang, C.M., 110, 1239
- Hsu, K.S., Fu, W.M. and Lin-Shiau, S.Y. Blockade by 2,2',2''-tripyrindine of the nicotinic acetylcholine receptor channels in embryonic *Xenopus* muscle cells, 110, 163
- Hu, D.-E. and Fan, T.-P.D. [Leu<sup>8</sup>]des-Arg<sup>9</sup>-bradykinin inhibits the angiogenic effect of bradykinin and interleukin-1 in rats, 109, 14
- Hu, D.-E. *see* Fan, T.-P.D., 110, 43
- Hu, P.-S. *see* Fredholm, B.B., 108, 126
- Hu, W., McNicholl, I.K., Choy, P.C. and Man, R.Y.K. Partial agonist effect of the platelet-activating factor receptor antagonists, WEB 2086 and WEB 2170, in the rat perfused heart, 110, 645
- Huang, H.-C., Weng, Y.-I., Lee, C.-R., Jan, T.-R., Chen, Y.-L. and Lee, Y.-T. Protection by scopolamine against the alterations of plasma lipoproteins, vascular morphology and vascular reactivity in hyperlipidaemic diabetic rabbit, 110, 1508
- Huang, S.-M. *see* Katayama, N., 109, 1097
- Huang, Z., Byun, B., Matsubara, T. and Moskowitz, M.A. Time-dependent blockade of neurogenic plasma extravasation in dura mater by 5-HT<sub>1B/D</sub> agonists and endopeptidase 24.11, 108, 331
- Hubbard, W.C. *see* Hay, D.W.P., 110, 392
- Hubbard, W.C. *see* Hay, D.W.P., 110, 955
- Hubbard, W.C. *see* Hay, D.W.P., 110, 1175
- Huch, A. *see* von Mandach, U., 108, 356
- Huch, R. *see* von Mandach, U., 108, 356
- Hughes, A.D. and Wijetunge, S. The action of amlodipine on voltage-operated calcium channels in vascular smooth muscle, 109, 120
- Hui, S.-C.G., Sevilla, E.L. and Ogle, C.W. 5-HT<sub>3</sub> antagonists reduce morphine self-administration in rats, 110, 1341
- Hull, R.A.D., Shankley, N.P., Harper, E.A., Gerskowitch, V.P. and Black, J.W. 2-Naphthalenesulphonyl L-aspartyl-(2-phenethyl)amide (2-NAP)—a selective cholecystokinin CCK<sub>A</sub>-receptor antagonist, 108, 734
- Humphrey, P.P.A. *see* Armstrong, R.A., 110, 539
- Humphrey, P.P.A. *see* Armstrong, R.A., 110, 548
- Humphrey, P.P.A. *see* Dimech, J., 109, 898
- Humphrey, P.P.A. *see* Feniuk, W., 110, 1156
- Humphrey, P.P.A. *see* Michel, A.D., 109, 287
- Humphrey, P.P.A. *see* Trezise, D.J., 110, 1055
- Hunt, J.M. and Silinsky, E.M. Ionomycin-induced acetylcholine release and its inhibition by adenosine at frog motor nerve endings, 110, 828
- Hunter, J.O. *see* Middleton, S.J., 108, 974
- Hurrell, D.G., Perreault, C.L., Miao, L., Ransil, B.J. and Morgan, J.P. Cellular mechanism of the positive inotropic effect of hydralazine in mammalian myocardium, 109, 667
- Hussain, J.F., Kendall, D.A. and Wilson, V.G. Species-selective binding of [<sup>3</sup>H]-idazoxan to  $\alpha_2$ -adrenoceptors and non-adrenoceptor, imidazoline binding sites in the central nervous system, 109, 831
- Hutchins, L.J. *see* Luscombe, G.P., 108, 669
- Hutson, P.H. *see* Bristow, L.J., 108, 1156
- Ialenti, A., Moncada, S. and Di Rosa, M. Modulation of adjuvant arthritis by endogenous nitric oxide, 110, 701
- Iannone, M. *see* Bagetta, G., 108, 858
- Ibbotson, T., Edwards, G., Noack, Th. and Weston, A.H. Effects of P1060 and aprikalim on whole-cell currents in rat portal vein; inhibition by glibenclamide and phentolamine, 108, 991
- Ibbotson, T., Edwards, G. and Weston, A.H. Antagonism of levromakalim by imidazoline- and guanidine-derivatives in rat portal vein: involvement of the delayed rectifier, 110, 1556
- Ibbotson, T. *see* Edwards, G., 110, 1037
- Igawa, Y., Mattiasson, A. and Andersson, K.-E. Functional importance of cholinergic and purinergic neuro-transmission for micturition contraction in the normal, unanaesthetized rat, 109, 473
- Igawa, Y., Westerling, D., Mattiasson, A. and Andersson, K.-E. Effects of morphine metabolites on micturition in normal, unanaesthetized rats, 110, 257
- Ignesti, G. *see* Pirisino, R., 109, 1038
- Ikarashi, Y. *see* Sekizawa, K., 110, 816
- Ikei, N., Busik, J., Habara, Y. and Kanno, T. Competitive inhibition by procaine of carbachol-induced stimulus-secretion coupling in rat pancreatic acini, 110, 603
- Ikoma, Y. *see* Nishimura, H., 109, 443
- Illes, P. *see* Finta, E.P., 109, 308
- Illes, P. *see* Sevcik, J., 110, 169
- Im, H.K. *see* Im, W.B., 110, 677
- Im, W.B., Im, H.K., Pregenzer, J.F., Hamilton, B.J., Carter, D.B., Jacobsen, E.J., TenBrink, R.E. and Von Voigtlander, P.F. Differential affinity of dihydroimidazoquinoxalines and diimidazoquinazolines to the  $\alpha 1\beta 2\gamma 2$  and  $\alpha 6\beta 2\gamma 2$  subtypes of cloned GABA<sub>A</sub> receptors, 110, 677
- Imai, M. *see* Muto, S., 109, 673
- Imaizumi, A. *see* Arreto, C.D., 108, 412
- Imaizumi, A. *see* Renesto, P., 108, 1100
- Imaizumi, Y. *see* Uyama, Y., 110, 565
- Impicciatore, M. *see* Barocelli, E., 108, 393
- Inomata, N., Ohno, T., Ishihara, T. and Akaike, N. Antiarrhythmic agents act differently on the activation phase of the ACh-response in guinea-pig atrial myocytes, 108, 111
- Inoue, H., Nagata, N. and Koshihara, Y. Profile of capsaicin-induced mouse ear oedema as neurogenic inflammatory model: comparison with arachidonic acid-induced ear oedema, 110, 1614
- Inoue, R. *see* Chen, S., 109, 793
- Iqbal, A. *see* Farhat, M.Y., 110, 719
- Iredale, P.A. and Hill, S.J. Increases in intracellular calcium via activation of an endogenous P<sub>2</sub>-purinoceptor in cultured CHO-K1 cells, 110, 1305
- Ishida, K., Thomson, R.J. and Schellenberg, R.R. Role of leukotrienes in airway hyperresponsiveness in guinea-pigs, 108, 700
- Ishida, M., Saitoh, T., Shimamoto, K., Ohfune, Y. and Shinozaki, H. A novel metabotropic glutamate receptor agonist: marked depression of monosynaptic excitation in the newborn rat isolated spinal cord, 109, 1169
- Ishida, Y. *see* Watanabe, A., 109, 29
- Ishihara, T. *see* Inomata, N., 108, 111
- Ishihata, A. and Endoh, M. Pharmacological characteristics of the positive inotropic effect of angiotensin II in the rabbit ventricular myocardium, 108, 999
- Ishii, A. *see* Kitazawa, T., 109, 94
- Ito, K. *see* Suzuki, K., 109, 661
- Ito, K.M. *see* Suzuki, K., 109, 661
- Ito, S., Suzuki, S. and Itoh, T. Effects of a water-soluble forskolin derivative (NKH477) and a membrane-permeable cyclic AMP analogue on noradrenaline-induced Ca<sup>2+</sup> mobilization in smooth muscle of rabbit mesenteric artery, 110, 1117
- Ito, Y. *see* Chen, S., 109, 793
- Itoh, T. *see* Abe, E., 108, 387
- Itoh, T. *see* Ito, S., 110, 1117
- Itoh, T. *see* Suzuki, A., 109, 703
- Iverson, S.D. *see* Rupniak, N.M.J., 110, 1607
- Ivorra, M.D., Lugnier, C., Catret, M., Anselmi, E., Cortes, D. and D'Ocon, P. Investigations of the dual contractile/relaxant properties showed by antioquine in rat aorta, 109, 502

- Iwao, H. *see* Yamanaka, S., 110, 1501  
 Izawa, T. *see* Harada, K., 109, 679  
 Izzo, A.A. *see* Mascolo, N., 108, 861

## J

- Jacobsen, E.J. *see* Im, W.B., 110, 677  
 Jakubowski, A.M. *see* Zembowicz, A., 110, 151  
 Jan, T.-R. *see* Huang, H.-C., 110, 1508  
 Jarvis, J.E. *see* Reeves, J.J., 110, 1255  
 Jefferys, J.G.R. *see* Watts, A.E., 108, 819  
 Jeremy, J.Y., Thompson, C.S. and Mikhailidis, D.P. Differential changes of adrenoceptor- and muscarinic receptor-linked prostacyclin synthesis by the aorta and urinary bladder of the diabetic rat, 108, 1131  
 Jessup, R. *see* Brownlie, R.P., 110, 1600  
 Jessup, R. *see* McAuliffe, S.J.G., 108, 901  
 Jhamandas, K. *see* Hong, M., 108, 1137  
 Jilling, T. *see* Marczin, N., 109, 603  
 Jinno, Y. *see* Miwa, A., 109, 632  
 Jocič, M. *see* Holzer, P., 110, 404  
 Johansen, T. *see* Knudsen, T., 108, 120  
 Johansson, K. *see* Persson, K., 110, 521  
 Johns, A. *see* Kleha, J.F., 110, 1473  
 Johnson, C.R. *see* Hourani, S.M.O., 110, 501  
 Johnson, L.G. *see* Eglen, R.M., 108, 376  
 Johnson, L.G. *see* Eglen, R.M., 110, 119  
 Johnson, M. *see* Nials, A.T., 108, 507  
 Johnson, M. *see* Nials, A.T., 110, 1112  
 Johnson, M. *see* Whelan, C.J., 110, 613  
 Jones, R.B., Frodsham, G., Dickinson, K. and Foster, G.A. Effect of flosequinan on ischaemia-induced arrhythmias and on ventricular cyclic nucleotide content in the anaesthetized rat, 108, 1111  
 Jones, R.L. *see* Matthews, J.S., 108, 363  
 Jordan, V.C. A current view of tamoxifen for the treatment and prevention of breast cancer, 110, 507  
 Jover, T. *see* Salom, J.B., 109, 826

## K

- Kachintorn, U., Vajanaphanich, M., Traynor-Kaplan, A.E., Dharmasathaphom, K. and Barrett, K.E. Activation by calcium alone of chloride secretion in T<sub>84</sub> epithelial cells, 109, 510  
 Kakei, M., Nakazaki, M., Kamisaki, T., Nagayama, I., Fukamachi, Y. and Tanaka, H. Inhibition of the ATP-sensitive potassium channel by class I antiarrhythmic agent, cibenzoline, in rat pancreatic  $\beta$ -cells, 109, 1226  
 Kamei, C. *see* Tsujimoto, S., 109, 807  
 Kamimura, T. *see* Renesto, P., 108, 1100  
 Kamisaki, T. *see* Kakei, M., 109, 1226  
 Kanada, A. *see* Suthamnatpong, N., 108, 348  
 Kanaide, H. *see* Watanabe, C., 108, 30  
 Kane, K.A. *see* Tweedie, D., 110, 1222  
 Kaneta, S. *see* Harada, K., 109, 679  
 Kaneta, S. *see* Miwa, A., 109, 632  
 Kang, Y.-F. *see* Yu, S.-M., 108, 1055  
 Kankaanranta, H. *see* Moilanen, E., 109, 852  
 Kanno, M. *see* Gando, S., 109, 1276  
 Kanno, M. *see* Hattori, Y., 109, 1232  
 Kanno, M. *see* Nakaya, H., 109, 157  
 Kanno, T. *see* Habara, Y., 109, 685  
 Kanno, T. *see* Habara, Y., 110, 1271  
 Kanno, T. *see* Ikei, N., 110, 603  
 Kappelle, A.C., Bravenboer, B., van Buren, T., Traber, J., Erkelens, D.W. and Gispen, W.H. Amelioration by the Ca<sup>2+</sup> antagonist, nimodipine of an existing neuropathy in the streptozotocin-induced, diabetic rat, 108, 780  
 Karaki, H., Sudjarwo, S.A., Hori, M., Takai, M., Urade, Y. and Okada, T. Induction of endothelium-dependent relaxation in the rat aorta by IRL 1620, a novel and selective agonist at the endothelin ET<sub>B</sub> receptor, 109, 486  
 Karaki, H. *see* Hori, M., 110, 1527  
 Karaki, H. *see* Kitajima, S., 110, 263  
 Karaki, H. *see* Mitsui, M., 109, 229  
 Kargacin, M.E. *see* Li, X.-F., 109, 1272  
 Karlsson, J., Kuo, S.-M., Ziemniak, J. and Artursson, P. Transport of celiprolol across human intestinal epithelial (Caco-2) cells: mediation of secretion by multiple transporters including P-glycoprotein, 110, 1009  
 Karlsson, J.-A. *see* Qian, Y., 109, 774  
 Karlsson, J.-A. *see* Tomkinson, A., 108, 57  
 Karlsson, J.O.G. *see* Svensson, S.P.S., 110, 54  
 Karmazyn, M. Na<sup>+</sup>/H<sup>+</sup> exchange inhibitors reverse lactate-induced depression in postischaemic ventricular recovery, 108, 50  
 Kasai, H. *see* Miwa, A., 109, 632  
 Katayama, N., Huang, S.-M., Tomita, T. and Brading, A.F. Effects of cromakalim on the electrical slow wave in the circular muscle of guinea-pig gastric antrum, 109, 1097  
 Kato, H. *see* Kurihara, J., 109, 1263  
 Kato, T. *see* Shinkai, M., 108, 759  
 Katori, M. *see* Hashimoto, M., 108, 604  
 Kaube, H., Hoskin, K.L. and Goadsby, P.J. Inhibition by sumatriptan of central trigeminal neurones only after blood-brain barrier disruption, 109, 788  
 Kaumann, A.J. Blockade of human atrial 5-HT<sub>4</sub> receptors by GR 113808, 110, 1172  
 Kaumann, A.J. *see* Ferro, A., 109, 1053  
 Kaumann, A.J. *see* Medhurst, A.D., 110, 1023  
 Kawa, K. *see* Akaike, N., 109, 1020  
 Kawabata, A., Umeda, N. and Takagi, H. L-Arginine exerts a dual role in nociceptive processing in the brain: involvement of the kyotorphin-Met-enkephalin pathway and NO-cyclic GMP pathway, 109, 73  
 Kawashima, H. *see* Miyake, A., 110, 447  
 Kawikova, I., Arakawa, H., Löfdahl, C.-G., Skoogh, B.-E. and Lötvall, J. Bradykinin-induced airflow obstruction and airway plasma exudation: effects of drugs that inhibit acetylcholine, thromboxane A<sub>2</sub> or leukotrienes, 110, 657  
 Kawikova, I. *see* Arakawa, H., 110, 127  
 Keef, K.D. *see* Shuttleworth, C.W., 109, 739  
 Keiser, H.R. *see* Abassi, Z.A., 109, 1024  
 Kelder, D. and Ross, S.B. Counteraction of the rapid tolerance to 8-OH-DPAT-induced corticosterone secretion in rats by activation of the GABA<sub>A</sub> receptor-chloride channel complex, 109, 207  
 Kelly, D. *see* Perkins, M.N., 110, 1441  
 Kelso, E.J., McDermott, B.J. and Silke, B. Cardiotonic actions of selective phosphodiesterase inhibitors in rat isolated ventricular cardiomyocytes, 110, 1387  
 Kemp, B.K. *see* Cocks, T.M., 110, 360  
 Kemp, J.A. *see* Caesar, M., 109, 918  
 Kemp, J.A. *see* Horne, A.L., 108, 711  
 Kemp, P.A. *see* Gardiner, S.M., 108, 769  
 Kemp, P.A. *see* Gardiner, S.M., 109, 222  
 Kemp, P.A. *see* Gardiner, S.M., 110, 159  
 Kemp, P.A. *see* Gardiner, S.M., 110, 1457  
 Kemp, P.A. *see* Gardiner, S.M., 110, 1532  
 Kemp, P.A. *see* Widdop, R.E., 108, 684  
 Kendall, D.A. *see* Hernández, F., 110, 1085  
 Kendall, D.A. *see* Hussain, J.F., 109, 831  
 Kendall, S., Towart, R. and Michel, C.C. Effects of hydroxyethyl-rutinosides on the permeability of microvessels in the frog mesentery, 110, 199  
 Kennedy, I. *see* Gurden, M.F., 109, 693  
 Kennedy, I. *see* Trezise, D.J., 110, 1055  
 Kenny, B.A., Fraser, S. and Spedding, M. Identification of a novel calcium antagonist binding site in rat brain by SR 33557, 108, 93  
 Kenny, B.A., MacKinnon, A.C., Spedding, M. and Brown, C.M. Changes in [<sup>3</sup>H]-PK 11195 and [<sup>3</sup>H]-8-OH-DPAT binding following forebrain ischaemia in the gerbil, 109, 437  
 Keppens, S., Vandekerckhove, A. and de Wulf, H. Characterization of the effects of adenosine 5'-[ $\beta$ -thio]-diphosphate in rat liver, 108, 663  
 Kern, H.F. *see* Waschulewski, I.H., 108, 892  
 Khoyi, M. *see* Zhang, L., 109, 905  
 Khoyi, M.A., Dalziel, H.H., Zhang, L., Bjur, R.A., Gerthoffer, W.T., Buxton, I.L.O. and Westfall, D.P. [Ca<sup>2+</sup>]<sub>i</sub>-sensitive, IP<sub>3</sub>-independent Ca<sup>2+</sup> influx in smooth muscle of rat vas deferens revealed by procaine, 110, 1353  
 Khurana, G. and Bennett, M.R. Nitric oxide and arachidonic acid modulation of calcium currents in postganglionic neurones of avian cultured ciliary ganglia, 109, 480  
 Kigoshi, S. *see* Oshita, M., 108, 1071

- Kilpatrick, A.T. *see* Brown, C.M., 108, 516  
 Kilpatrick, A.T. *see* Redfern, W.S., 108, 526  
 Kilpatrick, G.J. *see* Grossman, C.J., 109, 618  
 Kim, S. *see* Yamanaka, S., 110, 1501  
 Kimura, I., Tsuneki, H., Dezaki, K. and Kimura, M. Enhancement by calcitonin gene-related peptide of nicotinic receptor-operated noncontractile  $\text{Ca}^{2+}$  mobilization at the mouse neuromuscular junction, 110, 639  
 Kimura, M. *see* Kimura, I., 110, 639  
 Kimura, M. *see* Maeda, K., 108, 1077  
 Kinoshita, H. *see* Tokuhara, T., 110, 297  
 Kirk, J.E. and Wilkins, M.R. Effect of endopeptidase-24.11 inhibition and of atrial natriuretic peptide clearance receptor ligand on the response to rat brain natriuretic peptide in the conscious rat, 110, 350  
 Kirkpatrick, K.A. and Richardson, P.J. Adenosine receptor-mediated modulation of acetylcholine release from rat striatal synaptosomes, 110, 949  
 Kitajima, S., Ozaki, H. and Karaki, H. The effects of ATP and  $\alpha, \beta$ -methylene-ATP on cytosolic  $\text{Ca}^{2+}$  level and force in rat isolated aorta, 110, 263  
 Kitamura, K., Lian, Q., Carl, A. and Kuriyama, H. S-nitrosocysteine, but not sodium nitroprusside, produces apamin-sensitive hyperpolarization in rat gastric fundus, 109, 415  
 Kitazawa, T., Ishii, A. and Taniyama, K. The Leu<sup>13</sup>-motilin (KW-5139)-evoked release of acetylcholine from enteric neurones in the rabbit duodenum, 109, 94  
 Kitchen, I. *see* Hourani, S.M.O., 108, 754  
 Kitchen, I. *see* Muhammad, B.Y., 109, 651  
 Kiyosue, T. *see* Sato, T., 108, 549  
 Klär, B. *see* Pavenstädt, H., 109, 953  
 Kleha, J.F., Devesly, P. and Johns, A. EDRF release from canine coronary artery by lectins, 110, 1473  
 Klein-Soyer, C. *see* Archipoff, G., 109, 18  
 Knight, R.J., Bowmer, C.J. and Yates, M.S. The diuretic action of 8-cyclopentyl-1,3-dipropylxanthine, a selective A<sub>1</sub> adenosine receptor antagonist, 109, 271  
 Knudsen, T., Ferjan, I. and Johansen, T. Activation of the Na<sup>+</sup>/K<sup>+</sup>-pump in rat peritoneal mast cells following histamine release: a possible role in cell recovery, 108, 120  
 Ko, F.-N., Yu, S.-M., Su, M.-J., Wu, Y.-C. and Teng, C.-M. Pharmacological activity of (-)-discretamine, a novel vascular  $\alpha$ -adrenoceptor and 5-hydroxytryptamine receptor antagonist, isolated from *Fissistigma glaucescens*, 110, 882  
 Kobari, M., Fukuuchi, Y., Tomita, M., Tanahashi, N., Konno, S. and Takeda, H. Effects of sumatriptan on the cerebral intraparenchymal microcirculation in the cat, 110, 1445  
 Kobayashi, F. *see* Okumura, H., 110, 1395  
 Kobayashi, M. *see* Watanabe, A., 109, 29  
 Kodama, K. *see* Akata, T., 109, 1247  
 Kohlhaas, K.L. *see* Mitchell, J.A., 109, 265  
 Kolpak, D.C. *see* Hieble, J.P., 110, 1635  
 Komori, S. *see* Matsuoka, T., 110, 87  
 Komori, S. *see* Nagasaki, M., 110, 399  
 Kondoh, W. *see* Moritoki, H., 108, 1125  
 Konno, S. *see* Kobari, M., 110, 1445  
 Kooyman, A.R., van Hooff, J.A. and Vijverberg, H.P.M. 5-Hydroxyindole slows desensitization of the 5-HT<sub>1</sub> receptor-mediated ion current in N1E-115 neuroblastoma cells, 108, 287  
 Kopin, I.J. *see* Yadid, G., 110, 50  
 Koshihara, Y. *see* Inoue, H., 110, 1614  
 Kouda, A. *see* Miyake, A., 110, 447  
 Kratzel, M. *see* Freissmuth, M., 110, 1429  
 Kreutner, W. *see* Bolser, D.C., 110, 491  
 Krief, S. *see* Lönnqvist, F., 110, 929  
 Krier, J. *see* Venkova, K., 110, 1260  
 Kropfgans, M. *see* Waelbroeck, M., 109, 360  
 Krsmanovic, L.Z. *see* Al-Damluji, S., 109, 299  
 Kubo, T. *see* Tsunoda, H., 110, 1437  
 Kubota, E. *see* Miyake, A., 110, 447  
 Kunkel, G. *see* Baumgarten, C.R., 108, 293  
 Kuo, S.-M. *see* Karlsson, J., 110, 1009  
 Kuo, S.C. *see* Su, M.J., 110, 310  
 Kurata, R., Takayanagi, I. and Hisayama, T. Eicosanoid-induced  $\text{Ca}^{2+}$  release and sustained contraction in  $\text{Ca}^{2+}$ -free media are mediated by different signal transduction pathways in rat aorta, 110, 875  
 Kurihara, J., Ochiai, N. and Kato, H. Protection by nicorandil against the dysfunction of the central vagal baroreflex system following transient global cerebral ischaemia in dogs, 109, 1263  
 Kurihara, T., Suzuki, H., Yanagisawa, M. and Yoshioka, K. Muscarinic excitatory and inhibitory mechanisms involved in afferent fibre-evoked depolarization of motoneurons in the neonatal rat spinal cord, 110, 61  
 Kuriyama, H. *see* Kitamura, K., 109, 415  
 Kurokawa, M. *see* Hishinuma, S., 109, 330  
 Kuroume, T. *see* Tokuyama, K., 108, 23  
 Kurz, K., von Kügelgen, I. and Starke, K. Prejunctional modulation of noradrenaline release in mouse and rat vas deferens: contribution of P<sub>1</sub>- and P<sub>2</sub>-purinoceptors, 110, 1465  
 Kusama, T., Spivak, C.E., Whiting, P., Dawson, V.L., Schaeffer, J.C. and Uhl, G.R. Pharmacology of GABA p1 and GABA  $\alpha/\beta$  receptors expressed in *Xenopus* oocytes and COS cells, 109, 200  
 Kyles, A.E., Waterman, A.E. and Livingston, A. The spinal antinociceptive activity of the  $\alpha_2$ -adrenoceptor agonist, xylazine in sheep, 108, 907

## L

- Labat, C. *see* Norel, X., 108, 914  
 Laduron, P.M. *see* Moussaoui, S.M., 109, 259  
 Laird, J.M.A., Hargreaves, R.J. and Hill, R.G. Effect of RP 67580, a non-peptide neurokinin<sub>1</sub> receptor antagonist, on facilitation of a nociceptive spinal flexion reflex in the rat, 109, 713  
 Lam, F.Y. and Ferrell, W.R. Effects of interactions of naturally-occurring neuropeptides on blood flow in the rat knee joint, 108, 694  
 Lambert, J.J. *see* Peters, J.A., 110, 665  
 Lambrecht, G. *see* Waelbroeck, M., 109, 360  
 Lambrecht, G. *see* Ziganshin, A.U., 110, 1491  
 Lamont, M. *see* MacDonald, A., 110, 1551  
 Lamontagne, D. *see* Nakhostine, N., 110, 71  
 Lane, J.W., McBride, D.W. Jr. and Hamill, O.P. Ionic effects on amiloride block of the mechanosensitive channel in *Xenopus* oocytes, 108, 116  
 Lang, D., Smith, J.A. and Lewis M.J. Induction of a calcium-independent NO synthase by hypercholesterolaemia in the rabbit, 108, 290  
 Lang, H.J. *see* Scholz, W., 109, 562  
 Langer, S.Z. *see* Lefèvre-Borg, F., 109, 1282  
 Larsson, B. *see* Persson, K., 110, 521  
 Laszlo, F. *see* Boughton-Smith, N.K., 110, 1189  
 Lattimer, N., Gupta, P. and Rhodes, K.F. Characterization of the 5-hydroxytryptamine receptor mediating the positive inotropic response in guinea-pig isolated left atria, 109, 1192  
 Laurent, F., Michel, A., Bonnet, P.A., Chapat, J.P. and Boucard, M. Evaluation of the relaxant effects of SCA40, a novel charybdotoxin-sensitive potassium channel opener, in guinea-pig isolated trachealis, 108, 622  
 Laurent, F. *see* Michel, A., 110, 1031  
 Law, A.C.K. *see* Bower, E.A., 108, 933  
 Law, M.P. Demonstration of the suitability of CGP 12177 for *in vivo* studies of  $\beta$ -adrenoceptors, 109, 1101  
 Lawrence, A.J. *see* Chettibi, S., 108, 248  
 Lazareno, S. and Birdsall, N.J.M. Estimation of competitive antagonist affinity from functional inhibition curves using the Gaddum, Schild and Cheng-Prusoff equations, 109, 1110  
 Lazareno, S. and Birdsall, N.J.M. Pharmacological characterization of acetylcholine-stimulated [<sup>35</sup>S]-GTP $\gamma$ S binding mediated by human muscarinic m1-m4 receptors: antagonist studies, 109, 1120  
 Le Corre, P. *see* Berlan, M., 108, 927  
 Le Verge, R. *see* Berlan, M., 108, 927  
 Leboeuf, J., Basiez, M. and Massingham, R. Electrophysiological effects of Org 7797 in the closed-chest anaesthetized dog, 110, 23  
 Lecci, A. *see* Tramontana, M., 108, 431  
 Lechère, J. *see* Lefèvre-Borg, F., 109, 1282  
 Ledda, F. *see* Mantelli, L., 109, 1268  
 Leduc, D. *see* Zuany-Amorim, C., 110, 917  
 Lee, B.S.S. *see* Hourani, S.M.O., 108, 754  
 Lee, C.-M. *see* Dong, H., 109, 113  
 Lee, C.-R. *see* Huang, H.-C., 110, 1508  
 Lee, L.-Y. *see* Lou, Y.-P., 109, 765  
 Lee, V.J. *see* Brownlie, R.P., 110, 1600

- Lee, Y.-T. *see* Huang, H.-C., 110, 1508
- Lefèvre-Borg, F., O'Connor, S.E., Schoemaker, H., Hicks, P.E., Lechaire, J., Gautier, E., Pierre, F., Pimoule, C., Manoury, P. and Langer, S.Z. Alfuzosin, a selective  $\alpha_1$ -adrenoceptor antagonist in the lower urinary tract, 109, 1282
- Leff, P., Dougall, I.G. and Harper, D. Estimation of partial agonist affinity by interaction with a full agonist: a direct operational model-fitting approach, 110, 239
- Leff, P., Wood, B.E., O'Connor, S.E. and McKechnie, K. Quantitative analysis of the agonist and antagonist actions of some ATP analogues at P<sub>2X</sub>-purinoceptors in the rabbit ear artery, 108, 490
- Lefort, J. *see* Tavares-Murta, B.M., 108, 538
- Lei, S., Richter, R., Bienert, M. and Mulvany, M.J. Relaxing actions of corticotropin-releasing factor on rat resistance arteries, 108, 941
- Lei, Y.-H., Barnes, P.J. and Rogers, D.F. Regulation of NANC neural bronchoconstriction *in vivo* in the guinea-pig: involvement of nitric oxide, vasoactive intestinal peptide and soluble guanylyl cyclase, 108, 228
- Lei, Y.-H. *see* Hirayama, Y., 108, 844
- Leipziger, J. *see* Pavenstädt, H., 109, 953
- Lembeck, F. *see* Griesbacher, T., 108, 405
- Lemli, J. *see* Nijs, G., 108, 269
- Leng, G. *see* Luckman, S.M., 110, 378
- Leonardi, P. *see* Lombardi, G., 110, 1407
- Leung, E. *see* Eglen, R.M., 108, 376
- Leung, E. *see* Eglen, R.M., 110, 119
- Levesque, L., Drapeau, G., Grose, J.H., Rioux, F. and Marceau, F. Vascular mode of action of kinin B<sub>1</sub> receptors and development of a cellular model for the investigation of these receptors, 109, 1254
- Levy, S. *see* Finberg, J.P.M., 108, 1038
- Lewis, M.J. *see* Lang, D., 108, 290
- Lewis, M.J. *see* Smith, J.A., 108, 1107
- Li, C.G. *see* Rajanayagam, M.A.S., 108, 3
- Li, C.G. *see* Rand, M.J., 110, 1479
- Li, X. *see* Mushlin, P.S., 110, 975
- Li, X.-F., Kargacin, M.E. and Triggle, C.R. The effects of  $\alpha$ -adrenoceptor agonists on intracellular Ca<sup>2+</sup> levels in freshly dispersed single smooth muscle cells from rat tail artery, 109, 1272
- Lian, Q. *see* Kitamura, K., 109, 415
- Lidbury, P. *see* Stevens, E.J., 109, 980
- Lidbury, P.S., Cirillo, R. and Vane, J.R. Dissociation of the anti-ischaemic effects of cloricromene from its anti-platelet activity, 110, 275
- Lidbury, P.S. *see* McMurdo, L., 109, 530
- Lieberman, D.M. *see* Yadid, G., 110, 50
- Liew, F.Y. *see* Assreuy, J., 108, 833
- Lin, J.-L. *see* Fu, W.-M., 110, 707
- Lin, Y.-S.R. *see* Quilley, C.P., 108, 106
- Lin-Shiau, S.-Y. *see* Fu, W.-M., 108, 236
- Lin-Shiau, S.Y. *see* Hsu, K.S., 110, 163
- Lindén, A., Ullman, A., Löfdahl, C.-G. and Skoogh, B.-E. Non-adrenergic, non-cholinergic neural activation in guinea-pig bronchi: powerful and frequency-dependent stabilizing effect on tone, 109, 845
- Lindsay, D.B. *see* Silience, M.N., 109, 1157
- Linz, W. *see* Baumgarten, C.R., 108, 293
- Linz, W. *see* Scholz, W., 109, 562
- Lippe, I.Th. *see* Holzer, P., 110, 404
- Livingston, A. *see* Kyles, A.E., 108, 907
- Llenas, J. *see* Cortijo, J., 108, 562
- Löfdahl, C.-G. *see* Arakawa, H., 110, 127
- Löfdahl, C.-G. *see* Kawikova, I., 110, 657
- Löfdahl, C.-G. *see* Lindén, A., 109, 845
- Loi, R.K. *see* Warren, J.B., 109, 802
- Lombardi, G., Alesiani, M., Leonardi, P., Cherici, G., Pellicciari, R. and Moroni, F. Pharmacological characterization of the metabotropic glutamate receptor inhibiting D-[<sup>3</sup>H]-aspartate output in rat striatum, 110, 1407
- Longmore, J. *see* Rupniak, N.M.J., 110, 1607
- Lönnqvist, F., Krief, S., Strosberg, A.D., Nyberg, B., Emorine, L.J. and Arner, P. Evidence for a functional  $\beta_3$ -adrenoceptor in man, 110, 929
- Lopes, P., Regoli, D. and Couture, R. Cardiovascular effects of intrathecally administered bradykinin in the rat: characterization of receptors with antagonists, 110, 1369
- López, M.G. *see* Garcez-Do-Carmo, L., 110, 1149
- Lopez-Belmonte, J., Whittle, B.J.R. and Moncada, S. The actions of nitric oxide donors in the prevention or induction of injury to the rat gastric mucosa, 108, 73
- Lopez-Belmonte, J. and Whittle, B.J.R. The paradoxical vascular interactions between endothelin-1 and calcitonin gene-related peptide in the rat gastric mucosal microcirculation, 110, 496
- Lorente, P. *see* Delgado, C., 108, 721
- Lorenzetti, B.B. *see* Ferreira, S.H., 110, 1227
- Lötvall, J. *see* Arakawa, H., 110, 127
- Lötvall, J. *see* Kawikova, I., 110, 657
- Lou, Y.-P., Lee, L.-Y., Satoh, H. and Lundberg, J.M. Postjunctional inhibitory effect of the NK<sub>2</sub> receptor antagonist, SR 48968, on sensory NANC bronchoconstriction in the guinea-pig, 109, 765
- Loubatières-Mariani, M.M. *see* Hillaire-Buys, D., 109, 183
- Louttit, J.B. and Coleman, R.A. The action of Hoe 140 on the bradykinin-induced splenic pressor reflex of the anaesthetized cat, 110, 1317
- Loweth, A.C. *see* Brown, C.A., 108, 312
- Loza, M.I. *see* Orallo, F., 110, 943
- Luckman, S.M., Hamamura, M., Antonijevic, I., Dye, S. and Leng, G. Involvement of cholecystokinin receptor types in pathways controlling oxytocin secretion, 110, 378
- Ludbrook, J. *see* Evans, R.G., 109, 37
- Lugnier, C. *see* Ivorra, M.D., 109, 502
- Lumbers, E.R., Burrell, J.H., Menzies, R.I. and Stevens, A.D. The effects of a converting enzyme inhibitor (captopril) and angiotensin II on fetal renal function, 110, 821
- Lumley, P. *see* Armstrong, R.A., 110, 539
- Lumley, P. *see* Armstrong, R.A., 110, 548
- Lundberg, J.M. *see* Alving, K., 110, 739
- Lundberg, J.M. *see* Lou, Y.-P., 109, 765
- Luscombe, G.P., Martin, K.F., Hutchins, L.J., Gosden, J. and Heal, D.J. Mediation of the antidepressant-like effect of 8-OH-DPAT in mice by postsynaptic 5-HT<sub>1A</sub> receptors, 108, 669
- Luttmann, M.A. *see* Hay, D.W.P., 110, 1175
- Lux, H.D. *see* Parsons, C.G., 109, 213

## M

- Maayani, S. *see* Wiener, H.L., 109, 394
- MacAllister, R.J. *see* Griffiths, M.J.D., 110, 963
- Macarthur, H., Hecker, M., Busse, R. and Vane, J.R. Selective inhibition of agonist-induced but not shear stress-dependent release of endothelial autacoids by thapsigargin, 108, 100
- McAuliffe, S.J.G., Moors, J.A., Snow, H.M., Wayne, M. and Jessup, R. Redirection of arachidonic acid metabolism by ICI D1542: effects on thrombus formation in the coronary artery of the anaesthetized dog, 108, 901
- McAuliffe, S.J.G., Snow, H.M., Cox, B., Smith, C.C.T. and Noble, M.I.M. Interaction between the effects of 5-hydroxytryptamine and adrenaline on the growth of platelet thrombi in the coronary artery of the anaesthetized dog, 109, 405
- McBride, D.W. Jr. *see* Lane, J.W., 108, 116
- McCarthy, A. *see* Rutherford, R.A.D., 109, 544
- McConnell, S.E. *see* Slater, P., 108, 1143
- McCormack, J.G. *see* Clarke, B., 109, 748
- MacCoss, M. *see* Tousignant, C., 108, 383
- McCrea, K.E. and Hill, S.J. Salmeterol, a long-acting  $\beta_2$ -adrenoceptor agonist mediating cyclic AMP accumulation in a neuronal cell line, 110, 619
- McCulloch, K.M. *see* MacLean, M.R., 108, 150
- McCulloch, K.M. *see* MacLean, M.R., 108, 155
- MacDermot, J. *see* Parsaee, H., 110, 411
- McDermott, B.J. *see* Kelso, E.J., 110, 1387
- MacDonald, A. and Lamont, M. Effects of selective antagonism of  $\beta$ -adrenoceptor sub-types on responses to isoprenaline in rat distal colon *in vitro*, 110, 1551
- MacDonald, J.F. *see* Fletcher, E.J., 109, 1196
- McDougall, J.G. *see* Yates, N.A., 108, 627
- McEwan, J.R. *see* Parsaee, H., 110, 411
- MacFarlane, C.B. *see* Brown, C.M., 108, 516
- McGarry, S.J. and Williams, A.J. Digoxin activates sarcoplasmic reticulum Ca<sup>2+</sup>-release channels: a possible role in cardiac inotropy, 108, 1043
- McGiff, J.C. *see* Quilley, C.P., 108, 106
- McGivern, J., Scholfield, C.N. and Dolly, J.O. Action of  $\alpha$ -dendrotoxin

- on  $K^+$  currents in nerve terminal regions of axons in rat olfactory cortex, 109, 535
- McGrath, J.C. *see* MacLean, M.R., 108, 150
- McGrath, J.C. *see* MacLean, M.R., 108, 155
- MacGregor, D.G., Miller, W.J. and Stone, T.W. Mediation of the neuroprotective action of *R*-phenylisopropyladenosine through a centrally located adenosine  $A_1$  receptor, 110, 470
- MacGregor, D.G. and Stone, T.W. Inhibition by the adenosine analogue, (*R*)-*N*<sup>6</sup>-phenylisopropyl-adenosine, of kainic acid neurotoxicity in rat hippocampus after systemic administration, 109, 316
- McGrory, B.G. *see* Douglas, A.J., 109, 251
- Machado, A. *see* Santiago, M., 109, 814
- McKechnie, K. *see* Leff, P., 108, 490
- McKee, K.T., Millar, L., Rodger, I.W. and Metters, K.M. Identification of both  $NK_1$  and  $NK_2$  receptors in guinea-pig airways, 110, 693
- McKenna, W.J. *see* Fei, L., 109, 178
- MacKenzie, I., Saville, V.L. and Waterfall, J.F. Differential Class III and glibenclamide effects on action potential duration in guinea-pig papillary muscle during normoxia and hypoxia/ischaemia, 110, 531
- MacKinnon, A.C., Spedding, M. and Brown, C.M. Sodium modulation of  $^3H$ -agonist and  $^3H$ -antagonist binding to  $\alpha_2$ -adrenoceptor subtypes, 109, 371
- MacKinnon, A.C. *see* Brown, C.M., 108, 516
- MacKinnon, A.C. *see* Kenny, B.A., 109, 437
- MacKinnon, A.C. *see* Redfern, W.S., 108, 526
- McKnight, A.T. *see* Boyle, S.J., 109, 913
- McKnight, A.T. *see* Guard, S., 110, 385
- MacLagan, J. *see* Watson, N., 109, 751
- MacLean, M.R., McCulloch, K.M., MacMillan, J.B. and McGrath, J.C. Influences of the endothelium and hypoxia on neurogenic transmission in the isolated pulmonary artery of the rabbit, 108, 150
- MacLean, M.R., McCulloch, K.M. and McGrath, J.C. Influences of the endothelium and hypoxia on  $\alpha_1$ - and  $\alpha_2$ -adrenoceptor-mediated responses in the rabbit isolated pulmonary artery, 108, 155
- McLeod, R.L., Gertner, S.B. and Hey, J.A. Production by *R*- $\alpha$ -methylhistamine of a histamine  $H_3$  receptor-mediated decrease in basal vascular resistance in guinea-pigs, 110, 553
- Maclouf, J. *see* Sala, A., 110, 1206
- MacMillan, J.B. *see* MacLean, M.R., 108, 150
- MacMillan, S.J.A. *see* Douglas, A.J., 109, 251
- McMillian, M.K., Soltoff, S.P., Cantley, L.C., Rudel, R. and Talamo, B.R. Two distinct cytosolic calcium responses to extracellular ATP in rat parotid acinar cells, 108, 453
- McMurdo, L., Corder, R., Thiernemann, C. and Vane, J.R. Incomplete inhibition of the pressor effects of endothelin-1 and related peptides in the anaesthetized rat with BQ-123 provides evidence for more than one vasoconstrictor receptor, 108, 557
- McMurdo, L., Lidbury, P.S., Thiernemann, C. and Vane, J.R. Mediation of endothelin-1-induced inhibition of platelet aggregation via the  $ET_B$  receptor, 109, 530
- McNicholl, I.K. *see* Hu, W., 110, 645
- McQuade, R. *see* Sharp, T., 109, 699
- MacVinish, L.J., Pickles, R.J. and Cuthbert, A.W. Cyclic AMP and  $Ca^{2+}$  interactions affecting epithelial chloride secretion in human cultured colonic epithelia, 108, 462
- MacVinish, L.J., Reancharoen, T. and Cuthbert, A.W. Kinin-induced chloride permeability changes in colony 29 epithelia estimated from  $^{125}I$  efflux and MEQ fluorescence, 108, 469
- Madeddu, P., Anania, V., Parpaglia, P.P., Demontis, M.P., Varoni, M.V., Fattaccio, M.C. and Glorioso, N. Chronic kinin receptor blockade induces hypertension in deoxycorticosterone-treated rats, 108, 651
- Maeda, K., Kimura, M. and Hayashi, S. Cellular mechanism of U78517F in the protection of porcine coronary artery endothelial cells from oxygen radical-induced damage, 108, 1077
- Maggi, C.A., Bevan, S., Walpole, C.S.J., Rang, H.P. and Giuliani, S. A comparison of capsazepine and ruthenium red as capsaicin antagonists in the rat isolated urinary bladder and vas deferens, 108, 801
- Maggi, C.A. *see* Eglezos, A., 109, 736
- Maggi, C.A. *see* Santicoli, P., 110, 609
- Maggi, C.A. *see* Tramontana, M., 108, 431
- Maggi, C.A. *see* Zagorodnyuk, V., 110, 795
- Maghni, K. *see* Nogueira de Francisci, J., 110, 1381
- Magnussen, H. *see* Nials, A.T., 110, 1112
- Mahle, C.D. *see* Nowak, H.P., 109, 1206
- Mainwaring, S. *see* Growcott, J.W., 109, 1212
- Majewski, H. *see* Costa, M., 110, 910
- Majewski, H. *see* Rechtman, M., 110, 289
- Malone, H.M. *see* Peters, J.A., 110, 665
- Man, R.Y.K. *see* Hu, W., 110, 645
- Manara, L. *see* Martin, C.A.E., 110, 1311
- Mann, G.E. *see* Baydoun, A.R., 109, 987
- Mann, G.E. *see* Baydoun, A.R., 110, 1401
- Manoury, P. *see* Lefèvre-Borg, F., 109, 1282
- Mantelli, B. *see* Grignaschi, G., 109, 491
- Mantelli, L., Amerini, S., Filippi, S. and Ledda, F. Blockade of adenosine receptors unmasks a stimulatory effect of ATP on cardiac contractility, 109, 1268
- Mantelli, L. *see* Pirisino, R., 109, 1038
- Mantovani, P. *see* Sgaragli, G.P., 110, 369
- Manzini, S. *see* Parlani, M., 110, 989
- Maragoudakis, M.E. *see* Pipili-Synetos, E., 108, 855
- Marangoni, R.A., Antunes, E., Brain, S.D. and de Nucci, G. Activation by *Phoneutria nigriventer* (armed spider) venom of tissue kallikrein-kininogen-kinin system in rabbit skin *in vivo*, 109, 539
- Marceau, F. *see* Levesque, L., 109, 1254
- March, J.E. *see* Gardiner, S.M., 110, 159
- Marcoux, F.W. *see* Birrell, G.J., 109, 379
- Marczin, N., Papapetropoulos, A., Jilling, T. and Catravas, J.D. Prevention of nitric oxide synthase induction in vascular smooth muscle cells by microtubule depolymerizing agents, 109, 603
- Marien, M.R. *see* Tacconi, S., 108, 577
- Marsh, K.A. and Hill, S.J. Characteristics of the bradykinin-induced changes in intracellular calcium ion concentration of single bovine tracheal smooth muscle cells, 110, 29
- Marshall, D.L. *see* Hollecker, M., 110, 790
- Marshall, F.H., Clark, S.A., Michel, A.D. and Barnes, J.C. Binding of angiotensin antagonists to rat liver and brain membranes measured *ex vivo*, 109, 760
- Marshall, K. *see* Senior, J., 108, 501
- Marthan, R. *see* Ben-Jebria, A., 109, 131
- Martin, A.B. *see* Redfern, W.S., 108, 526
- Martin, C.A.E., Naline, E., Manara, L. and Advenier, C. Effects of two  $\beta_2$ -adrenoceptor agonists, SR 58611A and BRL 37344, and of salbutamol on cholinergic and NANC neural contraction in guinea-pig main bronchi *in vitro*, 110, 1311
- Martin, D.P. *see* Gurden, M.F., 109, 693
- Martin, G.R. *see* Craig, D.A., 109, 609
- Martin, K.F. *see* Luscombe, G.P., 108, 669
- Martin, R.J. *see* Robertson, S.J., 108, 170
- Martin, W., Gillespie, J.S. and Gibson, I.F. Actions and interactions of  $N^6$ -substituted analogues of L-arginine on NANC neurotransmission in the bovine retractor penis and rat anococcygeus muscles, 108, 242
- Martin, W. *see* Berman, R.S., 108, 920
- Martin, W. *see* Berman, R.S., 110, 1282
- Martin, W. *see* Frew, J.D., 110, 1003
- Martorana, P.A. *see* Scholz, W., 109, 562
- Maruyama, Y. *see* Sekizawa, K., 110, 816
- Mascolo, N., Izzo, A.A., Barbato, F. and Capasso, F. Inhibitors of nitric oxide synthetase prevent castor-oil-induced diarrhoea in the rat, 108, 861
- Mason, R. *see* David, C., 110, 1522
- Massingham, R. *see* Leboeuf, J., 110, 23
- Masuda, K.-i. *see* Renesto, P., 108, 1100
- Masuda, Y. *see* Abe, E., 108, 387
- Masuzawa-Ito, K. *see* Asano, M., 108, 214
- Matassa, V.G. *see* Beer, M.S., 110, 1196
- Mathie, A. *see* Wooltorton, J.R.A., 110, 1126
- Matsubara, T. *see* Huang, Z., 108, 331
- Matsubara, T. *see* Nishimura, H., 109, 443
- Matsuda, T. *see* Asano, M., 108, 214
- Matsuki, N. *see* Nakazawa, K., 109, 137
- Matsumoto, Y. *see* Hishinuma, S., 109, 330
- Matsuno, H., Uematsu, T. and Nakashima, M. Thrombolytic effect of a plasminogen-plasminogen activator chimera in a photochemically induced thrombosis (PIT) model, 110, 1278
- Matsuoka, T., Komori, S. and Ohashi, H. Membrane current responses to externally-applied ATP in the longitudinal muscle of the chicken rectum, 110, 87

- Matsuura, A. *see* Okumura, H., 110, 1395
- Mattera, G.G., Eglezos, A., Renzetti, A.R. and Mizrahi, J. Comparison of the cardiovascular and neural activity of endothelin-1, -2, -3 and respective proendothelins: effects of phosphoramidon and thiorphan, 110, 331
- Matthews, E.K., Flaherty, C. and Smith, W.H.T. Photodynamic action of aluminium phthalocyanine tetrasulphonate (AlPcS<sub>4</sub>) on smooth muscle: effects of thiols and a cyclic GMP analogue, 110, 1248
- Matthews, J.S. and Jones, R.L. Potentiation of aggregation and inhibition of adenylate cyclase in human platelets by prostaglandin E analogues, 108, 363
- Mattiasson, A. *see* Igawa, Y., 109, 473
- Mattiasson, A. *see* Igawa, Y., 110, 257
- Matucci, R. *see* Pirisino, R., 109, 1038
- Medhurst, A.D. and Kaumann, A.J. Characterization of the 5-HT<sub>4</sub> receptor mediating tachycardia in piglet isolated right atrium, 110, 1023
- Menzies, R.I. *see* Lumbers, E.R., 110, 821
- Merkus, F.W.H.M. *see* Schipper, N.G.M., 110, 1335
- Merriweather, C. *see* Pfeilschifter, J., 110, 847
- Messent, M. *see* Griffiths, M.J.D., 110, 963
- Metsä-Ketelä, T. *see* Moilanen, E., 109, 852
- Metters, K.M. *see* McKee, K.T., 110, 693
- Meulemans, A. *see* Nijs, G., 108, 269
- Meulemans, A.L. *see* Tokuhara, T., 110, 297
- Miao, L. *see* Hurrell, D.G., 109, 667
- Miasiro, N., Nakaie, C.R. and Paiva, A.C.M. Endothelin (16–21): biphasic effect and no desensitization on the guinea-pig isolated ileum, 109, 68
- Michel, A., Laurent, F., Bompard, J., Hadj-Kaddour, K., Chapat, J.P., Boucard, M. and Bonnet, P.A. Cardiovascular effects of SCA40, a novel potassium channel opener, in rats, 110, 1031
- Michel, A. *see* Laurent, F., 108, 622
- Michel, A.D., Phul, R.K., Stewart, T.L. and Humphrey, P.P.A. Characterization of the binding of [<sup>3</sup>H]-L-N<sup>G</sup>-nitro-arginine in rat brain, 109, 287
- Michel, A.D. *see* Marshall, F.H., 109, 760
- Michel, C.C. *see* Kendall, S., 110, 199
- Michelena, P. *see* Garcez-Do-Carmo, L., 110, 1149
- Michoud, M.C. *see* Robichaud, A., 110, 804
- Mickley, E.J. *see* Warner, T.D., 110, 783
- Middlemiss, D.N. *see* Beer, M.S., 110, 1196
- Middleton, S.J., Cuthbert, A.W., Shorthouse, M. and Hunter, J.O. Nitric oxide affects mammalian distal colonic smooth muscle by tonic neural inhibition, 108, 974
- Mikhailidis, D.P. *see* Jeremy, J.Y., 108, 1131
- Milavec-Krizman, M. *see* Fozard, J.R., 109, 1059
- Millar, L. *see* McKee, K.T., 110, 693
- Miller, A.J. *see* Chiu, P., 109, 1149
- Miller, R.C. *see* Tschöpl, M., 110, 1098
- Miller, W.J. *see* MacGregor, D.G., 110, 470
- Milton, N.G.N., Self, C.H. and Hillhouse, E.W. Effects of pyrogenic immunomodulators on the release of corticotrophin-releasing factor-41 and prostaglandin E<sub>2</sub> from the intact rat hypothalamus *in vitro*, 109, 88
- Minayoshi, Y. *see* Suzuki, K., 109, 661
- Miralles, A. *see* Olmos, G., 108, 597
- Miralles, A. *see* Ribas, C., 110, 99
- Miras-Portugal, M.T. *see* Pintor, J., 108, 1094
- Mironneau, C. *see* Sayet, I., 110, 207
- Mironneau, J. *see* Sayet, I., 110, 207
- Mitchell, D. *see* Cartmell, S.M., 110, 1067
- Mitchell, D. *see* Hall, J.M., 109, 1008
- Mitchell, J.A., Kohlhaas, K.L., Sorrentino, R., Warner, T.D., Murad, F. and Vane, J.R. Induction by endotoxin of nitric oxide synthase in the rat mesentery: lack of effect on action of vasoconstrictors, 109, 265
- Mitchell, J.A. *see* Cristol, J.P., 109, 188
- Mitchell, J.A. *see* Szabó, C., 108, 786
- Mitsui, M. and Karaki, H. Contractile and relaxant effects of phorbol ester in the intestinal smooth muscle of guinea-pig taenia caeci, 109, 229
- Miura, K. *see* Yamanaka, S., 110, 1501
- Miwa, A., Kaneta, S., Motoki, K., Jinno, Y., Kasai, H., Okada, Y., Fukushima, H. and Ogawa, N. Vasorelaxant mechanism of KRN2391 and nicorandil in porcine coronary arteries of different sizes, 109, 632
- Miwa, A. *see* Harada, K., 109, 679
- Miyake, A., Yamamoto, H., Kubota, E., Hamaguchi, K., Kouda, A., Honda, K. and Kawashima, H. Suppression of inflammatory responses to 12-*O*-tetradecanoyl-phorbol-13-acetate and carrageenin by YM-26734, a selective inhibitor of extracellular group II phospholipase A<sub>2</sub>, 110, 447
- Miyamoto, S. *see* Hori, M., 110, 1527
- Miyano, H. *see* Moritoki, H., 108, 1125
- Miyauchi, T. *see* Tsunoda, H., 110, 1437
- Mizrahi, J. *see* Eglezos, A., 109, 736
- Mizrahi, J. *see* Mattera, G.G., 110, 331
- Mochizuki, H. *see* Tokuyama, K., 108, 23
- Moilanen, E., Vuorinen, P., Kankaanranta, H., Metsä-Ketelä, T. and Vapaatalo, H. Inhibition by nitric oxide-donors of human polymorphonuclear leucocyte functions, 109, 852
- Mok, M.S. *see* Chiu, T.H., 110, 903
- Molenaar, P. *see* Roberts, S.J., 109, 344
- Mollace, V. *see* Salvemini, D., 109, 430
- Momi, S. *see* Paul, W., 110, 1565
- Momiyama, T., Sasa, M. and Takaori, S. Enhancement of D<sub>2</sub> receptor agonist-induced inhibition by D<sub>1</sub> receptor agonist in the ventral tegmental area, 110, 713
- Momiyama, T., Todo, N. and Sasa, M. A mechanism underlying dopamine D<sub>1</sub> and D<sub>2</sub> receptor-mediated inhibition of dopaminergic neurones in the ventral tegmental area *in vitro*, 109, 933
- Moncada, S. *see* Assreuy, J., 108, 833
- Moncada, S. *see* Boughton-Smith, N.K., 110, 1189
- Moncada, S. *see* Gardiner, S.M., 110, 1457
- Moncada, S. *see* Ialenti, A., 110, 701
- Moncada, S. *see* Lopez-Belmonte, J., 108, 73
- Moncada, S. *see* Smith, J.A., 108, 1107
- Monge, L., García-Villalón, A.L., Montoya, J.J., García, J.L., Fernández, N., Gómez, B. and Diéguez, G. Role of the endothelium in the response to cholinergic stimulation of rabbit ear and femoral arteries during cooling, 109, 61
- Monge, L. *see* Fernández, N., 110, 428
- Montier, F. *see* Moussaoui, S.M., 109, 259
- Montoya, J.J. *see* Monge, L., 109, 61
- Montuschi, P. *see* Ciabattini, G., 109, 243
- Moore, N.G. *see* Sillence, M.N., 109, 1157
- Moore, P.K., Babbedge, R.C., Wallace, P., Gaffen, Z.A. and Hart, S.L. 7-Nitro indazole, an inhibitor of nitric oxide synthase, exhibits antinociceptive activity in the mouse without increasing blood pressure, 108, 296
- Moore, P.K., Wallace, P., Gaffen, Z., Hart, S.L. and Babbedge, R.C. Characterization of the novel nitric oxide synthase inhibitor 7-nitro indazole and related indazoles: antinociceptive and cardiovascular effects, 110, 219
- Moore, P.K. *see* Babbedge, R.C., 110, 225
- Moors, J.A. *see* McAuliffe, S.J.G., 108, 901
- Morcillo, E. *see* Cortijo, J., 108, 562
- Morgan, J.P. *see* Hurrell, D.G., 109, 667
- Morgan, J.P. *see* Qiu, Z., 109, 293
- Morgan, N.G. *see* Brown, C.A., 108, 312
- Morgan, N.G. *see* Brown, C.A., 110, 1017
- Morice, A.H. *see* Wanstall, J.C., 110, 1363
- Morikawa, A. *see* Tokuyama, K., 108, 23
- Moritoki, H., Miyano, H., Takeuchi, S., Yamaguchi, M., Hisayama, T. and Kondoh, W. Endothelin-3-induced relaxation of rat thoracic aorta: a role for nitric oxide formation, 108, 1125
- Moroni, F. *see* Lombardi, G., 110, 1407
- Morris, R. *see* Bleazard, L., 110, 1061
- Morrone, L.A., Romanelli, L., Amico, M.C. and Valeri, P. Withdrawal contractions of guinea-pig isolated ileum after acute activation of  $\kappa$ -opioid receptors, 109, 48
- Morton, I.K.M. *see* Hall, J.M., 109, 1008
- Moskowitz, M.A. *see* Huang, Z., 108, 331
- Mosley, K. *see* Hillhouse, E.W., 109, 289
- Motoki, K. *see* Miwa, A., 109, 632
- Motte, S., Piroton, S. and Boeynaems, J.M. Evidence that a form of ATP uncomplexed with divalent cations is the ligand of P<sub>2y</sub> and nucleotide/P<sub>2u</sub> receptors on aortic endothelial cells, 109, 967
- Moussaoui, S.M., Montier, F., Carruette, A., Blanchard, J.C., Laduron, P.M. and Garret, C. A non-peptide NK<sub>1</sub>-receptor antagonist, RP 67580, inhibits neurogenic inflammation postsynaptically, 109, 259

- Muhammad, B.Y. and Kitchen, I. Effect of delayed weaning on opioid receptor control of swim stress-induced antinociception in the developing rat, **109**, 651
- Mulvany, M.J. *see* Lei, S., **108**, 941
- Mulvany, M.J. *see* Simonsen, U., **109**, 998
- Munakata, M. *see* Yakushiji, T., **109**, 819
- Mundin, J.W. *see* White, D.G., **109**, 1128
- Murad, F. *see* Mitchell, J.A., **109**, 265
- Murai, S. *see* Abe, E., **108**, 387
- Muramatsu, I. *see* Oshita, M., **108**, 1071
- Murray, T.K. *see* Baldwin, H.A., **108**, 590
- Murray, T.K. *see* Colado, M.I., **108**, 583
- Mushlin, P.S., Cusack, B.J., Boucek Jr, R.J., Andrejuk, T., Li, X. and Olson, R.D. Time-related increases in cardiac concentrations of doxorubicinol could interact with doxorubicin to depress myocardial contractile function, **110**, 975
- Muto, S., Imai, M. and Asano, Y. Effect of nafamostat mesilate on Na<sup>+</sup> and K<sup>+</sup> transport properties in the rabbit cortical collecting duct, **109**, 673
- Mutschler, E. *see* Waelbroeck, M., **109**, 360
- Mutschler, E. *see* Ziganshin, A.U., **110**, 1491
- N**
- Nadeau, R. *see* Chahine, R., **108**, 318
- Nadeau, R. *see* Nakhostine, N., **110**, 71
- Nadel, J.A. *see* Geppetti, P., **108**, 646
- Nagasaki, M., Komori, S. and Ohashi, H. Effect of trimebutine on voltage-activated calcium current in rabbit ileal smooth muscle cells, **110**, 399
- Nagata, N. *see* Inoue, H., **110**, 1614
- Nagatomo, T. *see* Satoh, E., **108**, 484
- Nagayama, I. *see* Kakei, M., **109**, 1226
- Naik, R. *see* Bkaily, G., **110**, 519
- Najafipour, H. and Ferrell, W.R. Sympathetic innervation and  $\alpha$ -adrenoceptor profile of blood vessels in the posterior region of the rabbit knee joint, **108**, 79
- Nakaie, C.R. *see* Miasiro, N., **109**, 68
- Nakamura, S. *see* Sato, T., **108**, 549
- Nakao, K. *see* Beech, D.J., **110**, 573
- Nakao, K. *see* Beech, D.J., **110**, 583
- Nakashima, M. *see* Matsuno, H., **110**, 1278
- Nakaya, H., Tohse, N., Takeda, Y. and Kanno, M. Effects of MS-551, a new class III antiarrhythmic drug, on action potential and membrane currents in rabbit ventricular myocytes, **109**, 157
- Nakaya, H. *see* Hattori, Y., **109**, 1232
- Nakayama, S. Effects of excitatory neurotransmitters on Ca<sup>2+</sup> channel current in smooth muscle cells isolated from guinea-pig urinary bladder, **110**, 317
- Nakayama, S. *see* Nishimura, H., **109**, 443
- Nakazaki, M. *see* Kakei, M., **109**, 1226
- Nakazawa, K., Higo, K., Abe, K., Tanaka, Y., Saito, H. and Matsuki, N. Blockade by calmodulin inhibitors of Ca<sup>2+</sup> channels in smooth muscle from rat vas deferens, **109**, 137
- Nakhostine, N., Ribaut, C., Lamontagne, D., Nadeau, R. and Couture, R. Mediation by B<sub>1</sub> and B<sub>2</sub> receptors of vasodepressor responses to intravenously administered kinins in anaesthetized dogs, **110**, 71
- Naline, E. *see* Martin, C.A.E., **110**, 1311
- Naline, E. *see* Qian, Y., **109**, 774
- Narimatsu, A. *see* Satoh, E., **108**, 484
- Narr, B. *see* Wienen, W., **110**, 245
- Nash, G.B. *see* Perry, I., **110**, 1630
- Naylor, R.J. *see* Cheng, C.H.K., **110**, 1079
- Naylor, R.J. *see* Costall, B., **110**, 1572
- Neild, G.H. *see* Rogerson, M.E., **108**, 838
- Nelemans, A. *see* Henning, R.H., **108**, 717
- Nelemans, A. *see* Henning, R.H., **110**, 133
- Nelemans, A. *see* Henning, R.H., **110**, 747
- Neto, F.R. Electropharmacological effects of berberine on canine cardiac Purkinje fibres and ventricular muscle and atrial muscle of the rabbit, **108**, 534
- Neuilly, G. *see* Sayet, I., **110**, 207
- Neumann, I. *see* Douglas, A.J., **109**, 251
- Newbold, P. and Brain, S.D. The modulation of inflammatory oedema by calcitonin gene-related peptide, **108**, 705
- Nials, A.T., Coleman, R.A., Johnson, M., Magnussen, H., Rabe, K.F. and Vardey, C.J. Effects of  $\beta$ -adrenoceptor agonists in human bronchial smooth muscle, **110**, 1112
- Nials, A.T., Sumner, M.J., Johnson, M. and Coleman, R.A. Investigations into factors determining the duration of action of the  $\beta_2$ -adrenoceptor agonist, salmeterol, **108**, 507
- Nicholls, J. *see* Hourani, S.M.O., **108**, 754
- Nieber, K. *see* Sevcik, J., **110**, 169
- Nijkamp, F.P. *see* De Kimpe, S.J., **109**, 8
- Nijkamp, F.P. *see* Folkerts, G., **108**, 1083
- Nijkamp, F.P. *see* Garssen, J., **109**, 53
- Nijs, G., de Witte, P., Geboes, K., Meulemans, A., Schuurkes, J. and Lemli, J. Influence of rhin anthrone on peristaltic reflex of guinea-pig isolated ileum: involvement of prostaglandins, **108**, 269
- Nishimura, H., Matsubara, T., Ikoma, Y., Nakayama, S. and Sakamoto, N. Effects of prolonged application of isoprenaline on intracellular free magnesium concentration in isolated heart of rat, **109**, 443
- Nishio, S. *see* Ueno, Y., **109**, 1014
- Nistocò, G. *see* Bagetta, G., **108**, 858
- Noack, T. and Deitmer, P. Effects of cicletanine on whole-cell currents of single smooth muscle cells from the guinea-pig portal vein, **109**, 164
- Noack, Th. *see* Ibbotson, T., **108**, 991
- Noble, F., Derrien, M. and Roques, B.P. Modulation of opioid antinociception by CCK at the supraspinal level: evidence of regulatory mechanisms between CCK and enkephalin systems in the control of pain, **109**, 1064
- Noble, M.I.M. *see* McAuliffe, S.J.G., **109**, 405
- Nogueira de Francischi, J., Conroy, D.M., Maghni, K. and Sirois, P. Inhibition by rapamycin of leukocyte migration and bronchial hyperreactivity induced by injection of Sephadex beads to guinea-pigs, **110**, 1381
- Noguera, M.A. and D'Ocon, M.P. Evidence that depletion of internal calcium stores sensitive to noradrenaline elicits a contractile response dependent on extracellular calcium in rat aorta, **110**, 861
- Norel, X., Angrisani, M., Labat, C., Gorenne, I., Dulmet, E., Rossi, F. and Brink, C. Degradation of acetylcholine in human airways: role of butyrylcholinesterase, **108**, 914
- Norman, K.E. *see* Pons, F., **109**, 234
- Nourshargh, S. *see* Pons, F., **109**, 234
- Nourshargh, S. *see* Yarwood, H., **108**, 959
- Nowak, H.P., Mahle, C.D. and Yocca, F.D. [<sup>3</sup>H]-5-carboxamido-tryptamine labels 5-HT<sub>1D</sub> binding sites in bovine substantia nigra, **109**, 1206
- Nyberg, B. *see* Lönnqvist, F., **110**, 929
- O**
- Ocaña, M. and Baeyens, J.M. Differential effects of K<sup>+</sup> channel blockers on antinociception induced by  $\alpha_2$ -adrenoceptor, GABA<sub>B</sub> and  $\kappa$ -opioid receptor agonists, **110**, 1049
- Ochiai, N. *see* Kurihara, J., **109**, 1263
- O'Connor, S.E. *see* Lefèvre-Borg, F., **109**, 1282
- O'Connor, S.E. *see* Leff, P., **108**, 490
- Ogata, N. and Tatebayashi, H. Differential inhibition of a transient K<sup>+</sup> current by chlorpromazine and 4-aminopyridine in neurones of the rat dorsal root ganglia, **109**, 1239
- Ogawa, N. *see* Harada, K., **109**, 679
- Ogawa, N. *see* Miwa, A., **109**, 632
- Ogle, C.W. *see* Hui, S.-C.G., **110**, 1341
- Ohashi, H. *see* Matsuoka, T., **110**, 87
- Ohashi, H. *see* Nagasaki, M., **110**, 399
- Ohfune, Y. *see* Ishida, M., **109**, 1169
- Ohhashi, T. *see* Fukushima, S., **109**, 992
- Ohizumi, Y. *see* Watanabe, A., **109**, 29
- Ohlstein, E.H. *see* Douglas, S.A., **108**, 418
- Ohno, T. *see* Inomata, N., **108**, 111
- Okada, T. *see* Karaki, H., **109**, 486
- Okada, Y. *see* Miwa, A., **109**, 632
- Okamoto, K. *see* Sakuta, H., **109**, 866
- Okumura, H., Ashizawa, N., Kobayashi, F., Arai, K., Asakura, R., Ashikawa, N. and Matsuura, A. Comparison of haemoconcentration induced by big endothelin-1 and endothelin-1 in mice, **110**, 1395
- Okumura, Y. *see* Tsujimoto, S., **109**, 807
- Olgart, C. *see* Wiklund, C.U., **110**, 833

- Oliveira, J.C., Sebastião, A.M. and Ribeiro, J.A. On the high affinity binding site for [<sup>3</sup>H]-1,3-dipropyl-8-cyclopentylxanthine in frog brain membranes, **109**, 518
- Olmos, G., Gabilondo, A.M., Miralles, A., Escriba, P.V. and García-Sevilla, J.A. Chronic treatment with the monoamine oxidase inhibitors clorgyline and pargyline down-regulates non-adrenoceptor [<sup>3</sup>H]-idazoxan binding sites in the rat brain, **108**, 597
- Olson, R.D. *see* Mushlin, P.S., **110**, 975
- Omari, T., Sparrow, M.P., Church, M.K., Holgate, S.T. and Robinson, C. A comparison of the effects of polyarginine and stimulated eosinophils on the responsiveness of the bovine isovolumic bronchial segment preparation, **109**, 553
- Ong, R. *see* Yang, C.M., **110**, 1239
- Orallo, F., Alzueta, A.F., Loza, M.I., Vivas, N., Badía, A., Campos, M., Honrubia, M.A. and Cadavid, M.I. Study of the mechanism of the relaxant action of (+)-glaucine in rat vas deferens, **110**, 943
- Orallo, F. *see* von der Weid, P.-Y., **108**, 638
- Ordaz, E. *see* Hernández, M., **110**, 1413
- Oset-Gasque, M.J., Parramon, M. and Gonzalez, M.P. GABA<sub>B</sub> receptors modulate catecholamine secretion in chromaffin cells by a mechanism involving cyclic AMP formation, **110**, 1586
- O'Shaughnessy, C.T., Waldron, G.J. and Connor, H.E. Lack of effect of sumatriptan and UK-14,304 on capsaicin-induced relaxation of guinea-pig isolated basilar artery, **108**, 191
- O'Shaughnessy, C.T. *see* Butler, A., **109**, 126
- Oshita, M., Kigoshi, S. and Muramatsu, I. Pharmacological characterization of two distinct  $\alpha_1$ -adrenoceptor subtypes in rabbit thoracic aorta, **108**, 1071
- Otsuka, M. *see* Guo, J.-Z., **110**, 1142
- Oudart, N. *see* Burgaud, J.L., **109**, 960
- Owen, D.G. *see* Robertson, B., **109**, 725
- Ozaki, H. *see* Hori, M., **110**, 1527
- Ozaki, H. *see* Kitajima, S., **110**, 263
- P**
- Pacak, K. *see* Yadid, G., **110**, 50
- Page, C.P. *see* Paul, W., **110**, 1565
- Page, C.P. *see* Sasaki, M., **110**, 107
- Paisley, K. *see* Frew, J.D., **110**, 1003
- Paiva, A.C.M. *see* Miasiro, N., **109**, 68
- Palmer, R.M.J. *see* Gardiner, S.M., **110**, 1457
- Palmi, M. *see* Sgaragli, G.P., **110**, 369
- Pang, C.C.Y. *see* Wang, Y.-X., **108**, 398
- Pang, C.C.Y. *see* Wang, Y.-X., **109**, 1186
- Pang, C.C.Y. *see* Wang, Y.-X., **110**, 1232
- Papapetropoulos, A. *see* Marczin, N., **109**, 603
- Papp, J.G. *see* Varro, A., **109**, 895
- Papp, J.G. *see* Vegh, A., **110**, 18
- Paques, C. *see* Boland, B., **108**, 749
- Paques, C. *see* Gailly, Ph., **110**, 326
- Parlani, M., Conte, B., Goso, C., Szallasi, A. and Manzini, S. Capsaicin-induced relaxation in the rat isolated external urethral sphincter: characterization of the vanilloid receptor and mediation by CGRP, **110**, 989
- Parpaglia, P.P. *see* Madeddu, P., **108**, 651
- Parramon, M. *see* Oset-Gasque, M.J., **110**, 1586
- Parratt, J.R. *see* Vegh, A., **110**, 18
- Parratt, J.R. *see* Wainwright, C.L., **109**, 592
- Parsaee, H., McEwan, J.R. and MacDermot, J. Bradykinin-induced release of PGI<sub>2</sub> from aortic endothelial cell lines: responses mediated selectively by Ca<sup>2+</sup> ions or a staurosporine-sensitive kinase, **110**, 411
- Parsons, C.G., Zong, X. and Lux, H.D. Whole cell and single channel analysis of the kinetics of glycine-sensitive N-methyl-D-aspartate receptor desensitization, **109**, 213
- Parsons, R.L. *see* Hardwick, J.C., **108**, 741
- Parsons, R.L. *see* Hardwick, J.C., **110**, 839
- Patacchini, R. *see* Eglezos, A., **109**, 736
- Patmore, L. *see* Clarke, B., **109**, 748
- Patsalos, P.N. *see* Semba, J., **108**, 1117
- Paul, W., Gresele, P., Momi, S., Bianchi, G. and Page, C.P. The effect of defibrotide on thromboembolism in the pulmonary vasculature of mice and rabbits and in the cerebral vasculature of rabbits, **110**, 1565
- Pavenstädt, H., Gloy, J., Leipziger, J., Klär, B., Pfeilschifter, J., Schollmeyer, P. and Greger, R. Effect of extracellular ATP on contraction, cytosolic calcium activity, membrane voltage and ion currents of rat mesangial cells in primary culture, **109**, 953
- Pavlovic, D., Brione, E., De Vernejoul, D. and Aubier, M. Partial inhibition by epithelium of tracheal smooth muscle relaxation induced by the potassium channel activator, BRL 38227, **110**, 139
- Pearson, J.D. *see* Baydoun, A.R., **110**, 1401
- Pearson, J.D. *see* Petros, A.J., **109**, 6
- Peers, S.H., Smillie, F., Elderfield, A.J. and Flower, R.J. Glucocorticoid- and non-glucocorticoid-induction of lipocortins (annexins) 1 and 2 in rat peritoneal leucocytes *in vivo*, **108**, 66
- Peers, S.H. *see* Duncan, G.S., **108**, 62
- Peers, S.H. *see* Perretti, M., **110**, 868
- Pegg, G.G. *see* Sillence, M.N., **109**, 1157
- Pekki, A. *see* Arvola, P., **108**, 980
- Pelckmans, P.A. *see* Boeckxstaens, G.E., **109**, 1079
- Pelckmans, P.A. *see* Boeckxstaens, G.E., **110**, 1329
- Pelckmans, P.P. *see* De Man, J.G., **110**, 559
- Pellicciari, R. *see* Lombardi, G., **110**, 1407
- Pelton, J. *see* Tschöpl, M., **110**, 1098
- Penner, S.B. *see* Allan, D.R., **108**, 870
- Penny, D.M. *see* White, D.G., **108**, 763
- Penz, M.P. *see* Pugsley, M.K., **110**, 1579
- Pepke-Zaba, J. *see* Dinh-Xuan, A.T., **109**, 587
- Pepperl, D.J. *see* Svensson, S.P.S., **110**, 54
- Pérez, O. *see* Valenzuela, C., **109**, 873
- Pérez-Vizcaino, F., Casis, O., Rodriguez, R., Gomez, L.A., Garcia Rafanell, J. and Tamargo, J. Effects of the novel potassium channel opener, UR-8225, on contractile responses in rat isolated smooth muscle, **110**, 1165
- Pérez-Vizcaino, F. *see* Valenzuela, C., **109**, 873
- Perkins, M.N. and Kelly, D. Induction of bradykinin B<sub>1</sub> receptors *in vivo* in a model of ultra-violet irradiation-induced thermal hyperalgesia in the rat, **110**, 1441
- Pérodin, J. *see* Bkaily, G., **110**, 519
- Perreault, C.L. *see* Hurrell, D.G., **109**, 667
- Perretti, M., Duncan, G.S., Flower, R.J. and Peers, S.H. Serum corticosterone, interleukin-1 and tumour necrosis factor in rat experimental endotoxaemia: comparison between Lewis and Wistar strains, **110**, 868
- Perretti, M. *see* Cirino, G., **108**, 573
- Perretti, M. *see* Thiemermann, C., **110**, 177
- Perry, I., Buttrum, S.M. and Nash, G.B. Effect of activation on adhesion of flowing neutrophils to cultured endothelium: time course and inhibition by a calcium channel blocker (nitrendipine), **110**, 1630
- Persson, K., Alm, P., Johansson, K., Larsson, B. and Andersson, K.-E. Nitric oxide synthase in pig lower urinary tract: immunohistochemistry, NADPH diaphorase histochemistry and functional effects, **110**, 521
- Pertwee, R.G., Stevenson, L.A. and Griffin, G. Cross-tolerance between delta-9-tetrahydrocannabinol and the cannabimimetic agents, CP 55,940, WIN 55,212-2 and anandamide, **110**, 1483
- Peters, J.A., Malone, H.M. and Lambert, J.J. An electrophysiological investigation of the properties of 5-HT<sub>3</sub> receptors of rabbit nodose ganglion neurones in culture, **110**, 665
- Petit, F. *see* Beaujouan, J.-C., **108**, 793
- Petros, A.J., Bogle, R.G. and Pearson, J.D. Propofol stimulates nitric oxide release from cultured porcine aortic endothelial cells, **109**, 6
- Pettipher, E.R., Salter, E.D., Breslow, R., Raycroft, L. and Showell, H.J. Specific inhibition of leukotriene B<sub>4</sub> (LTB<sub>4</sub>)-induced neutrophil emigration by 20-hydroxy LTB<sub>4</sub>: implications for the regulation of inflammatory responses, **110**, 423
- Pfaffendorf, M. and Van Zwieten, P.A. Mediation by the same muscarinic receptor subtype of phasic and tonic contractile activities in the rat isolated portal vein, **108**, 132
- Pfeilschifter, J. and Merriweather, C. Extracellular ATP and UTP activation of phospholipase D is mediated by protein kinase C- $\epsilon$  in rat renal mesangial cells, **110**, 847
- Pfeilschifter, J. *see* Pavenstädt, H., **109**, 953
- Phul, R.K. *see* Michel, A.D., **109**, 287
- Piccardi, M.P. *see* Del Zompo, M., **109**, 411
- Pickard, R.S., Powell, P.H. and Zar, M.A. Evidence against vasoactive intestinal polypeptide as the relaxant neurotransmitter in human cavernosal smooth muscle, **108**, 497
- Pickles, R.J. *see* MacVinish, L.J., **108**, 462
- Piedimonte, G. *see* Geppetti, P., **108**, 646

- Pierre, F. *see* Lefèvre-Borg, F., 109, 1282  
 Pietra, C. *see* Corsi, M., 108, 1164  
 Pilot, M.-A. *see* Qin, X.Y., 108, 44  
 Pimoule, C. *see* Lefèvre-Borg, F., 109, 1282  
 Pintor, J., Díaz-Rey, M.A. and Miras-Portugal, M.T. Ap<sub>5</sub>A and ADP-β-S binding to P<sub>2</sub> purinoceptors present on rat brain synaptic terminals, 108, 1094  
 Pipili-Synetos, E., Sakakoula, E. and Maragoudakis, M.E. Nitric oxide is involved in the regulation of angiogenesis, 108, 855  
 Pique, J.M. *see* Esplugues, J.V., 108, 9  
 Pirisino, R., Banchelli, G., Ignesti, G., Mantelli, L., Matucci, R., Raimondi, L. and Buffoni, F. Calcium modulatory properties of 2,6-dibutylbenzylamine (B25) in rat isolated vas deferens, cardiac and smooth muscle preparations, 109, 1038  
 Piroton, S. *see* Motte, S., 109, 967  
 Pistelli, A. *see* Salvemini, D., 108, 162  
 Pistelli, A. *see* Salvemini, D., 109, 430  
 Pistelli, A. *see* Salvemini, D., 110, 937  
 Plane, F. and Garland, C.J. Differential effects of acetylcholine, nitric oxide and levromakalim on smooth muscle membrane potential and tone in the rabbit basilar artery, 110, 651  
 Plante, G.E. *see* Filep, J.G., 109, 880  
 Pojani, G. *see* Corsi, M., 108, 1164  
 Polak, J.M. *see* Rutherford, R.A.D., 109, 544  
 Polak, J.M. *see* Walsh, D.A., 108, 304  
 Pons, F., Rossi, A.G., Norman, K.E., Williams, T.J. and Nourshargh, S. Role of platelet-activating factor (PAF) in platelet accumulation in rabbit skin: effect of the novel long-acting PAF antagonist, UK-74,505, 109, 234  
 Pook, P., Brugger, F., Hawkins, N.S., Clark, K.C., Watkins, J.C. and Evans, R.H. A comparison of the actions of agonists and antagonists at non-NMDA receptors of C fibres and motoneurons of the immature rat spinal cord *in vitro*, 108, 179  
 Poole, S. *see* Ferreira, S.H., 110, 1227  
 Poole-Wilson, P.A. *see* Wynne, D.G., 109, 1071  
 Poon, C.I. *see* Wang, Y.-X., 110, 1232  
 Poon, K.S. *see* Wang, Y.-X., 110, 1232  
 Pörsti, I. *see* Arvola, P., 108, 948  
 Pörsti, I. *see* Arvola, P., 108, 980  
 Poston, L. *see* Graves, J., 108, 631  
 Powell, P.H. *see* Pickard, R.S., 108, 497  
 Powis, D.A. *see* Hill, C.E., 110, 281  
 Pratt, G.D. and Bowery, N.G. Repeated administration of desipramine and a GABA<sub>B</sub> receptor antagonist, CGP 36742, discretely up-regulates GABA<sub>B</sub> receptor binding sites in rat frontal cortex, 110, 724  
 Pregenzer, J.F. *see* Im, W.B., 110, 677  
 Pretolani, M. *see* Zuany-Amorim, C., 110, 917  
 Preziosi, P. *see* Ciabattini, G., 109, 243  
 Prieto, D. *see* Hernández, M., 110, 1413  
 Prieto, D. *see* Simonsen, U., 109, 998  
 Prior, A.M. *see* Atack, J.R., 110, 809  
 Pruneau, D. *see* Cocks, T.M., 110, 360  
 Puech, R. *see* Hillaire-Buys, D., 109, 183  
 Pugsley, M.K., Saint, D.A., Penz, M.P. and Walker, M.J.A. Electrophysiological and antiarrhythmic actions of the κ agonist PD 129290, and its R,R(+)-enantiomer, PD 129289, 110, 1579  
 Purkiss, J.R. *see* Wilkinson, G.F., 108, 689  
 Purkiss, J.R., Wilkinson, G.F. and Boarder, M.R. Evidence for a nucleotide receptor on adrenal medullary endothelial cells linked to phospholipase C and phospholipase D, 108, 1031  
 Pyne, N.J. *see* Pyne, S., 110, 477  
 Pyne, S. and Pyne, N.J. Differential effects of B<sub>2</sub> receptor antagonists upon bradykinin-stimulated phospholipase C and D in guinea-pig cultured tracheal smooth muscle, 110, 477
- Q**
- Qian, Y., Naline, E., Karlsson, J.-A., Raeburn, D. and Advenier, C. Effects of rolipram and siguzodan on the human isolated bronchus and their interaction with isoprenaline and sodium nitroprusside, 109, 774  
 Qin, X.Y., Pilot, M.-A., Thompson, H. and Scott, M. Effects of cholinergic and 5-hydroxytryptamine<sub>1</sub> receptor antagonism on erythromycin-induced canine intestinal motility disruption and emesis, 108, 44  
 Qiu, Z. and Morgan, J.P. Differential effects of cocaine and cocaethylene on intracellular Ca<sup>2+</sup> and myocardial contraction in cardiac myocytes, 109, 293  
 Quartara, L. *see* Eglezos, A., 109, 736  
 Quartu, M. *see* Del Zompo, M., 109, 411  
 Quilley, C.P., Lin, Y.-S.R. and McGiff, J.C. Chloride anion concentration as a determinant of renal vascular responsiveness to vasoconstrictor agents, 108, 106
- R**
- Rabe, K.F. *see* Nials, A.T., 110, 1112  
 Raberger, G. *see* Todt, H., 110, 145  
 Radomski, M.W. *see* Smith, J.A., 108, 1107  
 Raeburn, D. *see* Qian, Y., 109, 774  
 Raeburn, D. *see* Tomkinson, A., 108, 57  
 Ragan, C.I. *see* Atack, J.R., 110, 809  
 Raimondi, L. *see* Pirisino, R., 109, 1038  
 Raiteri, M. *see* Fedele, E., 110, 20  
 Rajanayagam, M.A.S., Li, C.G. and Rand, M.J. Differential effects of hydroxocobalamin on NO-mediated relaxations in rat aorta and anococcygeus muscle, 108, 3  
 Rajdev, S. and Reynolds, I.J. Effects of pH on the actions of dizocilpine at the N-methyl-D-aspartate receptor complex, 109, 107  
 Rakotoarisoa, L. *see* Sayet, I., 110, 207  
 Ralevic, V., Belai, A. and Burnstock, G. Impaired sensory-motor nerve function in the isolated mesenteric arterial bed of streptozotocin-diabetic and ganglioside-treated streptozotocin-diabetic rats, 110, 1105  
 Ramcharan, M. *see* Brown, C.M., 108, 516  
 Ramjoué, H.-p.R. *see* Criscione, L., 110, 761  
 Ramwell, P.W. *see* Farhat, M.Y., 110, 719  
 Ramwell, P.W. *see* Vargas, R., 109, 612  
 Rand, M.J. and Li, C.G. Modulation of acetylcholine-induced contractions of the rat anococcygeus muscle by activation of nitrergic nerves, 110, 1479  
 Rand, M.J. *see* Rajanayagam, M.A.S., 108, 3  
 Randall, M.D. and Griffith, T.M. Modulation of vasodilatation to levromakalim by hypoxia and EDRF in the rabbit isolated ear: a comparison with pinacidil, sodium nitroprusside and verapamil, 109, 386  
 Randall, M.D., Smith, J.A. and Griffith, T.M. Hypercholesterolaemia severely impairs EDRF-dependent collateral perfusion following acute arterial occlusion in rabbit isolated ear, 109, 838  
 Rang, H.P. *see* Andreeva, L., 108, 185  
 Rang, H.P. *see* Maggi, C.A., 108, 801  
 Ransil, B.J. *see* Hurrell, D.G., 109, 667  
 Ratti, E. *see* Tacconi, S., 108, 577  
 Raycroft, L. *see* Pettipher, E.R., 110, 423  
 Razzaque, Z. *see* Rupniak, N.M.J., 110, 1607  
 Read, M.A., Boura, A.L.A. and Walters, W.A.W. Vascular actions of purines in the foetal circulation of the human placenta, 110, 454  
 Reancharoen, T. *see* MacVinish, L.J., 108, 469  
 Rechtman, M. and Majewski, H. A facilitatory effect of anti-angiotensin drugs on vagal bradycardia in the pithed rat and guinea-pig, 110, 289  
 Redfern, W.S., MacKinnon, A.C., Brown, C.M., Martin, A.B., Kilpatrick, A.T., Clague, R.U. and Spedding, M. Modulation of central noradrenergic function by RS-15385-197, 108, 526  
 Redfern, W.S. *see* Brown, C.M., 108, 516  
 Rees, S.A. and Curtis, M.J. Selective I<sub>K</sub> blockade as an antiarrhythmic mechanism: effects of UK66,914 on ischaemia and reperfusion arrhythmias in rat and rabbit hearts, 108, 139  
 Reeve, A.J. *see* Beer, M.S., 110, 1196  
 Reeves, J.J., Coates, J., Jarvis, J.E., Sheehan, M.J. and Strong, P. Characterization of the adenosine receptor mediating contraction in rat colonic muscularis mucosae, 110, 1255  
 Regan, J.W. *see* Svensson, S.P.S., 110, 54  
 Rego, A. *see* Vargas, R., 109, 612  
 Regoli, D. *see* Chahine, R., 108, 318  
 Regoli, D. *see* Lopes, P., 110, 1369  
 Reijnart, I. *see* Folkerts, G., 108, 1083  
 Reimann, W. *see* Driessen, B., 108, 806  
 Renesto, P., Balloy, V., Kamimura, T., Masuda, K.-i., Imaizumi, A. and Chignard, M. Inhibition by recombinant SLPI and half-SLPI (Asn<sup>55</sup>-Ala<sup>107</sup>) of elastase and cathepsin G activities: consequence for neutrophil-platelet cooperation, 108, 1100

- Renouard, A., Widdowson, P.S. and Cordi, A. [ $^3\text{H}$ ]-idazoxan binding to rabbit cerebral cortex recognises multiple imidazoline  $\text{I}_2$ -type receptors: pharmacological characterization and relationship to monoamine oxidase, **109**, 625
- Renzetti, A.R. *see* Mattera, G.G., **110**, 331
- Reynolds, I.J. *see* Rajdev, S., **109**, 107
- Rhodes, K.F. *see* Lattimer, N., **109**, 1192
- Ribas, C., Miralles, A. and García-Sevilla, J.A. Acceleration by chronic treatment with clorgyline of the turnover of brain  $\alpha_2$ -adrenoceptors in normotensive but not in spontaneously hypertensive rats, **110**, 99
- Ribeiro, J.A. *see* Oliveira, J.C., **109**, 518
- Ribes, G. *see* Hillaire-Buys, D., **109**, 183
- Ribuot, C. *see* Nakhostine, N., **110**, 71
- Richard, V., Ghaleh, B., Berdeaux, A. and Giudicelli, J.-F. Comparison of the effects of EXP3174, an angiotensin II antagonist and enalaprilat on myocardial infarct size in anaesthetized dogs, **110**, 969
- Richardson, P.J. *see* Kirkpatrick, K.A., **110**, 949
- Richter, R. *see* Lei, S., **108**, 941
- Ries, U. *see* Wienen, W., **110**, 245
- Rigby, M. *see* Hargreaves, R.J., **110**, 36
- Rioux, F. *see* Levesque, L., **109**, 1254
- Ritter, J.M. *see* Chowienzyk, P.J., **110**, 736
- Rivera, L. *see* Hernández, M., **110**, 1413
- Rivera, L. *see* Simonsen, U., **109**, 998
- Roach, A.G. *see* White, D.G., **108**, 763
- Roberts, S.J., Molenaar, P. and Summers, R.J. Characterization of propranolol-resistant (-)-[ $^{125}\text{I}$ ]-cyanopindolol binding sites in rat soleus muscle, **109**, 344
- Robertson, B. and Owen, D.G. Pharmacology of a cloned potassium channel from mouse brain (MK-1) expressed in CHO cells: effects of blockers and an 'inactivation peptide', **109**, 725
- Robertson, M.J. *see* Clark, K.L., **109**, 148
- Robertson, S. *see* Cameron, N.E., **109**, 972
- Robertson, S.J. and Martin, R.J. Levamisole-activated single-channel currents from muscle of the nematode parasite *Ascaris suum*, **108**, 170
- Robichaud, A., Saunier, C., Michoud, M.C. and du Souich, P. Muscarinic effect of atrial natriuretic peptide on rabbit airways, **110**, 804
- Robinson, C. *see* Herbert, C.A., **110**, 840
- Robinson, C. *see* Omari, T., **109**, 553
- Rodger, I.W. *see* Giembycz, M.A., **108**, 824
- Rodger, I.W. *see* McKee, K.T., **110**, 693
- Rodger, I.W. *see* Tousignant, C., **108**, 383
- Rodriguez, R. *see* Perez-Vizcaino, F., **110**, 1165
- Rogers, D.F. *see* Hirayama, Y., **108**, 844
- Rogers, D.F. *see* Lei, Y.-H., **108**, 228
- Rogerson, M.E., Cairns, H.S., Fairbanks, L.D., Westwick, J. and Neild, G.H. Endothelin-1 in the rabbit: interactions with cyclo-oxygenase and NO-synthase products, **108**, 838
- Rola-Pleszczynski, M. *see* Bkaily, G., **110**, 519
- Romanelli, L. *see* Morrone, L.A., **109**, 48
- Romeijn, S.G. *see* Schipper, N.G.M., **110**, 1335
- Roppolo, J.R. *see* Yoshiyama, M., **110**, 77
- Roques, B.P. *see* Noble, F., **109**, 1064
- Ross, S.B. *see* Kelder, D., **109**, 207
- Rossetti, M. *see* Ben-Jebria, A., **109**, 131
- Rossi, A.G. *see* Pons, F., **109**, 234
- Rossi, F. *see* Norel, X., **108**, 914
- Rossoni, G. *see* Sala, A., **110**, 1206
- Roth, R.A. *see* Hoorn, C.M., **110**, 597
- Rousseau, A. *see* Filep, J.G., **109**, 880
- Rousseau, A. *see* Filep, J.G., **110**, 1213
- Rudel, R. *see* McMillian, M.K., **108**, 453
- Ruelle, A. *see* Fedele, E., **110**, 20
- Ruffolo Jr, R.R. *see* Brooks, D.P., **109**, 581
- Ruii, S. *see* Del Zompo, M., **109**, 411
- Rump, L.C. *see* Bohmann, C., **108**, 262
- Ruocco, C. *see* Failli, P., **110**, 213
- Rupniak, N.M.J., Boyce, S., Williams, A.R., Cook, G., Longmore, J., Razzaque, Z., Seabrook, G.R., Caesar, M., Iverson, S.D. and Hill, R.G. Antinociceptive activity of NK $_1$  receptor antagonists: non-specific effects of racemic RP67580, **110**, 1607
- Ruskoaho, H. *see* Arvola, P., **108**, 948
- Ruskoaho, H. *see* Arvola, P., **108**, 980
- Russell, J.A. *see* Douglas, A.J., **109**, 251
- Rutherford, R.A.D., Wharton, J., McCarthy, A., Gordon, L., Sullivan, M.H.F., Elder, M.G. and Polak, J.M. Differential localization of endothelin  $\text{ET}_\text{A}$  and  $\text{ET}_\text{B}$  binding sites in human placenta, **109**, 544

## S

- Saffroy, M. *see* Beaujouan, J.-C., **108**, 793
- Saint, D.A. *see* Pugsley, M.K., **110**, 1579
- Saito, H. *see* Abe, E., **108**, 387
- Saito, H. *see* Nakazawa, K., **109**, 137
- Saitoh, T. *see* Ishida, M., **109**, 1169
- Sakamoto, N. *see* Nishimura, H., **109**, 443
- Sakkoula, E. *see* Pipili-Synetos, E., **108**, 855
- Sakuta, H., Okamoto, K. and Watanabe, Y. Antiarrhythmic drugs, clofilium and cibenzoline are potent inhibitors of glibenclamide-sensitive  $\text{K}^+$  currents in *Xenopus* oocytes, **109**, 866
- Sala, A., Rossoni, G., Buccellati, C., Berti, F., Folco, G. and MacIouf, J. Formation of sulphidopeptide-leukotrienes by cell-cell interaction causes coronary vasoconstriction in isolated, cell-perfused heart of rabbit, **110**, 1206
- Sallés, J. and Badia, A. Modulation of  $\alpha_1$ -adrenoceptors and functional consequences in the bisected rat vas deferens following chronic inhibition of neuronal noradrenaline uptake, **108**, 678
- Salom, J.B., Torregrosa, G., Barberá, M.D., Jover, T. and Alborch, E. Endothelin receptors mediating contraction in goat cerebral arteries, **109**, 826
- Salomone, S. and Godfraind, T. Radioligand and functional estimates of the interaction of the 1,4-dihydropyridines, isradipine and lacidipine, with calcium channels in smooth muscle, **109**, 100
- Salter, E.D. *see* Pettipher, E.R., **110**, 423
- Salvemini, D., Pistelli, A. and Anggard, E. Vascular and anti-platelet actions of 1,2- and 1,3-glycerol dinitrate, **110**, 937
- Salvemini, D., Pistelli, A. and Mollace, V. Release of nitric oxide from glyceryl trinitrate by captopril but not enalaprilat: *in vitro* and *in vivo* studies, **109**, 430
- Salvemini, D., Pistelli, A. and Vane, J. Conversion of glyceryl trinitrate to nitric oxide in tolerant and non-tolerant smooth muscle and endothelial cells, **108**, 162
- Samanin, R. *see* Grignaschi, G., **109**, 491
- Sanders, K.M. *see* Bayguinov, O., **108**, 1024
- Sanders, K.M. *see* Shuttleworth, C.W., **109**, 739
- Sandrasegarane, L. *see* Xu, Y., **108**, 6
- Sandström, P.-E. Inhibition by hydrochlorothiazide of insulin release and calcium influx in mouse pancreatic  $\beta$ -cells, **110**, 1359
- Sanger, G.J. *see* Wardle, K.A., **110**, 1593
- Sangha, R. *see* Senior, J., **108**, 501
- Santiago, M., Machado, A. and Cano, J. *In vivo* release of dopamine from rat striatum, substantia nigra and prefrontal cortex: differential modulation by baclofen, **109**, 814
- Santicoli, P., Del Bianco, E., Figini, M., Bevan, S. and Maggi, C.A. Effect of capsazepine on the release of calcitonin gene-related peptide-like immunoreactivity (CGRP-LI) induced by low pH, capsaicin and potassium in rat soleus muscle, **110**, 609
- Santicoli, P. *see* Zagorodnyuk, V., **110**, 795
- Sasa, M. *see* Momiyama, T., **109**, 933
- Sasa, M. *see* Momiyama, T., **110**, 713
- Sasaki, H. *see* Sekizawa, K., **110**, 816
- Sasaki, M., Herd, C.M. and Page, C.P. Effect of heparin and a low-molecular weight heparinoid on PAF-induced airway responses in neonatally immunized rabbits, **110**, 107
- Sassard, J. *see* Zhang, B.-L., **110**, 235
- Sato, K. *see* Hori, M., **110**, 1527
- Sato, T., Wu, B., Nakamura, S., Kiyosue, T. and Arita, M. Cibenzoline inhibits diazoxide- and 2,4-dinitrophenol-activated ATP-sensitive  $\text{K}^+$  channels in guinea-pig ventricular cells, **108**, 549
- Sato, T. and Seto, K. Centrally administered ouabain aggravates rapid-eye-movement-sleep-related bradyarrhythmias in freely moving rats, **110**, 253
- Satoh, E., Narimatsu, A., Hosohata, Y., Tsuchihashi, H. and Nagatomo, T. The affinity of betaxolol, a  $\beta_1$ -adrenoceptor-selective blocking agent, for  $\beta$ -adrenoceptors in the bovine trachea and heart, **108**, 484
- Satoh, H. *see* Lou, Y.-P., **109**, 765
- Saunier, C. *see* Robichaud, A., **110**, 804
- Saville, V.L. *see* MacKenzie, I., **110**, 531

- Savineau, J.-P. *see* Ben-Jebria, A., 109, 131  
 Sawanobori, T. *see* Sunami, A., 110, 183  
 Sawanobori, T. *see* Yamane, T.-i., 108, 812  
 Sayet, I., Neuilly, G., Rakotoarisoa, L., Mironneau, C. and Mironneau, J. Relation between  $\alpha_1$ -adrenoceptor subtypes and noradrenaline-induced contraction in rat portal vein smooth muscle, 110, 207  
 Schaeffer, J.C. *see* Kusama, T., 109, 200  
 Scheinin, M. *see* Svensson, S.P.S., 110, 54  
 Schellenberg, R.R. *see* Ishida, K., 108, 700  
 Schipper, N.G.M., Verhoef, J.C., De Lannoy, L.M., Romeijn, S.G., Brakkee, J.H., Wiegant, V.M., Gispen, W.H. and Merkus, F.W.H.M. Nasal administration of an ACTH(4-9) peptide analogue with dimethyl- $\beta$ -cyclodextrin as absorption enhancer pharmacokinetics and dynamics, 110, 1335  
 Schirner, M. and Taube, C. Different effects of aspirin on blood pressure of spontaneously hypertensive rats (SHR) with high and spontaneously low levels of blood pressure, 109, 900  
 Schoemaker, H. *see* Lefèvre-Borg, F., 109, 1282  
 Scholfield, C.N. *see* McGivern, J., 109, 535  
 Schölkens, A. *see* Baumgarten, C.R., 108, 293  
 Schölkens, B.A. *see* Scholz, W., 109, 562  
 Schollmeyer, P. *see* Bohmann, C., 108, 262  
 Schollmeyer, P. *see* Pavenstädt, H., 109, 953  
 Scholz, W., Albus, U., Lang, H.J., Linz, W., Martorana, P.A., Englert, H.C. and Schölkens, B.A. Hoe 694, a new  $\text{Na}^+/\text{H}^+$  exchange inhibitor and its effects in cardiac ischaemia, 109, 562  
 Schott, C.A., Gray, G.A. and Stoclet, J.-C. Dependence of endotoxin-induced vascular hyporeactivity on extracellular L-arginine, 108, 38  
 Schreibmayer, W. *see* Tripathi, O., 108, 865  
 Schulz, R. *see* Smith, J.A., 108, 1107  
 Schuurkes, J. *see* Nijs, G., 108, 269  
 Schuurkes, J.A.J. *see* Tokuhara, T., 110, 297  
 Scott, M. *see* Qin, X.Y., 108, 44  
 Scott, T.R.D. and Bennett, M.R. The effect of ions and second messengers on long-term potentiation of chemical transmission in avian ciliary ganglia, 110, 461  
 Scott, T.R.D. and Bennett, M.R. The effect of nitric oxide on the efficacy of synaptic transmission through the chick ciliary ganglion, 110, 627  
 Seabrook, G.R. *see* Caesar, M., 109, 918  
 Seabrook, G.R. *see* Rupniak, N.M.J., 110, 1607  
 Sebastião, A.M. *see* Oliveira, J.C., 109, 518  
 Sekizawa, K., Fukushima, T., Ikarashi, Y., Maruyama, Y. and Sasaki, H. The role of nitric oxide in cholinergic neurotransmission in rat trachea, 110, 816  
 Self, C.H. *see* Milton, N.G.N., 109, 88  
 Seligsohn, E.E. and Bill, A. Effects of  $N^G$ -nitro-L-arginine methyl ester on the cardiovascular system of the anaesthetized rabbit and on the cardiovascular response to thyrotropin-releasing hormone, 109, 1219  
 Semba, J., Curzon, G. and Patsalos, P.N. Antiepileptic drug pharmacokinetics and neuropharmacokinetics in individual rats by repetitive withdrawal of blood and cerebrospinal fluid: milacemide, 108, 1117  
 Senior, J., Marshall, K., Sangha, R. and Clayton, J.K. *In vitro* characterization of prostanoid receptors on human myometrium at term pregnancy, 108, 501  
 Serebryakov, V.N. *see* von der Weid, P.-Y., 108, 638  
 Seto, K. *see* Sato, T., 110, 253  
 Sevcik, J. *see* Finta, E.P., 109, 308  
 Sevcik, J., Nieber, K., Driessen, B. and Illes, P. Effects of the central analgesic tramadol and its main metabolite, *O*-desmethyltramadol, on rat locus coeruleus neurones, 110, 169  
 Sevilla, E.L. *see* Hui, S.-C.G., 110, 1341  
 Sgaragli, G.P., Valoti, M., Gorelli, B., Fusi, F., Palmi, M. and Mantovani, P. Calcium antagonist and antiperoxidant properties of some hindered phenols, 110, 369  
 Shafii, M. *see* Aboud, R., 109, 80  
 Shankley, N.P. *see* Hull, R.A.D., 108, 734  
 Shankley, N.P. *see* Welsh, N.J., 109, 941  
 Sharp, T., McQuade, R., Fozard, J.R. and Hoyer, D. The novel 5-HT<sub>1A</sub> receptor antagonist, SDZ 216-525, decreases 5-HT release in rat hippocampus *in vivo*, 109, 699  
 Shaw, J.S. *see* Heapy, C.G., 108, 209  
 Sheehan, M.J. *see* Reeves, J.J., 110, 1255  
 Sheng, J.-Z. *see* Dong, H., 109, 113  
 Shephard, S.L., Williamson, D.J., Hill, R.G. and Hargreaves, R.J. The non-peptide neurokinin, receptor antagonist, RP 67580, blocks neurogenic plasma extravasation in the dura mater of rats, 108, 11  
 Shigenobu, K. *see* Agata, N., 108, 571  
 Shigenobu, K. *see* Ueno, Y., 109, 1014  
 Shikada, K.-i. and Tanaka, S. Influence of epithelium on the inhibition of melittin-induced contraction of guinea-pig isolated trachea by the potassium channel opener NIP-121, 109, 1091  
 Shimamoto, K. *see* Ishida, M., 109, 1169  
 Shinkai, M., Takayanagi, I. and Kato, T. Tachykinin receptors of the NK<sub>2</sub> type involved in the acetylcholine release by nicotine in guinea-pig bladder, 108, 759  
 Shinoda, H. *see* Hirafuji, M., 109, 524  
 Shinozaki, H. *see* Ishida, M., 109, 1169  
 Shinozaki, Y. *see* Hashimoto, M., 108, 604  
 Shirasaki, T. *see* Yakushiji, T., 109, 819  
 Short, B.G. *see* Brooks, D.P., 109, 581  
 Shorthouse, M. *see* Middleton, S.J., 108, 974  
 Showell, H.J. *see* Pettipher, E.R., 110, 423  
 Shuttleworth, C.W., Sanders, K.M. and Keef, K.D. Inhibition of nitric oxide synthesis reveals non-cholinergic excitatory neurotransmission in the canine proximal colon, 109, 739  
 Siegel, M.I. *see* Bolser, D.C., 110, 491  
 Silinsky, E.M. *see* Hunt, J.M., 110, 828  
 Silke, B. *see* Kelso, E.J., 110, 1387  
 Sillence, M.N., Moore, N.G., Pegg, G.G. and Lindsay, D.B. Ligand binding properties of putative  $\beta_2$ -adrenoceptors compared in brown adipose tissue and in skeletal muscle membranes, 109, 1157  
 Simmons, N.L. *see* Griffiths, N.M., 108, 575  
 Simonsen, U., Prieto, D., Rivera, L., Hernández, M., Mulvany, M.J. and García-Sacristán, A. Heterogeneity of muscarinic receptors in lamb isolated coronary resistance arteries, 109, 998  
 Simonsen, U. *see* Hernández, M., 110, 1413  
 Singer, E.A. *see* Agneter, E., 108, 370  
 Sirois, M.G. *see* Filep, J.G., 109, 880  
 Sirois, P. *see* Filep, J.G., 108, 323  
 Sirois, P. *see* Filep, J.G., 109, 637  
 Sirois, P. *see* Filep, J.G., 109, 880  
 Sirois, P. *see* Filep, J.G., 110, 1213  
 Sirois, P. *see* Nogueira de Francischi, J., 110, 1381  
 Skoogh, B.-E. *see* Arakawa, H., 110, 127  
 Skoogh, B.-E. *see* Kawikova, I., 110, 657  
 Skoogh, B.-E. *see* Lindén, A., 109, 845  
 Slater, P., McConnell, S.E., D'Souza, S.W. and Barson, A.J. Postnatal changes in *N*-methyl-D-aspartate receptor binding and stimulation by glutamate and glycine of [<sup>3</sup>H]-MK-801 binding in human temporal cortex, 108, 1143  
 Small, A.M. *see* Chiu, P., 109, 1149  
 Small, C. *see* Brown, C.M., 108, 516  
 Small, R.C. *see* Chiu, P., 109, 1149  
 Small, R.C. *see* Cook, S.J., 109, 1140  
 Smart, T.G. *see* Bowie, D., 109, 779  
 Smillie, F. *see* Peers, S.H., 108, 66  
 Smith, A.D. Obituary: Hugh Blaschko, FRS (1900–1993), 110, 1275  
 Smith, C.C.T. *see* McAuliffe, S.J.G., 109, 405  
 Smith, D. *see* Hargreaves, R.J., 110, 36  
 Smith, J.A., Radomski, M.W., Schulz, R., Moncada, S. and Lewis, M.J. Porcine ventricular endocardial cells in culture express the inducible form of nitric oxide synthase, 108, 1107  
 Smith, J.A. *see* Lang, D., 108, 290  
 Smith, J.A. *see* Randall, M.D., 109, 838  
 Smith, S.A. *see* Brown, C.A., 108, 312  
 Smith, S.A. *see* Brown, C.A., 110, 1017  
 Smith, W.H.T. *see* Matthews, E.K., 110, 1248  
 Smyth, D.D. *see* Allan, D.R., 108, 870  
 Snetkov, V.A. *see* von der Weid, P.-Y., 108, 638  
 Snow, H.M. *see* McAuliffe, S.J.G., 108, 901  
 Snow, H.M. *see* McAuliffe, S.J.G., 109, 405  
 Soares-da-Silva, P. Kinetic study of the tubular dopamine outward transporter in the rat and dog kidney, 109, 577  
 Soares-da-Silva, P. Renal tubular dopamine outward transfer during  $\text{Na}^+/\text{H}^+$  exchange activation by  $\alpha_1$ - and  $\alpha_2$ -adrenoceptor agonists, 109, 569  
 Sobey, C.G., Dalipram, R.A. and Woodman, O.L. Allopurinol and amlodipine improve coronary vasodilatation after myocardial

- ischaemia and reperfusion in anaesthetized dogs, 108, 342  
 Soltoff, S.P. *see* McMillian, M.K., 108, 453  
 Soper, B.D. *see* Tepperman, B.L., 110, 229  
 Sorrentino, L. *see* Cirino, G., 108, 573  
 Sorrentino, R. *see* Mitchell, J.A., 109, 265  
 Souness, J.E. *see* Turner, N.C., 108, 876  
 Span, P. *see* Folkerts, G., 108, 1083  
 Sparrow, M.P. *see* Omari, T., 109, 553  
 Späth, L. *see* von Kügelgen, I., 110, 1544  
 Spedding, M. *see* Brown, C.M., 108, 516  
 Spedding, M. *see* Brown, C.M., 109, 175  
 Spedding, M. *see* Clarke, B., 109, 748  
 Spedding, M. *see* Kenny, B.A., 108, 93  
 Spedding, M. *see* Kenny, B.A., 109, 437  
 Spedding, M. *see* MacKinnon, A.C., 109, 371  
 Spedding, M. *see* Redfern, W.S., 108, 526  
 Sperlich, J. *see* Waelbroeck, M., 109, 360  
 Spivak, C.E. *see* Kusama, T., 109, 200  
 St-Pierre, S. *see* Benchenkroun, M.T., 109, 902  
 Stanfa, L.C. and Dickenson, A.H. Cholecystokinin as a factor in the enhanced potency of spinal morphine following carrageenin inflammation, 108, 967  
 Stankova, J. *see* Bkaily, G., 110, 519  
 Stanton, J.A. *see* Beer, M.S., 110, 1196  
 Starke, K. *see* Bültmann, R., 108, 336  
 Starke, K. *see* Bültmann, R., 108, 1062  
 Starke, K. *see* Driessen, B., 108, 443  
 Starke, K. *see* Kurz, K., 110, 1465  
 Starke, K. *see* von Kügelgen, I., 110, 1544  
 Stevens, A.D. *see* Lumbers, E.R., 110, 821  
 Stevens, E.J., Willars, G.B., Lidbury, P., House, F. and Tomlinson, D.R. Vasoreactivity and prostacyclin release in streptozotocin-diabetic rats: effects of insulin or aldose reductase inhibition, 109, 980  
 Stevenson, L.A. *see* Pertwee, R.G., 110, 1483  
 Stevenson, R.D. *see* Chetibi, S., 108, 248  
 Steward, L.J. *see* Andrews, N., 109, 171  
 Stewart, T.L. *see* Michel, A.D., 109, 287  
 Stillings, M.R. *see* Brown, C.A., 110, 1017  
 Stjärne, L. *see* Bao, J.-X., 110, 1421  
 Stoclet, J.-C. *see* Schott, C.A., 108, 38  
 Stoclet, J.-C. *see* Tschöpl, M., 110, 1098  
 Stone, T.W. *see* Connolly, G.P., 110, 854  
 Stone, T.W. *see* Connolly, G.P., 110, 1297  
 Stone, T.W. *see* Higgins, M.J., 109, 1164  
 Stone, T.W. *see* MacGregor, D.G., 109, 316  
 Stone, T.W. *see* MacGregor, D.G., 110, 470  
 Stonier, C. *see* Harding, P., 108, 327  
 Street, L.J. *see* Beer, M.S., 110, 1196  
 Strong, P. *see* Gurden, M.F., 109, 693  
 Strong, P. *see* Reeves, J.J., 110, 1255  
 Strosberg, A.D. *see* Lönnqvist, F., 110, 929  
 Strübing, C., Hering, S. and Glossmann, H. Evidence for an external location of the dihydropyridine agonist receptor site on smooth muscle and skeletal muscle calcium channels, 108, 884  
 Struyker-Boudier, H.A.J. *see* Drieman, J.C., 108, 204  
 Stubbs, C.M. *see* Beattie, D.T., 108, 146  
 Sturgess, N.C. *see* BoSmith, R.E., 110, 343  
 Stutzmann, J. *see* Bricca, G., 110, 1537  
 Su, M.-J. *see* Ko, F.-N., 110, 882  
 Su, M.J., Chang, G.J. and Kuo, S.C. Mechanical and electrophysiological studies on the positive inotropic effect of 2-phenyl-4-oxo-hydroquinoline in rat cardiac tissues, 110, 310  
 Sudjarwo, S.A. *see* Karaki, H., 109, 486  
 Sullivan, M.H.F. *see* Rutherford, R.A.D., 109, 544  
 Summers, R.J. *see* Roberts, S.J., 109, 344  
 Sumner, M.J. *see* Nials, A.T., 108, 507  
 Sumner, M.J. *see* White, D.G., 109, 1128  
 Sunami, A., Fan, Z., Sawanobori, T. and Hiraoka, M. Use-dependent block of Na<sup>+</sup> currents by mexiletine at the single channel level in guinea-pig ventricular myocytes, 110, 183  
 Sunami, A. *see* Yamane, T.-i., 108, 812  
 Surprenant, A. *see* Evans, R.J., 110, 591  
 Sutak, M. *see* Hong, M., 108, 1137  
 Suthamnatpong, N., Hata, F., Kanada, A., Takeuchi, T. and Yagasaki, O. Mediators of nonadrenergic, noncholinergic inhibition in the proximal, middle and distal regions of rat colon, 108, 348  
 Suzuki, A. and Itoh, T. Effects of calyculin A on tension and myosin phosphorylation in skinned smooth muscle of the rabbit mesenteric artery, 109, 703  
 Suzuki, H. *see* Kurihara, T., 110, 61  
 Suzuki, H. *see* Suzuki, K., 109, 661  
 Suzuki, K., Ito, K.M., Minayoshi, Y., Suzuki, H., Asano, M. and Ito, K. Modification by charybdotoxin and apamin of spontaneous electrical and mechanical activity of the circular smooth muscle of the guinea-pig stomach, 109, 661  
 Suzuki, S. *see* Ito, S., 110, 1117  
 Svensson, S.P.S., Bailey, T.J., Pepperl, D.J., Grundström, N., Ala-Uotila, S., Scheinin, M., Karlsson, J.O.G. and Regan, J.W. Cloning and expression of a fish  $\alpha_2$ -adrenoceptor, 110, 54  
 Szabó, C., Mitchell, J.A., Thiernemann, C. and Vane, J.R. Nitric oxide-mediated hyporeactivity to noradrenaline precedes the induction of nitric oxide synthase in endotoxin shock, 108, 786  
 Szabó, C. *see* Thiernemann, C., 110, 177  
 Szallasi, A. *see* Parlani, M., 110, 989  
 Szekeres, L. *see* Vegh, A., 110, 18

## T

- Tacconi, S., Ratti, E., Marien, M.R., Gaviraghi, G. and Bowery, N.G. Inhibition of [<sup>3</sup>H]-(+)-MK 801 binding to rat brain sections by CPP and 7-chlorokynurenic acid: an autoradiographic analysis, 108, 577  
 Tacke, R. *see* Waelbroeck, M., 109, 360  
 Takagi, H. *see* Kawabata, A., 109, 73  
 Takahashi, S. *see* Akata, T., 109, 1247  
 Takai, M. *see* Karaki, H., 109, 486  
 Takaori, S. *see* Momiyama, T., 110, 713  
 Takayanagi, I. *see* Kurata, R., 110, 875  
 Takayanagi, I. *see* Shinkai, M., 108, 759  
 Takeda, H. *see* Kobari, M., 110, 1445  
 Takeda, K. *see* von der Weid, P.-Y., 108, 638  
 Takeda, Y. *see* Hattori, Y., 109, 1232  
 Takeda, Y. *see* Nakaya, H., 109, 157  
 Takeuchi, S. *see* Moritoki, H., 108, 1125  
 Takeuchi, T. *see* Suthamnatpong, N., 108, 348  
 Talamo, B.R. *see* McMillian, M.K., 108, 453  
 Tamargo, J. *see* Delgado, C., 108, 721  
 Tamargo, J. *see* Perez-Vizcaino, F., 110, 1165  
 Tamargo, J. *see* Valenzuela, C., 109, 873  
 Tanahashi, N. *see* Kobari, M., 110, 1445  
 Tanaka, H. *see* Agata, N., 108, 571  
 Tanaka, H. *see* Kakei, M., 109, 1226  
 Tanaka, S. *see* Shikada, K.-i., 109, 1091  
 Tanaka, Y. *see* Nakazawa, K., 109, 137  
 Tang, K.-W. *see* Boyle, S.J., 109, 913  
 Tang, K.-W. *see* Guard, S., 110, 385  
 Taniyama, K. *see* Kitazawa, T., 109, 94  
 Tasaka, K. *see* Tsujimoto, S., 109, 807  
 Tastenoy, M. *see* Waelbroeck, M., 109, 360  
 Tatebayashi, H. *see* Ogata, N., 109, 1239  
 Tattersall, J.E.H. Ion channel blockade by oximes and recovery of diaphragm muscle from soman poisoning *in vitro*, 108, 1006  
 Taube, C. *see* Schirmer, M., 109, 900  
 Tavares-Murta, B.M., Lefort, J., Cunha, F.Q., Ferreira, S.H. and Vargaftig, B.B. Interference of a neutrophil recruitment inhibitory factor upon the accumulation of inflammatory cells and airway hyperactivity in sensitized guinea-pigs after intranasal antigen challenge, 108, 538  
 Taylor, J.F. *see* Bowring, N.E., 109, 1133  
 Teixeira, M.M. and Hellewell, P.G. Suppression by intradermal administration of heparin of eosinophil accumulation but not oedema formation in inflammatory reactions in guinea-pig skin, 110, 1496  
 Teixeira, M.M., Williams, T.J. and Hellewell, P.G. E-type prostaglandins enhance local oedema formation and neutrophil accumulation but suppress eosinophil accumulation in guinea-pig skin, 110, 416  
 Teixeira, M.M., Williams, T.J. and Hellewell, P.G. Role of prostaglandins and nitric oxide in acute inflammatory reactions in guinea-pig skin, 110, 1515  
 Télémaque, S. *see* D'Orléans-Juste, P., 110, 687  
 TenBrink, R.E. *see* Im, W.B., 110, 677

- Teng, C.-M. *see* Ko, F.-N., 110, 882  
 Teng, C.-M. *see* Yu, S.-M., 108, 1055  
 Tepperman, B.L. and Soper, B.D. Interaction of nitric oxide and salivary gland epidermal growth factor in the modulation of rat gastric mucosal integrity, 110, 229  
 Terrar, D.A. *see* White, E., 110, 95  
 Thalody, G.P. *see* Wiener, H.L., 109, 394  
 Thiernemann, C., Wu, C.-C., Szabó, C., Perretti, M. and Vane, J.R. Role of tumour necrosis factor in the induction of nitric oxide synthase in a rat model of endotoxin shock, 110, 177  
 Thiernemann, C. *see* Cristol, J.-P., 108, 776  
 Thiernemann, C. *see* Cristol, J.P., 109, 188  
 Thiernemann, C. *see* McMurdo, L., 108, 557  
 Thiernemann, C. *see* McMurdo, L., 109, 530  
 Thiernemann, C. *see* Szabó, C., 108, 786  
 Thijssen, H.H.W. *see* Drieman, J.C., 108, 204  
 Thijssen, H.H.W. *see* Hermans, J.J.R., 110, 482  
 Thompson, C.S. *see* Jeremy, J.Y., 108, 1131  
 Thompson, H. *see* Qin, X.Y., 108, 44  
 Thompson, J.S. *see* Wanstall, J.C., 110, 1363  
 Thomson, R.J. *see* Ishida, K., 108, 700  
 Thor, K.B. *see* Yoshiyama, M., 110, 77  
 Thorn, L. *see* Bristow, L.J., 108, 1156  
 Tiran, B. *see* Griesbacher, T., 108, 405  
 Todo, N. *see* Momiyama, T., 109, 933  
 Todt, H., Zojer, N. and Raberger, G. Kinetics of rate-dependent slowing of intraventricular conduction by the class Ib antiarrhythmic agent tocainide *in vivo*, 110, 145  
 Togna, G. *see* Ciabattini, G., 109, 243  
 Tohse, N. *see* Nakaya, H., 109, 157  
 Tokuhara, T., Meulemans, A.L., De Ridder, W.J.E., Higashino, M., Kinoshita, H. and Schuurkes, J.A.J. Effect of adrenoceptor agonists on striated muscle strips of the canine oesophagus, 110, 297  
 Tokuyama, K., Yokoyama, T., Morikawa, A., Mochizuki, H., Kuroume, T. and Barnes, P.J. Attenuation of tachykinin-induced airflow obstruction and microvascular leakage in immature airways, 108, 23  
 Tomita, M. *see* Kobari, M., 110, 1445  
 Tomita, T. *see* Katayama, N., 109, 1097  
 Tomkinson, A., Karlsson, J.-A. and Raeburn, D. Comparison of the effects of selective inhibitors of phosphodiesterase types III and IV in airway smooth muscle with differing  $\beta$ -adrenoceptor subtypes, 108, 57  
 Tomlinson, D.R. *see* Stevens, E.J., 109, 980  
 Torregrosa, G. *see* Salom, J.B., 109, 826  
 Torrens, Y. *see* Beaujouan, J.-C., 108, 793  
 Tousignant, C., Chan, C.-C., Guevremont, D., Brideau, C., Hale, J.J., MacCoss, M. and Rodger, I.W. NK<sub>2</sub> receptors mediate plasma extravasation in guinea-pig lower airways, 108, 383  
 Towart, R. *see* Kendall, S., 110, 199  
 Traber, J. *see* Kappelle, A.C., 108, 780  
 Tramontana, M., Giuliani, S., Del Bianco, E., Lecci, A., Maggi, C.A., Evangelista, S. and Geppetti, P. Effects of capsaicin and 5-HT<sub>3</sub> antagonists on 5-hydroxytryptamine-evoked release of calcitonin gene-related peptide in the guinea-pig heart, 108, 431  
 Traynor-Kaplan, A.E. *see* Kachintorn, U., 109, 510  
 Trezise, D.J., Kennedy, I. and Humphrey, P.P.A. Characterization of purinoceptors mediating depolarization of rat isolated vagus nerve, 110, 1055  
 Tricklebank, M.D. *see* Bristow, L.J., 108, 1156  
 Trigg, C.R. *see* Adeagbo, A.S.O., 109, 495  
 Trigg, C.R. *see* Li, X.-F., 109, 1272  
 Tripathi, O., Schreibmayer, W. and Tritthart, H.A. Fendiline inhibits L-type calcium channels in guinea-pig ventricular myocytes: a whole-cell patch-clamp study, 108, 865  
 Trist, D. *see* Corsi, M., 108, 1164  
 Tritthart, H.A. *see* Tripathi, O., 108, 865  
 Tsai, S.K. *see* Chiu, T.H., 110, 903  
 Tschöpl, M., Miller, R.C., Pelton, J., Stoclet, J.-C. and Bucher, B. Vasoconstrictor effects of various neuropeptide Y analogues on the rat tail artery in the presence of phenylephrine, 110, 1098  
 Tsuchihashi, H. *see* Satoh, E., 108, 484  
 Tsujimoto, S., Okumura, Y., Kamei, C. and Tasaka, K. Effects of intracerebroventricular injection of histamine and related compounds on corticosterone release in rats, 109, 807  
 Tsuneki, H. *see* Kimura, I., 110, 639  
 Tsunoda, H., Miyauchi, T., Fujita, K., Kubo, T. and Goto, K. Mechanism of rat uterine smooth muscle contraction induced by endothelin-1, 110, 1437  
 Tuladhar, B.R. *see* Costall, B., 110, 1572  
 Tunstall, S. *see* Brownlie, R.P., 110, 1600  
 Turner, J.P. Anion transport blockers inhibit DL-2-amino-4-phosphonobutyrate responses induced by quisqualate in the rat cerebral cortex, 109, 449  
 Turner, N.C., Wood, L.J., Burns, F.M., Guerey, T. and Souness, J.E. The effect of cyclic AMP and cyclic GMP phosphodiesterase inhibitors on the superoxide burst of guinea-pig peritoneal macrophages, 108, 876  
 Tweedie, D., Boachie-Anash, G., Henderson, C.G. and Kane, K.A. Attenuation by phentolamine of hypoxia and levromakalim-induced abbreviation of the cardiac action potential, 110, 1222
- ## U
- Uchida, M.K. *see* Hishinuma, S., 109, 330  
 Uddman, R. *see* Cardell, L.O., 108, 448  
 Uematsu, T. *see* Matsuno, H., 110, 1278  
 Ueno, Y., Shigenobu, K. and Nishio, S. Effects of beraprost on the transmembrane potentials of guinea-pig ventricular muscles during normoxia and hypoxia-reoxygenation, 109, 1014  
 Uhl, G.R. *see* Kusama, T., 109, 200  
 Uhlén, S., Xia, Y., Chhajlani, V., Felder, C.C. and Wikberg, J.E.S. [<sup>3</sup>H]-MK 912 binding delineates two  $\alpha_2$ -adrenoceptor subtypes in rat CNS one of which is identical with the cloned pA2d  $\alpha_2$ -adrenoceptor, 108, 852  
 Ullman, A. *see* Lindén, A., 109, 845  
 Umeda, N. *see* Kawabata, A., 109, 73  
 Undem, B.J. *see* Hay, D.W.P., 110, 392  
 Undem, B.J. *see* Hay, D.W.P., 110, 955  
 Undem, B.J. *see* Hay, D.W.P., 110, 1175  
 Uneyama, H., Harata, N. and Akaike, N. Caffeine and related compounds block inhibitory amino acid-gated Cl<sup>-</sup> currents in freshly dissociated rat hippocampal neurones, 109, 459  
 Uneyama, H. *see* Akaike, N., 109, 1020  
 Urade, Y. *see* Karaki, H., 109, 486  
 Uyama, Y., Imaizumi, Y. and Watanabe, M. Cyclopiazonic acid, an inhibitor of Ca<sup>2+</sup>-ATPase in sarcoplasmic reticulum, increases excitability in ileal smooth muscle, 110, 565
- ## V
- Vaccari, A. *see* Del Zompo, M., 109, 411  
 Vajanaphanich, M. *see* Kachintorn, U., 109, 510  
 Valenzuela, C., Pérez, O., Casis, O., Duarte, J., Pérez-Vizcaino, F., Delpón, E. and Tamargo, J. Effects of lisinopril on electromechanical properties and membrane currents in guinea-pig cardiac preparations, 109, 873  
 Valeri, P. *see* Morrone, L.A., 109, 48  
 Valoti, M. *see* Sgaragli, G.P., 110, 369  
 Van Belle, H. *see* Wainwright, C.L., 109, 592  
 van Breemen, C. *see* Chen, Q., 109, 336  
 van Buren, T. *see* Kappelle, A.C., 108, 780  
 Van Der Vliet, H. *see* Garssen, J., 109, 53  
 Van Heuven-Nolsen, D. *see* De Kimpe, S.J., 109, 8  
 van Hooft, J.A. *see* Kooyman, A.R., 108, 287  
 Van Loveren, H. *see* Garssen, J., 109, 53  
 Van Maercke, Y.M. *see* Boeckxstaens, G.E., 109, 1079  
 Van Maercke, Y.M. *see* Boeckxstaens, G.E., 110, 1329  
 Van Maercke, Y.M. *see* De Man, J.G., 110, 559  
 Van Meel, J.C.A. *see* Wienen, W., 110, 245  
 Van Renterghem, C. and Frelin, C. 3,4 Dichlorobenzamil-sensitive, monovalent cation channel induced by palytoxin in cultured aortic myocytes, 109, 859  
 van Veldhuizen, M.J.A., Feenstra, M.G.P., Heinsbroek, R.P.W. and Boer, G.J. *In vivo* microdialysis of noradrenaline overflow: effects of  $\alpha$ -adrenoceptor agonists and antagonists measured by cumulative concentration-response curves, 109, 655  
 Van Zwieten, P.A. *see* Pfaffendorf, M., 108, 132  
 Vandekerckhove, A. *see* Keppens, S., 108, 663  
 Vane, J. *see* Salvemini, D., 108, 162  
 Vane, J.R. *see* Cristol, J.-P., 108, 776

- Vane, J.R. *see* Cristol, J.P., 109, 188  
Vane, J.R. *see* Lidbury, P.S., 110, 275  
Vane, J.R. *see* Macarthur, H., 108, 100  
Vane, J.R. *see* McMurdo, L., 108, 557  
Vane, J.R. *see* McMurdo, L., 109, 530  
Vane, J.R. *see* Mitchell, J.A., 109, 265  
Vane, J.R. *see* Szabó, C., 108, 786  
Vane, J.R. *see* Thiemermann, C., 110, 177  
Vane, J.R. *see* Warner, T.D., 110, 777  
Vane, J.R. *see* Warner, T.D., 110, 783  
Vanhoutte, P.M. *see* Gao, Y., 109, 887  
Vapaatalo, H. *see* Arvola, P., 108, 980  
Vapaatalo, H. *see* Moilanen, E., 109, 852  
Vardey, C.J. *see* Gurden, M.F., 109, 693  
Vardey, C.J. *see* Nials, A.T., 110, 1112  
Vardey, C.J. *see* Wheeldon, A., 108, 1051  
Vardey, C.J. *see* Whelan, C.J., 110, 613  
Vardi, Y. *see* Finberg, J.P.M., 108, 1038  
Vargaftig, B.B. *see* Arreto, C.D., 108, 412  
Vargaftig, B.B. *see* Tavares-Murta, B.M., 108, 538  
Vargaftig, B.B. *see* Zuany-Amorim, C., 110, 917  
Vargas, R., Wroblewska, B., Rego, A., Hatch, J. and Ramwell, P.W. Oestradiol inhibits smooth muscle cell proliferation of pig coronary artery, 109, 612  
Varoni, M.V. *see* Madeddu, P., 108, 651  
Varro, A., Hester, S. and Papp, J.G. Caffeine-induced decreases in the inward rectifier potassium and the inward calcium currents in rat ventricular myocytes, 109, 895  
Vaughan, P.F.T. *see* Hall, A.S., 110, 681  
Vedat, A. *see* Bristow, D.R., 110, 269  
Vegh, A., Papp, J.G., Szekeres, L. and Parratt, J.R. Prevention by an inhibitor of the L-arginine-nitric oxide pathway of the antiarrhythmic effects of bradykinin in anaesthetized dogs, 110, 18  
Venkova, K. and Krier, J. Stimulation of lumbar sympathetic nerves evokes contractions of cat colon circular muscle mediated by ATP and noradrenaline, 110, 1260  
Verhoef, J.C. *see* Schipper, N.G.M., 110, 1335  
Vials, A. and Burnstock, G. A<sub>2</sub>-purinoceptor-mediated relaxation in the guinea-pig coronary vasculature: a role for nitric oxide, 109, 424  
Vials, A.J. and Burnstock, G. Effects of pyrimidines on the guinea-pig coronary vasculature, 110, 1091  
Vickery-Clark, L.M. *see* Douglas, S.A., 108, 418  
Vijverberg, H.P.M. *see* Kooyman, A.R., 108, 287  
Vivas, N. *see* Orallo, F., 110, 943  
von der Weid, P.-Y., Serebryakov, V.N., Orallo, F., Bergmann, C., Snetkov, V.A. and Takeda, K. Effects of ATP on cultured smooth muscle cells from rat aorta, 108, 638  
von Kügelgen, I., Späth, L. and Starke, K. Ionotropic glutamate receptor types leading to adenosine-mediated inhibition of electrically evoked [<sup>3</sup>H]-noradrenaline release in rabbit brain cortex slices, 110, 1544  
von Kügelgen, I. *see* Bültmann, R., 108, 1062  
von Kügelgen, I. *see* Driessen, B., 108, 443  
von Kügelgen, I. *see* Kurz, K., 110, 1465  
von Mandach, U., Gubler, H.P., Engel, G., Huch, R. and Huch, A. Lymphocyte B<sub>2</sub>-adrenoceptors and adenosine 3':5'-cyclic monophosphate during and after normal pregnancy, 108, 356  
Von Voigtlander, P.F. *see* Im, W.B., 110, 677  
Vonderscher, J. *see* Drewe, J., 108, 298  
Vuorinen, P. *see* Moilanen, E., 108, 852
- W**
- Wachter, Ch. *see* Holzer, P., 110, 404  
Waelbroeck, M., Camus, J., Tastenoy, M., Lambrecht, G., Mutschler, E., Kropfgans, M., Sperlich, J., Wiesenberger, F., Tacke, R. and Christophe, J. Thermodynamics of antagonist binding to rat muscarinic M<sub>2</sub> receptors: antimuscarinics of the pridinol, sila-pridinol, diphenidol and sila-diphenidol type, 109, 360  
Wainwright, C.L., Parratt, J.R. and Van Belle, H. The antiarrhythmic effects of the nucleoside transporter inhibitor, R75231, in anaesthetized pigs, 109, 592  
Walder, C. *see* Cristol, J.P., 109, 188  
Waldron, G.J. *see* O'Shaughnessy, C.T., 108, 191  
Walker, M.J.A. *see* Pugsley, M.K., 110, 1579  
Wallace, P. *see* Moore, P.K., 108, 296  
Wallace, P. *see* Moore, P.K., 110, 219  
Walpole, C.S.J. *see* Maggi, C.A., 108, 801  
Walsh, D.A., Wharton, J., Blake, D.R. and Polak, J.M. Localization and characterization of neuropeptide Y binding sites in porcine and human colon, 108, 304  
Walters, W.A.W. *see* Read, M.A., 110, 454  
Wang, Y.-X., Poon, C.I., Poon, K.S. and Pang, C.C.Y. Inhibitory actions of diphenyleneiodonium on endothelium-dependent vasodilatations *in vitro* and *in vivo*, 110, 1232  
Wang, Y.-X., Zhou, T. and Pang, C.C.Y. A comparison of the inhibitory effects of sodium nitroprusside, pinacidil and nifedipine on pressor response to N<sup>G</sup>-nitro-L-arginine, 108, 398  
Wang, Y.-X. and Pang, C.C.Y. Halothane inhibits the pressor effect of diphenyleneiodonium, 109, 1186  
Wang, Y.-X. *see* Brooks, D.P., 109, 581  
Wang, Y.-Y. *see* Yang, C.M., 110, 983  
Wang, Y.-Y. *see* Yang, C.M., 110, 1239  
Wang, Z.-Y. and Håkanson, R. Effects of ruthenium red and capsazepine on C-fibres in the rabbit iris, 110, 1073  
Wanstall, J.C., Thompson, J.S. and Morice, A.H. Effects of atrial natriuretic peptide and nitroprusside on isolated pulmonary resistance and conduit arteries from rats with pulmonary hypertension, 110, 1363  
Wardle, K.A. and Sanger, G.J. The guinea-pig distal colon—a sensitive preparation for the investigation of 5-HT<sub>4</sub> receptor-mediated contractions, 110, 1593  
Warner, T.D., Allcock, G.H., Corder, R. and Vane, J.R. Use of the endothelin antagonists BQ-123 and PD 142893 to reveal three endothelin receptors mediating smooth muscle contraction and the release of EDRF, 110, 777  
Warner, T.D., Allcock, G.H., Mickley, E.J. and Vane, J.R. Characterization of endothelin receptors mediating the effects of the endothelin/sarafotoxin peptides on autonomic neurotransmission in the rat vas deferens and guinea-pig ileum, 110, 783  
Warner, T.D. *see* Cristol, J.P., 108, 776  
Warner, T.D. *see* D'Orléans-Juste, P., 110, 687  
Warner, T.D. *see* Mitchell, J.A., 109, 265  
Warren, J.B., Loi, R.K. and Coughlan, M.L. Involvement of nitric oxide synthase in the delayed vasodilator response to ultraviolet light irradiation of rat skin *in vivo*, 109, 802  
Warren, J.B. *see* Wilson, A.J., 110, 633  
Waschulewski, I.H., Hall, D.V., Kern, H.F. and Edwardson, J.M. Effects of the immunosuppressants cyclosporin A and FK 506 on exocytosis in the rat exocrine pancreas *in vitro*, 108, 892  
Watanabe, A., Ishida, Y., Honda, H., Kobayashi, M. and Ohizumi, Y. Ca<sup>2+</sup>-dependent aggregation of rabbit platelets induced by maitotoxin, a potent marine toxin, isolated from a dinoflagellate, 109, 29  
Watanabe, C., Hirano, K. and Kanaide, H. Role of extracellular and intracellular sources of Ca<sup>2+</sup> in sarafotoxin S6b-induced contraction of strips of the rat aorta, 108, 30  
Watanabe, M. *see* Uyama, Y., 110, 565  
Watanabe, Y. *see* Sakuta, H., 109, 866  
Waterfall, J.F. *see* MacKenzie, I., 110, 531  
Waterman, A.E. *see* Kyles, A.E., 108, 907  
Watkins, J.C. *see* Pook, P., 108, 179  
Watling, K.J. *see* Fan, T.-P.D., 110, 43  
Watling, K.J. *see* Guard, S., 110, 385  
Watson, N., MacLagan, J. and Barnes, P.J. Endogenous tachykinins facilitate transmission through parasympathetic ganglia in guinea-pig trachea, 109, 751  
Watson, S.P. *see* Barr, A.J., 108, 223  
Watts, A.E. and Jefferys, J.G.R. Effects of carbamazepine and baclofen on 4-aminopyridine-induced epileptic activity in rat hippocampal slices, 108, 819  
Watts, I.S. *see* White, D.G., 108, 763  
Watts, I.S. *see* White, D.G., 109, 1128  
Way, S.A. *see* Douglas, A.J., 109, 251  
Wayne, M. *see* McAuliffe, S.J.G., 108, 901  
Wayne, M.G. *see* Brownlie, R.P., 110, 1600  
Welsh, N.J., Shankley, N.P. and Black, J.W. Comparative study of the control of basal acid output from rodent isolated stomachs, 109, 941  
Weng, Y.-I. *see* Huang, H.-C., 110, 1508  
West, K.E. *see* Andrews, N., 109, 171  
Westerling, D. *see* Igawa, Y., 110, 257

- Westfall, D.P. *see* Khoyi, M.A., 110, 1353  
 Westfall, D.P. *see* Zhang, L., 109, 905  
 Weston, A.H. *see* Edwards, G., 110, 1037  
 Weston, A.H. *see* Edwards, G., 110, 1280  
 Weston, A.H. *see* Greenwood, I.A., 109, 925  
 Weston, A.H. *see* Ibbotson, T., 108, 991  
 Weston, A.H. *see* Ibbotson, T., 110, 1556  
 Westwick, J. *see* Rogerson, M.E., 108, 838  
 Wharton, J. *see* Rutherford, R.A.D., 109, 544  
 Wharton, J. *see* Walsh, D.A., 108, 304  
 Wheeldon, A. *see* Gurden, M.F., 109, 693  
 Wheeldon, A. and Vardey, C.J. Characterization of the inhibitory prostanoid receptors on human neutrophils, 108, 1051  
 Whelan, C.J., Johnson, M. and Vardey, C.J. Comparison of the anti-inflammatory properties of formoterol, salbutamol and salmeterol in guinea-pig skin and lung, 110, 613  
 White, D.G., Drew, G.M., Gurden, J.M., Penny, D.M., Roach, A.G. and Watts, I.S. The effect of *N*<sup>G</sup>-nitro-L-arginine methyl ester upon basal blood flow and endothelium-dependent vasodilatation in the dog hindlimb, 108, 763  
 White, D.G., Mundin, J.W., Sumner, M.J. and Watts, I.S. The effect of endothelins on nitric oxide and prostacyclin production from human umbilical vein, porcine aorta and bovine carotid artery endothelial cells in culture, 109, 1128  
 White, E., Connors, S.P., Gill, E.W. and Terrar, D.A. The positive inotropic effect of compound II, a novel analogue of sotalol, on guinea-pig papillary muscles and single ventricular myocytes, 110, 95  
 White, T.E., Dickenson, J.M. and Hill, S.J. Histamine H<sub>1</sub>-receptor-mediated inositol phospholipid hydrolysis in DDT<sub>1</sub>MF-2 cells: agonist and antagonist properties, 108, 196  
 Whitebread, S. *see* Criscione, L., 110, 761  
 Whiting, P. *see* Home, A.L., 108, 711  
 Whiting, P. *see* Kusama, T., 109, 200  
 Whittle, B.J.R. Neuronal and endothelium-derived mediators in the modulation of the gastric microcirculation: integrity in the balance, 110, 3  
 Whittle, B.J.R. *see* Boughton-Smith, N.K., 110, 896  
 Whittle, B.J.R. *see* Boughton-Smith, N.K., 110, 1189  
 Whittle, B.J.R. *see* Esplugues, J.V., 108, 9  
 Whittle, B.J.R. *see* Lopez-Belmonte, J., 108, 73  
 Whittle, B.J.R. *see* Lopez-Belmonte, J., 110, 496  
 Widdop, R.E., Gardiner, S.M., Kemp, P.A. and Bennett, T. Comparison of the regional haemodynamic effects of the AT<sub>1</sub>-receptor antagonists, losartan and EXP 3174, in water-deprived Brattleboro rats, 108, 684  
 Widdowson, P.S. *see* Renouard, A., 109, 625  
 Wiegant, V.M. *see* Schipper, N.G.M., 110, 1335  
 Wiemer, G. *see* Baumgarten, C.R., 108, 293  
 Wienen, W., Haeu, N., Van Meel, J.C.A., Narr, B., Ries, U. and Entzeroth, M. Pharmacological characterization of the novel nonpeptide angiotensin II receptor antagonist, BIBR 277, 110, 245  
 Wiener, H.L., Thalody, G.P. and Maayani, S. Interactions between responses mediated by activation of adenosine A<sub>2</sub> receptors and α<sub>1</sub>-adrenoceptors in the rabbit isolated aorta, 109, 394  
 Wiesenberger, F. *see* Waelbroeck, M., 109, 360  
 Wijetunge, S. *see* Hughes, A.D., 109, 120  
 Wikberg, J.E.S. *see* Uhlén, S., 108, 852  
 Wiklund, C.U., Olgart, C., Wiklund, N.P. and Gustafsson, L.E. Modulation of cholinergic and substance P-like neurotransmission by nitric oxide in the guinea-pig ileum, 110, 833  
 Wiklund, N.P. *see* Wiklund, C.U., 110, 833  
 Wilkins, M.R. *see* Kirk, J.E., 110, 350  
 Wilkinson, G.F., Purkiss, J.R. and Boarder, M.R. The regulation of aortic endothelial cells by purines and pyrimidines involves co-existing P<sub>2</sub>-purinoceptors and nucleotide receptors linked to phospholipase C, 108, 689  
 Wilkinson, G.F. *see* Purkiss, J.R., 108, 1031  
 Willars, G.B. *see* Stevens, E.J., 109, 980  
 Williams, A.J. *see* McGarry, S.J., 108, 1043  
 Williams, A.R. *see* Rupniak, N.M.J., 110, 1607  
 Williams, T.J. *see* Collins, P.D., 109, 195  
 Williams, T.J. *see* Pons, F., 109, 234  
 Williams, T.J. *see* Teixeira, M.M., 110, 416  
 Williams, T.J. *see* Teixeira, M.M., 110, 1515  
 Williams, T.J. *see* Yarwood, H., 108, 959  
 Williamson, D.J. *see* Shepherd, S.L., 108, 11  
 Wilson, A.J. and Warren, J.B. Adenylate cyclase-mediated vascular responses of rabbit aorta, mesenteric artery and skin microcirculation, 110, 633  
 Wilson, C. *see* Growcott, J.W., 109, 1212  
 Wilson, C. *see* Growcott, J.W., 110, 1375  
 Wilson, V.G. *see* David, C., 110, 1522  
 Wilson, V.G. *see* Hussain, J.F., 109, 831  
 Wong, E.H.F. *see* Eglen, R.M., 108, 376  
 Wong, E.H.F. *see* Eglen, R.M., 110, 119  
 Wong, T.M. *see* Dong, H., 109, 113  
 Wood, B.E. *see* Leff, P., 108, 490  
 Wood, J. *see* Criscione, L., 110, 761  
 Wood, L.J. *see* Turner, N.C., 108, 876  
 Woodman, O.L. *see* Sobey, C.G., 108, 342  
 Woodruff, G.N. *see* Boyle, S.J., 109, 913  
 Woodruff, G.N. *see* Guard, S., 110, 385  
 Woollorton, J.R.A. and Mathie, A. Block of potassium currents in rat isolated sympathetic neurones by tricyclic antidepressants and structurally related compounds, 110, 1126  
 Worton, S.P. *see* Butler, A., 109, 126  
 Wright, D.M. *see* Douglas, A.J., 109, 251  
 Wroblewska, B. *see* Vargas, R., 109, 612  
 Wu, B. *see* Sato, T., 108, 549  
 Wu, C.-C. *see* Thiernemann, C., 110, 177  
 Wu, P.-Y. *see* Andrews, N., 109, 171  
 Wu, Y.-C. *see* Ko, F.-N., 110, 882  
 Wuorela, H. *see* Arvola, P., 108, 980  
 Wynne, D.G., Poole-Wilson, P.A. and Harding, S.E. Incomplete reversal of β-adrenoceptor desensitization in human and guinea-pig cardiomyocytes by cyclic nucleotide phosphodiesterase inhibitors, 109, 1071  
 Wyse, K.R., Ye, V. and Campbell, T.J. Effects of hyperkalaemia on the depression of maximum rate of depolarization by class I antiarrhythmic agents in guinea-pig myocardium, 108, 255

## X

- Xia, Y. *see* Uhlén, S., 108, 852  
 Xu, Y., Sandrasegarane, L. and Gopalakrishnan, V. Protein kinase C inhibitors enhance endothelin-1 and attenuate vasopressin and angiotensin II evoked [Ca<sup>2+</sup>]<sub>i</sub> elevation in the rat cardiomyocyte, 108, 6

## Y

- Yadid, G., Pacak, K., Golomb, E., Harvey-White, J.D., Lieberman, D.M., Kopin, I.J. and Goldstein, D.S. Glycine stimulates striatal dopamine release in conscious rats, 110, 50  
 Yagasaki, O. *see* Suthamnatpong, N., 108, 348  
 Yakushiji, T., Shirasaki, T., Munakata, M., Hirata, A. and Akaike, N. Differential properties of type I and type II benzodiazepine receptors in mammalian CNS neurones, 109, 819  
 Yamaguchi, M. *see* Moritoki, H., 108, 1125  
 Yamaguchi, N. *see* Chahine, R., 108, 318  
 Yamamoto, H. *see* Miyake, A., 110, 447  
 Yamanaka, S., Iwao, H., Yukimura, T., Kim, S. and Miura, K. Effect of the platelet-activating factor antagonist, TCV-309, and the cyclooxygenase inhibitor, ibuprofen, on the haemodynamic changes in canine experimental endotoxemic shock, 110, 1501  
 Yamane, T.-i., Sunami, A., Sawanobori, T. and Hiraoka, M. Use-dependent block of Ca<sup>2+</sup> current by moricizine in guinea-pig ventricular myocytes: a possible ionic mechanism of action potential shortening, 108, 812  
 Yamashita, Y. *see* Akaike, N., 109, 1020  
 Yamawaki, I. *see* Geppetti, P., 108, 646  
 Yanagisawa, M. *see* Guo, J.-Z., 110, 1142  
 Yanagisawa, M. *see* Kurihara, T., 110, 61  
 Yang, C.M., Chou, S.-P., Wang, Y.-Y., Hsieh, J.-T. and Ong, R. Muscarinic regulation of cytosolic free calcium in canine tracheal smooth muscle cells: Ca<sup>2+</sup> requirement for phospholipase C activation, 110, 1239  
 Yang, C.M., Yo, Y.-L. and Wang, Y.-Y. Intracellular calcium in canine cultured tracheal smooth muscle cells is regulated by M<sub>3</sub> muscarinic receptors, 110, 983  
 Yang, S.-H. *see* Fu, W.-M., 108, 236

- Yano, M. *see* D'Orléans-Juste, P., 110, 687  
 Yano, M. *see* Filep, J.G., 109, 880  
 Yarwood, H., Nourshargh, S., Brain, S. and Williams, T.J. Effect of dexamethasone on neutrophil accumulation and oedema formation in rabbit skin: an investigation of site of action, 108, 959  
 Yates, M.S. *see* Knight, R.J., 109, 271  
 Yates, N.A. and McDougall, J.G. Effects of direct renal arterial infusion of bufalin and ouabain in conscious sheep, 108, 627  
 Yazawa, K. and Abiko, Y. Modulation by histamine of the delayed outward potassium current in guinea-pig ventricular myocytes, 109, 142  
 Ye, V. *see* Wyse, K.R., 108, 255  
 Yeh, M.H. *see* Chiu, T.H., 110, 903  
 Yo, Y.-L. *see* Yang, C.M., 110, 983  
 Yocca, F.D. *see* Nowak, H.P., 109, 1206  
 Yokoyama, T. *see* Tokuyama, K., 108, 23  
 Yoshioka, K. *see* Guo, J.-Z., 110, 1142  
 Yoshioka, K. *see* Kurihara, T., 110, 61  
 Yoshiyama, M., Roppolo, J.R., Thor, K.B. and de Groat, W.C. Effects of LY274614, a competitive NMDA receptor antagonist, on the micturition reflex in the urethane-anaesthetized rat, 110, 77  
 Young, J.M. *see* Bristow, D.R., 110, 269  
 Yu, S.-M., Kang, Y.-F., Chen, C.-C. and Teng, C.-M. Effects of dicentrine on haemodynamic, plasma lipid, lipoprotein level and vascular reactivity in hyperlipidaemic rats, 108, 1055  
 Yu, S.-M. *see* Ko, F.-N., 110, 882  
 Yukimura, T. *see* Yamanaka, S., 110, 1501
- Z**
- Zaagsma, J. *see* de Boer, R.E.P., 110, 442  
 Zagorodnyuk, V., Santicoli, P. and Maggi, C.A. Tachykinin NK<sub>1</sub> but not NK<sub>2</sub> receptors mediate non-cholinergic excitatory junction potentials in the circular muscle of guinea-pig colon, 110, 795  
 Zamani, M.R. *see* Bristow, D.R., 109, 353  
 Zangrossi Jr, H. *see* Andrews, N., 109, 171  
 Zar, M.A. *see* Pickard, R.S., 108, 497  
 Zembowicz, A., Hatchett, R.J., Jakubowski, A.M. and Gryglewski, R.J. Involvement of nitric oxide in the endothelium-dependent relaxation induced by hydrogen peroxide in the rabbit aorta, 110, 151  
 Zhang, A., Cheng, T.P.-O., Altura, B.T. and Altura, B.M. Mg<sup>2+</sup> and caffeine-induced intracellular Ca<sup>2+</sup> release in human vascular endothelial cells, 109, 291  
 Zhang, B.-L. and Sassard, J. Eicosanoid-dependence of responses of pre- but not postglomerular vessels to noradrenaline in rat isolated kidneys, 110, 235  
 Zhang, H. *see* Beech, D.J., 110, 573  
 Zhang, H. *see* Beech, D.J., 110, 583  
 Zhang, J. *see* Bricca, G., 110, 1537  
 Zhang, L., Bradley, M.E., Khoyi, M., Westfall, D.P. and Buxton, I.L.O. Inositol 1,4,5-trisphosphate and inositol 1,3,4,5-tetrakisphosphate binding sites in smooth muscle, 109, 905  
 Zhang, L. and Buxton, I.L.O. Protein kinase regulation of muscarinic receptor signalling in colonic smooth muscle, 108, 613  
 Zhang, L. *see* Khoyi, M.A., 110, 1353  
 Zhou, T. *see* Wang, Y.-X., 108, 398  
 Ziegler, A. *see* Hempelmann, R.G., 110, 1321  
 Ziemniak, J. *see* Karlsson, J., 110, 1009  
 Ziganshin, A.U., Hoyle, C.H.V., Bo, X., Lambrecht, G., Mutschler, E., Bäumert, H.G. and Burnstock, G. PPADS selectively antagonizes P<sub>2X</sub>-purinoceptor-mediated responses in the rabbit urinary bladder, 110, 1491  
 Zojer, N. *see* Todt, H., 110, 145  
 Zong, X. *see* Parsons, C.G., 109, 213

## SUBJECT INDEX

## A

- A23187**, Activation of ion channels by lysylbradykinin in the HCA-7 colony 29 human adenocarcinoma cell line, **108**, 479
- Inhibitory actions of diphenyleiiodonium on endothelium-dependent vasodilatations *in vitro* and *in vivo*, **110**, 1232
  - Kinin-induced chloride permeability changes in colony 29 epithelia estimated from  $^{125}\text{I}^-$  efflux and MEQ fluorescence, **108**, 469
- Abdominal constrictions**, Differential sensitivity of antinociceptive assays to the bradykinin antagonist Hoe 140, **108**, 209
- Absorption enhancer**, Nasal administration of an ACTH(4-9) peptide analogue with dimethyl- $\beta$ -cyclodextrin as absorption enhancer pharmacokinetics and dynamics, **110**, 1335
- Acenocoumarol (4'-nitrowarfarin)**, Human liver microsomal metabolism of the enantiomers of warfarin and acenocoumarol: P450 isozyme diversity determines the differences in their pharmacokinetics, **110**, 482
- Acetylcholine**, Acetylcholine-induced endothelium-independent relaxations in monkey isolated superior and inferior caval veins, **109**, 992
- Acetylcholine-induced relaxation in bovine isolated mesenteric arteries is suppressed by polymorphonuclear leukocytes, **109**, 8
  - Allopurinol and amlodipine improve coronary vasodilatation after myocardial ischaemia and reperfusion in anaesthetized dogs, **108**, 342
  - Antiarrhythmic agents act differently on the activation phase of the ACh-response in guinea-pig atrial myocytes, **108**, 111
  - Attenuation of contractions to acetylcholine in canine bronchi by an endogenous nitric oxide-like substance, **109**, 887
  - Bradykinin-induced airflow obstruction and airway plasma exudation: effects of drugs that inhibit acetylcholine, thromboxane  $\text{A}_2$  or leukotrienes, **110**, 657
  - Cerebral blood flow and cerebrovascular reactivity after inhibition of nitric oxide synthesis in conscious goats, **110**, 428
  - Degradation of acetylcholine in human airways: role of butyrylcholinesterase, **108**, 914
  - Differential inhibition by  $\text{N}^G$ -monomethyl-L-arginine of vasodilator effects of acetylcholine and methacholine in human forearm vasculature, **110**, 736
  - The effect of  $\text{N}^G$ -nitro-L-arginine methyl ester upon basal blood flow and endothelium-dependent vasodilatation in the dog hindlimb, **108**, 763
  - Heterogeneity of muscarinic receptors in lamb isolated coronary resistance arteries, **109**, 998
  - Inhibitory actions of diphenyleiiodonium on endothelium-dependent vasodilatations *in vitro* and *in vivo*, **110**, 1232
  - Ion channel blockade by oximes and recovery of diaphragm muscle from soman poisoning *in vitro*, **108**, 1006
  - Modulation of acetylcholine-induced contractions of the rat anococcygeus muscle by activation of nitrergic nerves, **110**, 1479
  - Pharmacological characterization of muscarinic receptor-activated cation channels in guinea-pig ileum, **109**, 793
  - Role of the endothelium in the response to cholinergic stimulation of rabbit ear and femoral arteries during cooling, **109**, 61
  - Selective inhibition of basal but not agonist-stimulated activity of nitric oxide in rat aorta by  $\text{N}^G$ -monomethyl-L-arginine, **110**, 1003
  - $\alpha$ -Sialyl cholesterol reverses AF64A-induced deficit in passive avoidance response and depletion of hippocampal acetylcholine in mice, **108**, 387
- Acetylcholine receptors, muscarinic**, Characterization of the effects of lithium on phosphatidylinositol (PI) cycle activity in human muscarinic m1 receptor-transfected CHO cells, **110**, 809
- Differential inhibition by  $\text{N}^G$ -monomethyl-L-arginine of vasodilator effects of acetylcholine and methacholine in human forearm vasculature, **110**, 736
  - Evidence that  $\text{M}_1$  muscarinic receptors enhance noradrenaline release in mouse atria by activating protein kinase C, **110**, 910
- Acetylcholine receptors, nicotinic**, Enhancement by calcitonin gene-related peptide of nicotinic receptor-operated noncontractile  $\text{Ca}^{2+}$  mobilization at the mouse neuromuscular junction, **110**, 639
- Necessity of divalent cations for recovery from carbachol-induced nicotinic acetylcholine receptor inactivation at snake twitch fibre endplates, **110**, 889
- Acetylcholine release**, Adenosine receptor-mediated modulation of acetylcholine release from rat striatal synaptosomes, **110**, 949
- A facilitatory effect of anti-angiotensin drugs on vagal bradycardia in the pithed rat and guinea-pig, **110**, 289
  - Ionomycin-induced acetylcholine release and its inhibition by adenosine at frog motor nerve endings, **110**, 828
  - The  $\text{Leu}^{13}$ -motilin (KW-5139)-evoked release of acetylcholine from enteric neurones in the rabbit duodenum, **109**, 94
  - Potentiation of miniature endplate potential frequency by ATP in *Xenopus* tadpoles, **108**, 236
  - The role of nitric oxide in cholinergic neurotransmission in rat trachea, **110**, 816
  - Structural features important for the biological activity of the potassium channel blocking dendrotoxins, **110**, 790
  - Tachykinin receptors of the  $\text{NK}_2$  type involved in the acetylcholine release by nicotine in guinea-pig bladder, **108**, 759
- Acetylcholine responses**, Activation of protein kinase C potentiates postsynaptic acetylcholine response at developing neuromuscular synapses, **110**, 707
- Acetylcholinesterase**, Degradation of acetylcholine in human airways: role of butyrylcholinesterase, **108**, 914
- N-Acetylcysteine**, Conversion of glyceryl trinitrate to nitric oxide in tolerant and non-tolerant smooth muscle and endothelial cells, **108**, 162
- ACPD**, Excitatory amino acid receptor-stimulated phosphoinositide turnover in primary cerebrocortical cultures, **109**, 379
- Pharmacological characterization of the metabotropic glutamate receptor inhibiting D- $[\text{^3H}]$ -aspartate output in rat striatum, **110**, 1407
- ACTH**, Effects of intracerebroventricular injection of histamine and related compounds on corticosterone release in rats, **109**, 807
- Role of neuronal and vascular  $\text{Ca}^{2+}$ -channels in the ACTH-induced reversal of haemorrhagic shock, **109**, 645
- ACTH(4-9) analogue (Org2766)**, Nasal administration of an ACTH(4-9) peptide analogue with dimethyl- $\beta$ -cyclodextrin as absorption enhancer pharmacokinetics and dynamics, **110**, 1335
- Action potential duration**, Differential Class III and glibenclamide effects on action potential duration in guinea-pig papillary muscle during normoxia and hypoxia/ischaemia, **110**, 531
- Use-dependent block of  $\text{Ca}^{2+}$  current by moricizine in guinea-pig ventricular myocytes: a possible ionic mechanism of action potential shortening, **108**, 812
- Action potentials**, Effects of lisinopril on electromechanical properties and membrane currents in guinea-pig cardiac preparations, **109**, 873
- Acute inflammation**, Anti-inflammatory actions of an N-terminal peptide from human lipocortin 1, **108**, 573
- Adenine nucleotides**, Effects of analogues of adenine nucleotides on increases in intracellular calcium mediated by  $\text{P}_{2\text{U}}$ -purinoceptors on human blood platelets, **108**, 728
- Prejunctional modulation of noradrenaline release in mouse and rat vas deferens: contribution of  $\text{P}_1$ - and  $\text{P}_2$ -purinoceptors, **110**, 1465
- Adenosine**,  $\text{A}_2$ -purinoceptor-mediated relaxation in the guinea-pig coronary vasculature: a role for nitric oxide, **109**, 424
- Action of purine and pyrimidine nucleotides on the rat superior cervical ganglion, **110**, 1297
  - Adenosine  $\text{A}_1$ -receptor stimulated increases in intracellular calcium in the smooth muscle cell line, DDT $_1$ MF-2, **108**, 85
  - The antiarrhythmic effects of the nucleoside transporter inhibitor, R75231, in anaesthetized pigs, **109**, 592
  - Bicuculline-resistant paired-pulse inhibition in the rat hippocampal slice, **109**, 1164
  - Characterization of the adenosine receptors of the rat superior cervical ganglion, **110**, 854
  - Characterization and ontogeny of  $\text{P}_1$ -purinoceptors on rat vas deferens, **108**, 754
  - The effect of  $\text{N}^G$ -nitro-L-arginine methyl ester upon basal blood flow and endothelium-dependent vasodilatation in the dog hindlimb, **108**,

- 763
- Inotropic glutamate receptor types leading to adenosine-mediated inhibition of electrically evoked [<sup>3</sup>H]-noradrenaline release in rabbit brain cortex slices, 110, 1544
  - Interactions between responses mediated by activation of adenosine A<sub>2</sub> receptors and α<sub>1</sub>-adrenoceptors in the rabbit isolated aorta, 109, 394
  - Intracellular cross-talk between receptors coupled to phospholipase C via pertussis toxin-sensitive and insensitive G-proteins in DDT<sub>1</sub>MF-2 cells, 109, 719
  - Ionomycin-induced acetylcholine release and its inhibition by adenosine at frog motor nerve endings, 110, 828
  - On the high affinity binding site for [<sup>3</sup>H]-1,3-dipropyl-8-cyclopentylxanthine in frog brain membranes, 109, 518
  - Vascular actions of purines in the foetal circulation of the human placenta, 110, 454
- Adenosine receptors**, Adenosine receptor-mediated modulation of acetylcholine release from rat striatal synaptosomes, 110, 949
- Effect of an intracellular calcium chelator on the regulation of electrically evoked [<sup>3</sup>H]-noradrenaline release from rat hippocampal slices, 108, 126
  - Functional characterization of three adenosine receptor types, 109, 693
  - Mediation of the neuroprotective action of *R*-phenylisopropyladenosine through a centrally located adenosine A<sub>1</sub> receptor, 110, 470
  - On the high affinity binding site for [<sup>3</sup>H]-1,3-dipropyl-8-cyclopentylxanthine in frog brain membranes, 109, 518
- Adenosine receptor agonists**, Adenosine A<sub>1</sub>-receptor stimulated increases in intracellular calcium in the smooth muscle cell line, DDT<sub>1</sub>MF-2, 108, 85
- Adenosine receptor-mediated modulation of acetylcholine release from rat striatal synaptosomes, 110, 949
  - Characterization of the adenosine receptor mediating contraction in rat colonic muscularis mucosae, 110, 1255
  - Contraction of the rat isolated spleen mediated by adenosine A<sub>1</sub> receptor activation, 109, 1059
- Adenosine receptor antagonists**, Effect of tienoxolol, a new diuretic β-blocking agent, on urinary prostaglandin excretion in the rat, 109, 278
- Adenosine A<sub>1</sub> receptors**, Adenosine A<sub>1</sub>-receptor stimulated increases in intracellular calcium in the smooth muscle cell line, DDT<sub>1</sub>MF-2, 108, 85
- Characterization of the adenosine receptor mediating contraction in rat colonic muscularis mucosae, 110, 1255
  - Contraction of the rat isolated spleen mediated by adenosine A<sub>1</sub> receptor activation, 109, 1059
  - Functional characterization of three adenosine receptor types, 109, 693
  - Inotropic glutamate receptor types leading to adenosine-mediated inhibition of electrically evoked [<sup>3</sup>H]-noradrenaline release in rabbit brain cortex slices, 110, 1544
  - Intracellular cross-talk between receptors coupled to phospholipase C via pertussis toxin-sensitive and insensitive G-proteins in DDT<sub>1</sub>MF-2 cells, 109, 719
- Adenosine A<sub>1</sub> receptor antagonists**, The diuretic action of 8-cyclopentyl-1,3-dipropylxanthine, a selective A<sub>1</sub> adenosine receptor antagonist, 109, 271
- Adenosine A<sub>2</sub> receptors**, A<sub>2</sub>-purinoceptor-mediated relaxation in the guinea-pig coronary vasculature: a role for nitric oxide, 109, 424
- Adenosine receptor-induced second messenger production in adult guinea-pig cerebellum, 110, 1085
  - Characteristics of the binding of [<sup>3</sup>H]-GR32191 to the thromboxane (TP-) receptor of human platelets, 110, 539
  - Functional characterization of three adenosine receptor types, 109, 693
  - Interactions between responses mediated by activation of adenosine A<sub>2</sub> receptors and α<sub>1</sub>-adrenoceptors in the rabbit isolated aorta, 109, 394
- Adenosine A<sub>2</sub> receptor blocking drugs**, Characteristics of the binding of [<sup>3</sup>H]-GR32191 to the thromboxane (TP-) receptor of human platelets, 110, 539
- Adenosine A<sub>3</sub> receptors**, Adenosine A<sub>3</sub> receptors mediate hypotension in the angiotensin II-supported circulation of the pithed rat, 109, 3
- Adenosine-5'-O-(2-thiodiphosphate) (ADPβS)**, Stimulation of insulin secretion and improvement of glucose tolerance in rat and dog by the P<sub>2γ</sub>-purinoceptor agonist, adenosine-5'-O-(2-thiodiphosphate), 109, 183
- Adenosine-(5')-tetrphospho-(5')-adenosine (Ap<sub>4</sub>A)**, Ap<sub>4</sub>A and ADP-β-S binding to P<sub>2</sub> purinoceptors present on rat brain synaptic terminals, 108, 1094
- Adenosine 5'-[β-thio]diphosphate**, Characterization of the effects of adenosine 5'-[β-thio]diphosphate in rat liver, 108, 663
- Adenylate cyclase**, Comparative study of the control of basal acid output from rodent isolated stomachs, 109, 941
- Insulin-mediated sensitization of adenylyl cyclase activation, 110, 1640
  - L-694,247: a potent 5-HT<sub>1D</sub> receptor agonist, 110, 1196
  - Potentiation of aggregation and inhibition of adenylate cyclase in human platelets by prostaglandin E analogues, 108, 363
  - Repeated administration of desipramine and a GABA<sub>B</sub> receptor antagonist, CGP 36742, discretely up-regulates GABA<sub>B</sub> receptor binding sites in rat frontal cortex, 110, 724
- Adhesion**, Effect of activation on adhesion of flowing neutrophils to cultured endothelium: time course and inhibition by a calcium channel blocker (nitrendipine), 110, 1630
- Adipocytes**, α<sub>2</sub>-Adrenoceptor antagonist potencies of two hydroxylated metabolites of yohimbine, 108, 927
- Characterization of the adenosine receptor mediating contraction in rat colonic muscularis mucosae, 110, 1255
  - Evidence for a functional β<sub>2</sub>-adrenoceptor in man, 110, 929
- Adjuvant arthritis**, Modulation of adjuvant arthritis by endogenous nitric oxide, 110, 701
- ADP**, Effects of analogues of adenine nucleotides on increases in intracellular calcium mediated by P<sub>2T</sub>-purinoceptors on human blood platelets, 108, 728
- Adrenal medulla**, Evidence for a nucleotide receptor on adrenal medullary endothelial cells linked to phospholipase C and phospholipase D, 108, 1031
- GABA<sub>B</sub> receptors modulate catecholamine secretion in chromaffin cells by a mechanism involving cyclic AMP formation, 110, 1586
- Adrenal nerve activity**, Effects of intracerebroventricular injection of histamine and related compounds on corticosterone release in rats, 109, 807
- Adrenalectomy**, Production by *R*-α-methylhistamine of a histamine H<sub>2</sub> receptor-mediated decrease in basal vascular resistance in guinea-pigs, 110, 553
- Adrenaline**, Enhancement of airway reactivity to histamine by isoprenaline and related β-adrenoceptor agonists in the guinea-pig, 108, 1016
- Halothane inhibits the pressor effect of diphenylethylidonium, 109, 1186
  - Interaction between the effects of 5-hydroxytryptamine and adrenaline on the growth of platelet thrombi in the coronary artery of the anaesthetized dog, 109, 405
- [<sup>3</sup>H]-Adrenaline**, Sodium modulation of <sup>3</sup>H-agonist and <sup>3</sup>H-antagonist binding to α<sub>2</sub>-adrenoceptor subtypes, 109, 371
- Adrenergic neurotransmission**, Effect of ω-conotoxin on adrenergic, cholinergic and NANC neurotransmission in the rabbit urethra and detrusor, 110, 1285
- Effect of opioid receptor subtype-selective agonists on purinergic and adrenergic components of neurogenic contractions of mouse vas deferens, 108, 443
- Adrenoceptors**, Antagonism of the stimulatory effects of efaroxan and glibenclamide in rat pancreatic islets by the imidazoline, RX801080, 110, 1017
- Demonstration of the suitability of CGP 12177 for *in vivo* studies of β-adrenoceptors, 109, 1101
  - Differential changes of adrenoceptor- and muscarinic receptor-linked prostacyclin synthesis by the aorta and urinary bladder of the diabetic rat, 108, 1131
  - Influences of the endothelium and hypoxia on α<sub>1</sub>- and α<sub>2</sub>-adrenoceptor-mediated responses in the rabbit isolated pulmonary artery, 108, 155
  - Potentiation of α-adrenoceptor-mediated responses following chronic β-adrenoceptor stimulation in the rat heart, 108, 658
- Adrenoceptor agonists**, Effect of adrenoceptor agonists on striated muscle strips of the canine oesophagus, 110, 297
- α-Adrenoceptors**, The effects of α-adrenoceptor agonists on intracellular Ca<sup>2+</sup> levels in freshly dispersed single smooth muscle cells from rat tail artery, 109, 1272
- Evidence that depletion of internal calcium stores sensitive to noradrenaline elicits a contractile response dependent on extracellular

- calcium in rat aorta, 110, 861
- Influences of the endothelium and hypoxia on neurogenic transmission in the isolated pulmonary artery of the rabbit, 108, 150
  - Interactions of nitric oxide synthase inhibitors and dexamethasone with  $\alpha$ -adrenoceptor-mediated responses in rat aorta, 109, 495
  - Involvement of pertussis toxin-sensitive and -insensitive mechanisms in  $\alpha$ -adrenoceptor modulation of noradrenaline release from rat sympathetic neurones in tissue culture, 110, 281
  - Renal tubular dopamine outward transfer during  $\text{Na}^+\text{-H}^+$  exchange activation by  $\alpha_1$ - and  $\alpha_2$ -adrenoceptor agonists, 109, 569
  - Sympathetic innervation and  $\alpha$ -adrenoceptor profile of blood vessels in the posterior region of the rabbit knee joint, 108, 79
- $\alpha$ -Adrenoceptor agonists**, The effects of  $\alpha$ -adrenoceptor agonists on intracellular  $\text{Ca}^{2+}$  levels in freshly dispersed single smooth muscle cells from rat tail artery, 109, 1272
- Sympathetic innervation and  $\alpha$ -adrenoceptor profile of blood vessels in the posterior region of the rabbit knee joint, 108, 79
- $\alpha$ -Adrenoceptor antagonists**, Comparison between carvedilol and captopril in rats with partial ablation-induced chronic renal failure, 109, 581
- Pharmacological activity of (-)-discretamine, a novel vascular  $\alpha$ -adrenoceptor and 5-hydroxytryptamine receptor antagonist, isolated from *Fissistigma glaucescens*, 110, 882
  - Sympathetic innervation and  $\alpha$ -adrenoceptor profile of blood vessels in the posterior region of the rabbit knee joint, 108, 79
- $\alpha$ -Adrenoceptor regulation**, Potentiation of  $\alpha$ -adrenoceptor-mediated responses following chronic  $\beta$ -adrenoceptor stimulation in the rat heart, 108, 658
- $\alpha$ -Adrenoceptor subtypes**,  $\alpha_2$ -Autoreceptor subclassification in rat isolated kidney by use of short trains of electrical stimulation, 108, 262
- $\alpha_1$ -Adrenoceptors**,  $\beta_1$ - and  $\beta_2$ -adrenoceptor-mediated relaxation in human internal mammary artery and saphenous vein: unchanged  $\beta$ - and  $\alpha$ -adrenoceptor responsiveness after chronic  $\beta_1$ -adrenoceptor blockade, 109, 1053
- Effects of nifedipine and ryanodine on adrenergic neurogenic contractions of rat vas deferens: evidence for a pulse-to-pulse change in  $\text{Ca}^{2+}$  sources, 108, 1062
  - Induction by endogenous noradrenaline of an  $\alpha_1$ -adrenoceptor-mediated positive inotropic effect in rabbit papillary muscles, 109, 1232
  - Interactions between responses mediated by activation of adenosine  $\text{A}_2$  receptors and  $\alpha_1$ -adrenoceptors in the rabbit isolated aorta, 109, 394
  - Investigations of the dual contractile/relaxant properties showed by antioquin in rat aorta, 109, 502
  - Modulation of  $\alpha_1$ -adrenoceptors and functional consequences in the bisected rat vas deferens following chronic inhibition of neuronal noradrenaline uptake, 108, 678
  - Stimulation of lumbar sympathetic nerves evokes contractions of cat colon circular muscle mediated by ATP and noradrenaline, 110, 1260
- $\alpha_1$ -Adrenoceptor agonists**, Renal tubular dopamine outward transfer during  $\text{Na}^+\text{-H}^+$  exchange activation by  $\alpha_1$ - and  $\alpha_2$ -adrenoceptor agonists, 109, 569
- $\alpha_1$ -Adrenoceptor antagonists**, Alfuzosin, a selective  $\alpha_1$ -adrenoceptor antagonist in the lower urinary tract, 109, 1282
- Study of the mechanism of the relaxant action of (+)-glauicine in rat vas deferens, 110, 943
- $\alpha_1$ -Adrenoceptor subtypes**, Chloroethylclonidine: an irreversible agonist at prejunctional  $\alpha_2$ -adrenoceptors in rat vas deferens, 108, 336
- Investigation of the subtypes of  $\alpha_1$ -adrenoceptor mediating contractions of rat aorta, vas deferens and spleen, 109, 80
  - Pharmacological characterization of two distinct  $\alpha_1$ -adrenoceptor subtypes in rabbit thoracic aorta, 108, 1071
  - Relation between  $\alpha_1$ -adrenoceptor subtypes and noradrenaline-induced contraction in rat portal vein smooth muscle, 110, 207
- $\alpha_2$ -Adrenoceptors**, [ $^3\text{H}$ ]-Idazoxan binding to rabbit cerebral cortex recognises multiple imidazoline  $\text{I}_2$ -type receptors: pharmacological characterization and relationship to monoamine oxidase, 109, 625
- $\alpha_2$ -Adrenoceptor antagonist potencies of two hydroxylated metabolites of yohimbine, 108, 927
  - Cloning and expression of a fish  $\alpha_2$ -adrenoceptor, 110, 54
  - Effect of an intracellular calcium chelator on the regulation of electrically evoked [ $^3\text{H}$ ]-noradrenaline release from rat hippocampal slices, 108, 126
  - Effects of 5-HT-receptor and  $\alpha_2$ -adrenoceptor ligands on the haemodynamic response to acute central hypovolaemia in conscious rabbits, 109, 37
  - Effects of phospholipase  $\text{A}_2$  inhibitors on coupling of  $\alpha_2$ -adrenoceptors to inwardly rectifying potassium currents in guinea-pig submucosal neurones, 110, 591
  - *In vivo* microdialysis of noradrenaline overflow: effects of  $\alpha$ -adrenoceptor agonists and antagonists measured by cumulative concentration-response curves, 109, 655
  - Mediation of the hypotensive action of systemic clonidine in the rat by  $\alpha_2$ -adrenoceptors, 110, 1635
  - Modulation of central noradrenergic function by RS-15385-197, 108, 526
  - The pharmacology of RS-15385-197, a potent and selective  $\alpha_2$ -adrenoceptor antagonist, 108, 516
  - Renal imidazoline preferring sites and solute excretion in the rat, 108, 870
  - Sensory nerve-mediated relaxation of guinea-pig isolated pulmonary artery: prejunctional modulation by  $\alpha_2$ -adrenoceptor agonists but not sumatriptan, 109, 126
  - Species-selective binding of [ $^3\text{H}$ ]-idazoxan to  $\alpha_2$ -adrenoceptors and non-adrenoceptor, imidazoline binding sites in the central nervous system, 109, 831
  - The spinal antinociceptive activity of the  $\alpha_2$ -adrenoceptor agonist, xylazine in sheep, 108, 907
  - Stimulation of insulin secretion by imidazoline compounds is not due to interaction with non-adrenoceptor idazoxan binding sites, 108, 312
- $\alpha_2$ -Adrenoceptors, brain**, Acceleration by chronic treatment with clorgyline of the turnover of brain  $\alpha_2$ -adrenoceptors in normotensive but not in spontaneously hypertensive rats, 110, 99
- $\alpha_2$ -Adrenoceptors, prejunctional**,  $\alpha_2$ -Adrenoceptor-mediated modulation of the nitrergic innervation of the canine isolated ileocolonic junction, 109, 1079
- Effects of nifedipine and ryanodine on adrenergic neurogenic contractions of rat vas deferens: evidence for a pulse-to-pulse change in  $\text{Ca}^{2+}$  sources, 108, 1062
- $\alpha_2$ -Adrenoceptor agonists**, Differential effects of  $\text{K}^+$  channel blockers on antinociception induced by  $\alpha_2$ -adrenoceptor,  $\text{GABA}_\text{B}$  and  $\kappa$ -opioid receptor agonists, 110, 1049
- Lack of effect of sumatriptan and UK-14,304 on capsaicin-induced relaxation of guinea-pig isolated basilar artery, 108, 191
  - Renal tubular dopamine outward transfer during  $\text{Na}^+\text{-H}^+$  exchange activation by  $\alpha_1$ - and  $\alpha_2$ -adrenoceptor agonists, 109, 569
  - The profiles of interaction of yohimbine with anxiolytic and putative anxiolytic agents to modify 5-HT release in the frontal cortex of freely-moving rats, 110, 1079
- $\alpha_2$ -Adrenoceptor antagonists**, Antagonism of the stimulatory effects of efaroxan and glibenclamide in rat pancreatic islets by the imidazoline, RX801080, 110, 1017
- The effects of  $\alpha_2$ -adrenoceptor antagonists on the inhibition of 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane (DOI)-induced head shakes by 5-HT $_{1A}$  receptor agonists in the mouse, 109, 1046
  - Modulation of central noradrenergic function by RS-15385-197, 108, 526
  - The pharmacology of RS-15385-197, a potent and selective  $\alpha_2$ -adrenoceptor antagonist, 108, 516
  - The profiles of interaction of yohimbine with anxiolytic and putative anxiolytic agents to modify 5-HT release in the frontal cortex of freely-moving rats, 110, 1079
- $\alpha_2$ -Adrenoceptor subtypes**,  $\alpha_2$ -Autoreceptor subclassification in rat isolated kidney by use of short trains of electrical stimulation, 108, 262
- The pharmacology of RS-15385-197, a potent and selective  $\alpha_2$ -adrenoceptor antagonist, 108, 516
  - Sodium modulation of  $^3\text{H}$ -agonist and  $^3\text{H}$ -antagonist binding to  $\alpha_2$ -adrenoceptor subtypes, 109, 371
- $\beta$ -Adrenoceptors**, Adenylate cyclase-mediated vascular responses of rabbit aorta, mesenteric artery and skin microcirculation, 110, 633
- $\beta$ -Adrenoceptor agonist mediated relaxation of rat isolated resistance arteries: a role for the endothelium and nitric oxide, 108, 631
  - The  $\beta$ -adrenoceptors mediating relaxation of rat oesophageal muscularis mucosae are predominantly of the  $\beta_3$ -, but also of the  $\beta_2$ -subtype, 110, 442
  - Comparison of the effects of selective inhibitors of phosphodiesterase types III and IV in airway smooth muscle with differing  $\beta$ -adrenoceptor subtypes, 108, 57
  - Demonstration of the suitability of CGP 12177 for *in vivo* studies of

- $\beta$ -adrenoceptors, 109, 1101
- The effects of  $\beta$ -adrenoceptor activation on contraction in isolated fast- and slow-twitch skeletal muscle fibres of the rat, 110, 1133
  - Effects of prolonged application of isoprenaline on intracellular free magnesium concentration in isolated heart of rat, 109, 443
  - Effects of rolipram and siguazodan on the human isolated bronchus and their interaction with isoprenaline and sodium nitroprusside, 109, 774
  - Effects of selective antagonism of  $\beta$ -adrenoceptor sub-types on responses to isoprenaline in rat distal colon *in vitro*, 110, 1551
  - Induction by endogenous noradrenaline of an  $\alpha_1$ -adrenoceptor-mediated positive inotropic effect in rabbit papillary muscles, 109, 1232
  - Insulin-mediated sensitization of adenylyl cyclase activation, 110, 1640
  - Modulation of central noradrenergic function by RS-15385-197, 108, 526
  - Repeated administration of desipramine and a GABA<sub>B</sub> receptor antagonist, CGP 36742, discretely up-regulates GABA<sub>B</sub> receptor binding sites in rat frontal cortex, 110, 724
- $\beta$ -Adrenoceptors, atypical**, Characterization of propranolol-resistant (-)-[<sup>125</sup>I]-cyanopindolol binding sites in rat soleus muscle, 109, 344
- Effects of selective antagonism of  $\beta$ -adrenoceptor sub-types on responses to isoprenaline in rat distal colon *in vitro*, 110, 1551
  - Evaluation of ICI D7114, a putative stimulant of brown adipocytes, on histamine-contracted guinea-pig ileum, 109, 1212
- $\beta$ -Adrenoceptor agonists**, Effects of  $\beta$ -adrenoceptor agonists in human bronchial smooth muscle, 110, 1112
- Enhancement of airway reactivity to histamine by isoprenaline and related  $\beta$ -adrenoceptor agonists in the guinea-pig, 108, 1016
  - Investigations into factors determining the duration of action of the  $\beta_2$ -adrenoceptor agonist, salmeterol, 108, 507
- $\beta$ -Adrenoceptor antagonists**, The affinity of betaxolol, a  $\beta_1$ -adrenoceptor-selective blocking agent, for  $\beta$ -adrenoceptors in the bovine trachea and heart, 108, 484
- Comparison between carvedilol and captopril in rats with partial ablation-induced chronic renal failure, 109, 581
  - Demonstration of the suitability of CGP 12177 for *in vivo* studies of  $\beta$ -adrenoceptors, 109, 1101
  - Effect of tienoxolol, a new diuretic  $\beta$ -blocking agent, on urinary prostaglandin excretion in the rat, 109, 278
  - Endothelium-dependent noradrenaline-induced relaxation of rat isolated cerebral arteries: pharmacological characterization of receptor subtypes involved, 110, 1321
  - Investigations into factors determining the duration of action of the  $\beta_2$ -adrenoceptor agonist, salmeterol, 108, 507
- $\beta$ -Adrenoceptor desensitization**, Incomplete reversal of  $\beta$ -adrenoceptor desensitization in human and guinea-pig cardiomyocytes by cyclic nucleotide phosphodiesterase inhibitors, 109, 1071
- Potentiation of  $\alpha$ -adrenoceptor-mediated responses following chronic  $\beta$ -adrenoceptor stimulation in the rat heart, 108, 658
- $\beta$ -Adrenoceptor subtypes**,  $\beta_1$ - and  $\beta_2$ -adrenoceptor-mediated relaxation in human internal mammary artery and saphenous vein: unchanged  $\beta$ - and  $\alpha$ -adrenoceptor responsiveness after chronic  $\beta_1$ -adrenoceptor blockade, 109, 1053
- $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal K<sup>+</sup>-channels in bovine trachealis muscle: studies of mechanical activity and ion fluxes, 109, 1149
  - $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal K<sup>+</sup>-channels in trachealis muscle: electrophysiological and mechanical studies in guinea-pig tissue, 109, 1140
  - Comparison of the effects of selective inhibitors of phosphodiesterase types III and IV in airway smooth muscle with differing  $\beta$ -adrenoceptor subtypes, 108, 57
- $\beta_1$ -Adrenoceptors**, Effects of selective antagonism of  $\beta$ -adrenoceptor sub-types on responses to isoprenaline in rat distal colon *in vitro*, 110, 1551
- $\beta_1$ -Adrenoceptor antagonism**,  $\beta_1$ - and  $\beta_2$ -adrenoceptor-mediated relaxation in human internal mammary artery and saphenous vein: unchanged  $\beta$ - and  $\alpha$ -adrenoceptor responsiveness after chronic  $\beta_1$ -adrenoceptor blockade, 109, 1053
- $\beta_1$ -Adrenoceptor selectivity**, The affinity of betaxolol, a  $\beta_1$ -adrenoceptor-selective blocking agent, for  $\beta$ -adrenoceptors in the bovine trachea and heart, 108, 484
- $\beta_2$ -Adrenoceptors**, Effect of adrenoceptor agonists on striated muscle strips of the canine oesophagus, 110, 297
- Effects of  $\beta$ -adrenoceptor agonists in human bronchial smooth muscle, 110, 1112
  - Effects of selective antagonism of  $\beta$ -adrenoceptor sub-types on responses to isoprenaline in rat distal colon *in vitro*, 110, 1551
  - Lymphocyte  $\beta_2$ -adrenoceptors and adenosine 3':5'-cyclic monophosphate during and after normal pregnancy, 108, 356
  - Salmeterol, a long-acting  $\beta_2$ -adrenoceptor agonist mediating cyclic AMP accumulation in a neuronal cell line, 110, 619
- $\beta_2$ -Adrenoceptor agonists**, Comparison of the anti-inflammatory properties of formoterol, salbutamol and salmeterol in guinea-pig skin and lung, 110, 613
- $\beta_2$ -Adrenoceptors**, The  $\beta$ -adrenoceptors mediating relaxation of rat oesophageal muscularis mucosae are predominantly of the  $\beta_2$ -, but also of the  $\beta_1$ -subtype, 110, 442
- Characterization of propranolol-resistant (-)-[<sup>125</sup>I]-cyanopindolol binding sites in rat soleus muscle, 109, 344
  - Effects of selective antagonism of  $\beta$ -adrenoceptor sub-types on responses to isoprenaline in rat distal colon *in vitro*, 110, 1551
  - Effects of two  $\beta_2$ -adrenoceptor agonists, SR 58611A and BRL 37344, and of salbutamol on cholinergic and NANC neural contraction in guinea-pig main bronchi *in vitro*, 110, 1311
  - Evidence for a functional  $\beta_2$ -adrenoceptor in man, 110, 929
  - Ligand binding properties of putative  $\beta_2$ -adrenoceptors compared in brown adipose tissue and in skeletal muscle membranes, 109, 1157
  - Zeneca ZD7114 acts as an antagonist at  $\beta_2$ -adrenoceptors in rat isolated ileum, 110, 1375
- $\beta_2$ -Adrenoceptor agonists**, Effects of two  $\beta_2$ -adrenoceptor agonists, SR 58611A and BRL 37344, and of salbutamol on cholinergic and NANC neural contraction in guinea-pig main bronchi *in vitro*, 110, 1311
- $\beta_2$ -Adrenoceptor antagonists**, Zeneca ZD7114 acts as an antagonist at  $\beta_2$ -adrenoceptors in rat isolated ileum, 110, 1375
- Adrenocorticotrophic hormones**, Involvement of cholecystokinin receptor types in pathways controlling oxytocin secretion, 110, 378
- Aequorin**, Cellular mechanism of the positive inotropic effect of hydralazine in mammalian myocardium, 109, 667
- Aerial righting reflex**, Similar effects of ethanol and flumazenil on acquisition of a shuttle-box avoidance response during withdrawal from chronic ethanol treatment, 110, 753
- Affinity**, Estimation of partial agonist affinity by interaction with a full agonist: a direct operational model-fitting approach, 110, 239
- Affinity estimation**, Pharmacological characterization of acetylcholine-stimulated [<sup>35</sup>S]-GTP $\gamma$ S binding mediated by human muscarinic m1-m4 receptors: antagonist studies, 109, 1120
- Ageing**, Attenuation of tachykinin-induced airflow obstruction and microvascular leakage in immature airways, 108, 23
- Airway epithelium**, Influence of epithelium on the inhibition of melittin-induced contraction of guinea-pig isolated trachea by the potassium channel opener NIP-121, 109, 1091
- Airway hyperreactivity**, Enhancement of airway reactivity to histamine by isoprenaline and related  $\beta$ -adrenoceptor agonists in the guinea-pig, 108, 1016
- Airway hyperresponsiveness**, Effect of heparin and a low-molecular weight heparinoid on PAF-induced airway responses in neonatally immunized rabbits, 110, 107
- Role of leukotrienes in airway hyperresponsiveness in guinea-pigs, 108, 700
- Airway obstruction**, Attenuation of tachykinin-induced airflow obstruction and microvascular leakage in immature airways, 108, 23
- Airway oedema**, Bradykinin-induced airflow obstruction and airway plasma exudation: effects of drugs that inhibit acetylcholine, thromboxane A<sub>2</sub> or leukotrienes, 110, 657
- Airway resistance**, Immediate inhibitory effect of methylprednisolone sultepanate (U-67590A) on antigen-induced cutaneous and airway anaphylactic responses in guinea-pigs, 108, 604
- Airways**, Antagonism of the inhibitory action of neuropeptide Y (NPY) in guinea-pig trachea by the C-terminal fragment NPY (2-36), 109, 902
- Comparison of the airways relaxant and hypotensive potencies of the potassium channel activators BRL 55834 and levcromakalim (BRL 38227) *in vivo* in guinea-pigs and rats, 109, 1133
  - Effect of heparin and a low-molecular weight heparinoid on PAF-induced airway responses in neonatally immunized rabbits, 110, 107
  - Enhancement by endothelin-1 of microvascular permeability via the activation of ET<sub>A</sub> receptors, 109, 880
  - Modulation by nitric oxide of platelet-activating factor-induced

- albumin extravasation in the conscious rat, 110, 1347
- Airways, guinea-pig**, Endothelin receptor subtypes in human and guinea-pig pulmonary tissues, 110, 1175
- Identification of both NK<sub>1</sub> and NK<sub>2</sub> receptors in guinea-pig airways, 110, 693
  - NK<sub>2</sub> receptors mediate plasma extravasation in guinea-pig lower airways, 108, 383
  - Virus-induced airway hyperresponsiveness in the guinea-pig: possible involvement of histamine and inflammatory cells, 108, 1083
- Airways, murine**, Functional characterization of muscarinic receptors in murine airways, 109, 53
- Airways, rat**, Ruthenium red, but not capsazepine reduces plasma extravasation by cigarette smoke in rat airways, 108, 646
- Albumin**, Stimulated eosinophils and proteinases augment the transepithelial flux of albumin in bovine bronchial mucosa, 110, 840
- Virus-induced airway hyperresponsiveness in the guinea-pig: possible involvement of histamine and inflammatory cells, 108, 1083
- Albumin extravasation**, Modulation by nitric oxide of platelet-activating factor-induced albumin extravasation in the conscious rat, 110, 1347
- Aldose reductase inhibition**, Vasoreactivity and prostacyclin release in streptozotocin-diabetic rats: effects of insulin or aldose reductase inhibition, 109, 980
- Aldosterone**, Pharmacological profile of valsartan: a potent, orally active, nonpeptide antagonist of the angiotensin II AT<sub>1</sub>-receptor subtype, 110, 761
- Alfentanil**, Electrophysiological actions of alfentanil: intracellular studies in the rat locus coeruleus neurones, 110, 903
- Alfuzosin**, Alfuzosin, a selective  $\alpha_1$ -adrenoceptor antagonist in the lower urinary tract, 109, 1282
- Alinidine**, Inhibitory actions of ZENECA ZD7288 on whole-cell hyperpolarization activated inward current ( $I_p$ ) in guinea-pig dissociated sinoatrial node cells, 110, 343
- Alkylation**, Interactions between responses mediated by activation of adenosine A<sub>2</sub> receptors and  $\alpha_1$ -adrenoceptors in the rabbit isolated aorta, 109, 394
- Selective inactivation of muscarinic M<sub>2</sub> and M<sub>3</sub> receptors in guinea-pig ileum and atria *in vitro*, 109, 946
- Allergic responses**, Characterization and pharmacological modulation of antigen-induced peritonitis in actively sensitized mice, 110, 917
- Allopurinol**, Allopurinol and amlodipine improve coronary vasodilatation after myocardial ischaemia and reperfusion in anaesthetized dogs, 108, 342
- Allosteric effect**, Pharmacological characterization of acetylcholine-stimulated [<sup>35</sup>S]-GTP $\gamma$ S binding mediated by human muscarinic m1-m4 receptors: antagonist studies, 109, 1120
- Alphaxalone**, The influence of the  $\gamma_{2L}$  subunit on the modulation of responses to GABA<sub>A</sub> receptor activation, 108, 711
- Alprenolol**, Evaluation of ICI D7114, a putative stimulant of brown adipocytes, on histamine-contracted guinea-pig ileum, 109, 1212
- Aluminium phthalocyanine tetrasulphonate**, Photodynamic action of aluminium phthalocyanine tetrasulphonate (AlPcS<sub>4</sub>) on smooth muscle: effects of thiols and a cyclic GMP analogue, 110, 1248
- Amiloride**, Ionic effects on amiloride block of the mechanosensitive channel in *Xenopus* oocytes, 108, 116
- Na<sup>+</sup>/H<sup>+</sup> exchange inhibitors reverse lactate-induced depression in postischaemic ventricular recovery, 108, 50
- Amine transport**, High-affinity uptake of noradrenaline in postsynaptic neurones, 109, 299
- Amino acid transmitters**, Actions of agonists of metabotropic glutamate receptors on synaptic transmission and transmitter release in the olfactory cortex, 108, 422
- Amino acids**, A comparison of rat brain amino acid and monoamine content in diazepam withdrawal and after exposure to a phobic stimulus, 109, 171
- DL-2-Amino-4-phosphonobutyrate**, Anion transport blockers inhibit DL-2-amino-4-phosphonobutyrate responses induced by quisqualate in the rat cerebral cortex, 109, 449
- Aminoguanidine**, Aminoguanidine selectively inhibits inducible nitric oxide synthase, 110, 963
- p-Amino-hippuric acid clearance**, The diuretic action of 8-cyclopentyl-1,3-dipropylxanthine, a selective A<sub>1</sub> adenosine receptor antagonist, 109, 271
- N<sup>6</sup>-2-(4-Aminophenyl)ethyl adenosine (APNEA)**, Adenosine A<sub>3</sub> receptors mediate hypotension in the angiotensin II-supported circulation of the pithed rat, 109, 3
- Aminophylline**, Influence of epithelium on the inhibition of melittin-induced contraction of guinea-pig isolated trachea by the potassium channel opener NIP-121, 109, 1091
- 3-Aminopropyl-phosphinic acid**, Antitussive effects of GABA<sub>B</sub> agonists in the cat and guinea-pig, 110, 491
- 4-Aminopyridine**, Differential effects of K<sup>+</sup> channel blockers on antinociception induced by  $\alpha_2$ -adrenoceptor, GABA<sub>B</sub> and K-opioid receptor agonists, 110, 1049
- Aminopyridines**, Action of  $\alpha$ -dendrotoxin on K<sup>+</sup> currents in nerve terminal regions of axons in rat olfactory cortex, 109, 535
- Differential inhibition of a transient K<sup>+</sup> current by chlorpromazine and 4-aminopyridine in neurones of the rat dorsal root ganglia, 109, 1239
  - Effects of carbamazepine and baclofen on 4-aminopyridine-induced epileptic activity in rat hippocampal slices, 108, 819
  - Reversal by suramin of neuromuscular block produced by pancuronium in the anaesthetized rat, 108, 717
- (RS)- $\alpha$ -Amino-3-hydroxy-5-methyl-isoxazole-4-propionate**, Selective reduction of N-methyl-D-aspartate-evoked responses by 1,3-di(2-tolyl)guanidine in mouse and rat cultured hippocampal pyramidal neurones, 109, 1196
- *see also* AMPA
- Amlodipine**, The action of amlodipine on voltage-operated calcium channels in vascular smooth muscle, 109, 120
- Allopurinol and amlodipine improve coronary vasodilatation after myocardial ischaemia and reperfusion in anaesthetized dogs, 108, 342
- AMPA**, Inotropic glutamate receptor types leading to adenosine-mediated inhibition of electrically evoked [<sup>3</sup>H]-noradrenaline release in rabbit brain cortex slices, 110, 1544
- Thiocyanate ions selectively antagonize AMPA-evoked responses in *Xenopus laevis* oocytes microinjected with rat brain mRNA, 109, 779
- Amylase**, Pathological events in experimental acute pancreatitis prevented by the bradykinin antagonist, Hoe 140, 108, 405
- Amylase release**, Competitive inhibition by procaine of carbachol-induced stimulus-secretion coupling in rat pancreatic acini, 110, 603
- Effects of the immunosuppressants cyclosporin A and FK 506 on exocytosis in the rat exocrine pancreas *in vitro*, 108, 892
- Anaesthetics**, Halothane inhibits the pressor effect of diphenyleiiodonium, 109, 1186
- Analgesia**, Cholecystokinin as a factor in the enhanced potency of spinal morphine following carrageenin inflammation, 108, 967
- Differential sensitivity of antinociceptive assays to the bradykinin antagonist Hoe 140, 108, 209
- Anandamide**, Cross-tolerance between delta-9-tetrahydrocannabinol and the cannabimimetic agents, CP 55,940, WIN 55,212-2 and anandamide, 110, 1483
- Anaphylaxis, cutaneous**, Suppression by intradermal administration of heparin of eosinophil accumulation but not oedema formation in inflammatory reactions in guinea-pig skin, 110, 1496
- Angiogenesis**, The effects of evening primrose oil on nerve function and capillarization in streptozotocin-diabetic rats: modulation by the cyclo-oxygenase inhibitor flurbiprofen, 109, 972
- [Leu<sup>8</sup>]des-Arg<sup>9</sup>-bradykinin inhibits the angiogenic effect of bradykinin and interleukin-1 in rats, 109, 14
  - Nitric oxide is involved in the regulation of angiogenesis, 108, 855
  - Stimulation of angiogenesis by substance P and interleukin-1 in the rat and its inhibition by NK<sub>1</sub> or interleukin-1 receptor antagonists, 110, 43
- Angiosuppression**, [Leu<sup>8</sup>]des-Arg<sup>9</sup>-bradykinin inhibits the angiogenic effect of bradykinin and interleukin-1 in rats, 109, 14
- Stimulation of angiogenesis by substance P and interleukin-1 in the rat and its inhibition by NK<sub>1</sub> or interleukin-1 receptor antagonists, 110, 43
- Angiotensin**, Pharmacological characterization of the contractile responses to angiotensin analogues in guinea-pig isolated longitudinal muscle of small intestine, 108, 1150
- Angiotensin I**, Differential effects of captopril on regional haemodynamic responses to angiotensin I and bradykinin in conscious rats, 108, 769
- Angiotensin II**, Adenosine A<sub>3</sub> receptors mediate hypotension in the angiotensin II-supported circulation of the pithed rat, 109, 3
- Chloride anion concentration as a determinant of renal vascular responsiveness to vasoconstrictor agents, 108, 106
  - Comparison of the effects of EXP3174, an angiotensin II antagonist and enalaprilat on myocardial infarct size in anaesthetized dogs, 110, 969
  - A comparison of the inhibitory effects of sodium nitroprusside,

- pinacidil and nifedipine on pressor response to  $N^G$ -nitro-L-arginine, 108, 398
- The effects of a converting enzyme inhibitor (captopril) and angiotensin II on fetal renal function, 110, 821
  - A facilitatory effect of anti-angiotensin drugs on vagal bradycardia in the pithed rat and guinea-pig, 110, 289
  - Pharmacological characteristics of the positive inotropic effect of angiotensin II in the rabbit ventricular myocardium, 108, 999
  - Protein kinase C inhibitors enhance endothelin-1 and attenuate vasopressin and angiotensin II evoked  $[Ca^{2+}]_i$  elevation in the rat cardiomyocyte, 108, 6
  - Regional haemodynamic effects of angiotensin II (3-8) in conscious rats, 110, 159
  - Role of angiotensin  $AT_1$  and  $AT_2$  receptors in mediating the renal effects of angiotensin II in the anaesthetized dog, 109, 148
  - Vasoreactivity and prostacyclin release in streptozotocin-diabetic rats: effects of insulin or aldose reductase inhibition, 109, 980
- Angiotensin II (3-8)**, Regional haemodynamic effects of angiotensin II (3-8) in conscious rats, 110, 159
- Angiotensin II receptors**, Pharmacological characterization of the novel nonpeptide angiotensin II receptor antagonist, BIBR 277, 110, 245
- Angiotensin II receptor antagonists**, Pharmacological characterization of the novel nonpeptide angiotensin II receptor antagonist, BIBR 277, 110, 245
- Angiotensin II receptor subtypes**, Pharmacological characterization of the contractile responses to angiotensin analogues in guinea-pig isolated longitudinal muscle of small intestine, 108, 1150
- Angiotensin  $AT_1$  receptor antagonists**, Comparison of the effects of EXP3174, an angiotensin II antagonist and enalaprilat on myocardial infarct size in anaesthetized dogs, 110, 969
- Role of angiotensin  $AT_1$  and  $AT_2$  receptors in mediating the renal effects of angiotensin II in the anaesthetized dog, 109, 148
- Angiotensin  $AT_2$  receptor antagonists**, Role of angiotensin  $AT_1$  and  $AT_2$  receptors in mediating the renal effects of angiotensin II in the anaesthetized dog, 109, 148
- Angiotensin receptors**, Comparison of the regional haemodynamic effects of the  $AT_1$ -receptor antagonists, losartan and EXP 3174, in water-deprived Brattleboro rats, 108, 684
- A facilitatory effect of anti-angiotensin drugs on vagal bradycardia in the pithed rat and guinea-pig, 110, 289
  - Pharmacological characteristics of the positive inotropic effect of angiotensin II in the rabbit ventricular myocardium, 108, 999
  - Pharmacological profile of valsartan: a potent, orally active, nonpeptide antagonist of the angiotensin II  $AT_1$ -receptor subtype, 110, 761
- Angiotensin receptor antagonists**, Binding of angiotensin antagonists to rat liver and brain membranes measured *ex vivo*, 109, 760
- Pharmacological profile of valsartan: a potent, orally active, nonpeptide antagonist of the angiotensin II  $AT_1$ -receptor subtype, 110, 761
- Angiotensin-converting enzymes**, Differential effects of captopril on regional haemodynamic responses to angiotensin I and bradykinin in conscious rats, 108, 769
- Dose-dependent effects of angiotensin converting enzyme (ACE) inhibitors on glomerular prostanoid production by normotensive rats, 108, 327
  - Monocrotaline pyrrole-induced changes in angiotensin-converting enzyme activity of cultured pulmonary artery endothelial cells, 110, 597
  - Ramiprilat increases bradykinin outflow from isolated hearts of rat, 108, 293
- Angiotensin-converting enzyme inhibitors**, Comparison between carvedilol and captopril in rats with partial ablation-induced chronic renal failure, 109, 581
- Dose-dependent effects of angiotensin converting enzyme (ACE) inhibitors on glomerular prostanoid production by normotensive rats, 108, 327
  - The effects of a converting enzyme inhibitor (captopril) and angiotensin II on fetal renal function, 110, 821
  - Investigations into the mechanism of vasoconstrictor action of the topical steroid betamethasone-17-valerate in the rat, 108, 544
  - Quinapril treatment and arterial smooth muscle responses in spontaneously hypertensive rats, 108, 980
- Anion transport**, Anion transport blockers inhibit DL-2-amino-4-phosphonobutyrate responses induced by quisqualate in the rat cerebral cortex, 109, 449
- Annexins**, Glucocorticoid- and non-glucocorticoid-induction of lipocortins (annexins) 1 and 2 in rat peritoneal leucocytes *in vivo*, 108, 66
- Anococcygeus muscle**, Actions and interactions of  $N^G$ -substituted analogues of L-arginine on NANC neurotransmission in the bovine retractor penis and rat anococcygeus muscles, 108, 242
- Differential effects of hydroxocobalamin on NO-mediated relaxations in rat aorta and anococcygeus muscle, 108, 3
  - Modulation of acetylcholine-induced contractions of the rat anococcygeus muscle by activation of nitrergic nerves, 110, 1479
- Anorectic drugs**, The effects of single and repeated anorectic doses of 5-hydroxytryptamine uptake inhibitors on indole levels in rat brain, 110, 355
- Antagonist affinity**, Estimation of competitive antagonist affinity from functional inhibition curves using the Gaddum, Schild and Cheng-Prusoff equations, 109, 1110
- Antazoline**, Antagonism of levromakalim by imidazoline- and guanidine-derivatives in rat portal vein: involvement of the delayed rectifier, 110, 1556
- Antraquinones**, Influence of rhein anthrone on peristaltic reflex of guinea-pig isolated ileum: involvement of prostaglandins, 108, 269
- Anti-acetylcholine effect**, Antiarrhythmic agents act differently on the activation phase of the ACh-response in guinea-pig atrial myocytes, 108, 111
- Anti-arrhythmic drugs**, Antiarrhythmic agents act differently on the activation phase of the ACh-response in guinea-pig atrial myocytes, 108, 111
- Antiarrhythmic drugs, clofilium and cibenzoline are potent inhibitors of glibenclamide-sensitive  $K^+$  currents in *Xenopus* oocytes, 109, 866
  - Attenuation by phentolamine of hypoxia and levromakalim-induced abbreviation of the cardiac action potential, 110, 1222
  - Differential Class III and glibenclamide effects on action potential duration in guinea-pig papillary muscle during normoxia and hypoxia/ischaemia, 110, 531
  - Effects of hyperkalaemia on the depression of maximum rate of depolarization by class I antiarrhythmic agents in guinea-pig myocardium, 108, 255
  - Effects of propafenone on calcium current in guinea-pig ventricular myocytes, 108, 721
  - Electrophysiological and antiarrhythmic actions of the  $\kappa$  agonist PD 129290, and its *R,R*(+)-enantiomer, PD 129289, 110, 1579
  - Kinetics of rate-dependent slowing of intraventricular conduction by the class Ib antiarrhythmic agent tocainide *in vivo*, 110, 145
- Anti-arrhythmic drugs, Class I**, Effects of hyperkalaemia on the depression of maximum rate of depolarization by class I antiarrhythmic agents in guinea-pig myocardium, 108, 255
- Anti-arrhythmic drugs, Class III**, Differential Class III and glibenclamide effects on action potential duration in guinea-pig papillary muscle during normoxia and hypoxia/ischaemia, 110, 531
- Effects of MS-551, a new class III antiarrhythmic drug, on action potential and membrane currents in rabbit ventricular myocytes, 109, 157
  - Electropharmacological effects of berberine on canine cardiac Purkinje fibres and ventricular muscle and atrial muscle of the rabbit, 108, 534
  - The positive inotropic effect of compound II, a novel analogue of sotalol, on guinea-pig papillary muscles and single ventricular myocytes, 110, 95
- Anti-atherogenic effect**, Protection by scoparone against the alterations of plasma lipoproteins, vascular morphology and vascular reactivity in hyperlipidaemic diabetic rabbit, 110, 1508
- Anti-inflammatory actions**, Anti-inflammatory actions of an *N*-terminal peptide from human lipocortin 1, 108, 573
- Comparison of the anti-inflammatory properties of formoterol, salbutamol and salmeterol in guinea-pig skin and lung, 110, 613
  - A factor released by monocytes in the presence of dexamethasone stimulates neutrophil locomotion, 108, 248
  - The local anti-inflammatory action of dexamethasone in the rat carrageenin oedema model is reversed by an antiserum to lipocortin 1, 108, 62
- Anticholinesterase**, Ion channel blockade by oximes and recovery of diaphragm muscle from soman poisoning *in vitro*, 108, 1006
- Transmitter-mediated local contracture of the endplate region of the focally innervated mouse diaphragm treated with anticholinesterase, 109, 1178
- Anticoagulants**, Effects of heparin on the vasodilator action of

- protamine in the rabbit mesenteric artery, 109, 1247
- Anticonvulsant drugs**, Effects of carbamazepine and baclofen on 4-aminopyridine-induced epileptic activity in rat hippocampal slices, 108, 819
- Antidepressant action**, Mediation of the antidepressant-like effect of 8-OH-DPAT in mice by postsynaptic 5-HT<sub>1A</sub> receptors, 108, 669
- Antidepressants**, Block of potassium currents in rat isolated sympathetic neurones by tricyclic antidepressants and structurally related compounds, 110, 1126
- Repeated administration of desipramine and a GABA<sub>B</sub> receptor antagonist, CGP 36742, discretely up-regulates GABA<sub>B</sub> receptor binding sites in rat frontal cortex, 110, 724
- Antinociception**, 7-Nitro indazole, an inhibitor of nitric oxide synthase, exhibits anti-nociceptive activity in the mouse without increasing blood pressure, 108, 296
- Antinociceptive activity of NK<sub>1</sub> receptor antagonists: non-specific effects of racemic RP67580, 110, 1607
  - Characterization of the novel nitric oxide synthase inhibitor 7-nitro indazole and related indazoles: antinociceptive and cardiovascular effects, 110, 219
  - Differential effects of K<sup>+</sup> channel blockers on antinociception induced by  $\alpha_2$ -adrenoceptor, GABA<sub>B</sub> and  $\kappa$ -opioid receptor agonists, 110, 1049
  - Inhibition of spinal opioid antinociception by intrathecal  $\beta$ -endorphin<sub>1-27</sub> in the rat, 108, 1137
  - Modulation of opioid antinociception by CCK at the supraspinal level: evidence of regulatory mechanisms between CCK and enkephalin systems in the control of pain, 109, 1064
  - The spinal antinociceptive activity of the  $\alpha_2$ -adrenoceptor agonist, xylazine in sheep, 108, 907
- Antinociception, stress-induced**, Effect of delayed weaning on opioid receptor control of swim stress-induced antinociception in the developing rat, 109, 651
- Antioestrogen**, A current view of tamoxifen for the treatment and prevention of breast cancer, 110, 507
- Antioquine**, Investigations of the dual contractile/relaxant properties showed by antioquine in rat aorta, 109, 502
- Antioxidants**, Calcium antagonist and antiperoxidant properties of some hindered phenols, 110, 369
- Antitussive effects**, Antitussive effects of GABA<sub>B</sub> agonists in the cat and guinea-pig, 110, 491
- Anxiogenics**, Similar effects of ethanol and flumazenil on acquisition of a shuttle-box avoidance response during withdrawal from chronic ethanol treatment, 110, 753
- Anxiolytics**, Similar effects of ethanol and flumazenil on acquisition of a shuttle-box avoidance response during withdrawal from chronic ethanol treatment, 110, 753
- Aorta**, Role of tumour necrosis factor in the induction of nitric oxide synthase in a rat model of endotoxin shock, 110, 177
- Aorta, bovine**, The regulation of aortic endothelial cells by purines and pyrimidines involves co-existing P<sub>2</sub>-purinoceptors and nucleotide receptors linked to phospholipase C, 108, 689
- Aorta, rabbit**, Characterization of the novel nitric oxide synthase inhibitor 7-nitro indazole and related indazoles: antinociceptive and cardiovascular effects, 110, 219
- Interactions between responses mediated by activation of adenosine A<sub>2</sub> receptors and  $\alpha_1$ -adrenoceptors in the rabbit isolated aorta, 109, 394
  - Involvement of nitric oxide in the endothelium-dependent relaxation induced by hydrogen peroxide in the rabbit aorta, 110, 151
  - Pharmacological characterization of two distinct  $\alpha_1$ -adrenoceptor subtypes in rabbit thoracic aorta, 108, 1071
  - Pharmacological profile of valsartan: a potent, orally active, nonpeptide antagonist of the angiotensin II AT<sub>1</sub>-receptor subtype, 110, 761
  - Vascular mode of action of kinin B<sub>1</sub> receptors and development of a cellular model for the investigation of these receptors, 109, 1254
- Aorta, rat**, Cardiovascular effects of SCA40, a novel potassium channel opener, in rats, 110, 1031
- Dependence of endotoxin-induced vascular hyporeactivity on extracellular L-arginine, 108, 38
  - Differential changes of adrenoceptor- and muscarinic receptor-linked prostacyclin synthesis by the aorta and urinary bladder of the diabetic rat, 108, 1131
  - Differential effects of hydroxocobalamin on NO-mediated relaxations in rat aorta and anococcygeus muscle, 108, 3
  - Effects of ATP on cultured smooth muscle cells from rat aorta, 108, 638
  - Effects of the novel potassium channel opener, UR-8225, on contractile responses in rat isolated smooth muscle, 110, 1165
  - Effects of rubidium on responses to potassium channel openers in rat isolated aorta, 109, 925
  - Eicosanoid-induced Ca<sup>2+</sup> release and sustained contraction in Ca<sup>2+</sup>-free media are mediated by different signal transduction pathways in rat aorta, 110, 875
  - Endothelin-3-induced relaxation of rat thoracic aorta: a role for nitric oxide formation, 108, 1125
  - Evidence that depletion of internal calcium stores sensitive to noradrenaline elicits a contractile response dependent on extracellular calcium in rat aorta, 110, 861
  - Induction of endothelium-dependent relaxation in the rat aorta by IRL 1620, a novel and selective agonist at the endothelin ET<sub>B</sub> receptor, 109, 486
  - Interactions of nitric oxide synthase inhibitors and dexamethasone with  $\alpha$ -adrenoceptor-mediated responses in rat aorta, 109, 495
  - Investigation of the subtypes of  $\alpha_1$ -adrenoceptor mediating contractions of rat aorta, vas deferens and spleen, 109, 80
  - Investigations of the dual contractile/relaxant properties showed by antioquine in rat aorta, 109, 502
  - Pharmacological activity of (-)-discretamine, a novel vascular  $\alpha$ -adrenoceptor and 5-hydroxytryptamine receptor antagonist, isolated from *Fissistigma glaucescens*, 110, 882
  - Role of extracellular and intracellular sources of Ca<sup>2+</sup> in sarafotoxin S6b-induced contraction of strips of the rat aorta, 108, 30
  - Selective inhibition of basal but not agonist-stimulated activity of nitric oxide in rat aorta by N<sup>G</sup>-monomethyl-L-arginine, 110, 1003
  - Use of the endothelin antagonists BQ-123 and PD 142893 to reveal three endothelin receptors mediating smooth muscle contraction and the release of EDRF, 110, 777
- Apamin**, Modification by charybdotoxin and apamin of spontaneous electrical and mechanical activity of the circular smooth muscle of the guinea-pig stomach, 109, 661
- S-nitrosocysteine, but not sodium nitroprusside, produces apamin-sensitive hyperpolarization in rat gastric fundus, 109, 415
- Aprikalim**, Effects of P1060 and aprikalim on whole-cell currents in rat portal vein; inhibition by glibenclamide and phentolamine, 108, 991
- Effects of rubidium on responses to potassium channel openers in rat isolated aorta, 109, 925
- Arachidonic acid**, Effects of phospholipase A<sub>2</sub> inhibitors on coupling of  $\alpha_2$ -adrenoceptors to inwardly rectifying potassium currents in guinea-pig submucosal neurones, 110, 591
- Leukotriene D<sub>4</sub>- and prostaglandin F<sub>2 $\alpha$</sub> -induced airflow obstruction and airway plasma exudation in guinea-pig: role of thromboxane and its receptor, 110, 127
  - Nitric oxide and arachidonic acid modulation of calcium currents in postganglionic neurones of avian cultured ciliary ganglia, 109, 480
- Arginine analogues**, Inhibition of nitric oxide synthesis reveals non-cholinergic excitatory neurotransmission in the canine proximal colon, 109, 739
- Arginine vasopressin**, Chloride anion concentration as a determinant of renal vascular responsiveness to vasoconstrictor agents, 108, 106
- Arginine-rich basic polypeptides**, Effects of heparin on the vasodilator action of protamine in the rabbit mesenteric artery, 109, 1247
- D-Arginine**, Effects of L- and D-arginine and some related esters on the cytosolic mechanisms of  $\alpha$ -thrombin-induced human platelet activation, 110, 213
- D-Arginine esters**, Effects of L- and D-arginine and some related esters on the cytosolic mechanisms of  $\alpha$ -thrombin-induced human platelet activation, 110, 213
- L-Arginine**, Actions and interactions of N<sup>G</sup>-substituted analogues of L-arginine on NANC neurotransmission in the bovine retractor penis and rat anococcygeus muscles, 108, 242
- Bacterial endotoxin rapidly stimulates prolonged endothelium-dependent vasodilatation in the rat isolated perfused heart, 109, 987
  - Dependence of endotoxin-induced vascular hyporeactivity on extracellular L-arginine, 108, 38
  - Effects of L- and D-arginine and some related esters on the cytosolic mechanisms of  $\alpha$ -thrombin-induced human platelet activation, 110, 213
  - Impairment of pulmonary-artery endothelium-dependent relaxation in chronic obstructive lung disease is not due to dysfunction of

- endothelial cell membrane receptors nor to L-arginine deficiency, 109, 587
- Induction by endotoxin of nitric oxide synthase in the rat mesentery: lack of effect on action of vasoconstrictors, 109, 265
  - Inhibitors of nitric oxide synthetase prevent castor-oil-induced diarrhoea in the rat, 108, 861
  - Involvement of nitric oxide in the endothelium-dependent relaxation induced by hydrogen peroxide in the rabbit aorta, 110, 151
  - L-Arginine exerts a dual role in nociceptive processing in the brain: involvement of the kyotorphin-Met-enkephalin pathway and NO-cyclic GMP pathway, 109, 73
  - Modulation of adjuvant arthritis by endogenous nitric oxide, 110, 701
  - Modulation of vasodilatation to levcromakalim by hypoxia and EDRF in the rabbit isolated ear: a comparison with pinacidil, sodium nitroprusside and verapamil, 109, 386
  - Regional haemodynamic effects of angiotensin II (3-8) in conscious rats, 110, 159
  - Selective inhibition of basal but not agonist-stimulated activity of nitric oxide in rat aorta by  $N^G$ -monomethyl-L-arginine, 110, 1003
  - Selective inhibition by dexamethasone of induction of NO synthase, but not of induction of L-arginine transport, in activated murine macrophage J774 cells, 110, 1401
  - Support of renal blood flow after ischaemic-reperfusion injury by endogenous formation of nitric oxide and of cyclo-oxygenase vasodilator metabolites, 109, 188
- L-Arginine esters**, Effects of L- and D-arginine and some related esters on the cytosolic mechanisms of  $\alpha$ -thrombin-induced human platelet activation, 110, 213
- L-Arginine transport**, Selective inhibition by dexamethasone of induction of NO synthase, but not of induction of L-arginine transport, in activated murine macrophage J774 cells, 110, 1401
- Arrhythmias**, The antiarrhythmic effects of the nucleoside transporter inhibitor, R75231, in anaesthetized pigs, 109, 592
- Calcium antagonistic and antiarrhythmic actions of CPU-23, a substituted tetrahydroisoquinoline, 109, 113
  - Effects of KRN2391, nicorandil and diltiazem on the changes in the electrocardiogram caused by endothelin-1 in anaesthetized rats, 109, 679
  - Hoe 694, a new  $Na^+/H^+$  exchange inhibitor and its effects in cardiac ischaemia, 109, 562
  - Prevention by an inhibitor of the L-arginine-nitric oxide pathway of the antiarrhythmic effects of bradykinin in anaesthetized dogs, 110, 18
  - Protective effects of bradykinin on the ischaemic heart: implication of the  $B_1$  receptor, 108, 318
  - Selective  $I_K$  blockade as an antiarrhythmic mechanism: effects of UK66,914 on ischaemia and reperfusion arrhythmias in rat and rabbit hearts, 108, 139
- Arrhythmias, ischaemia-induced**, Effect of flosequinan on ischaemia-induced arrhythmias and on ventricular cyclic nucleotide content in the anaesthetized rat, 108, 1111
- Arrhythmias, ouabain-induced**, Centrally administered ouabain aggravates rapid-eye-movement-sleep-related bradyarrhythmias in freely moving rats, 110, 253
- Arterial bed, mesenteric**, Impaired sensory-motor nerve function in the isolated mesenteric arterial bed of streptozotocin-diabetic and ganglioside-treated streptozotocin-diabetic rats, 110, 1105
- Arteries, basilar, guinea-pig**, Lack of effect of sumatriptan and UK-14,304 on capsaicin-induced relaxation of guinea-pig isolated basilar artery, 108, 191
- Arteries, basilar, rabbit**, Differential effects of acetylcholine, nitric oxide and levcromakalim on smooth muscle membrane potential and tone in the rabbit basilar artery, 110, 651
- Arteries, caudal, rat**, 5-HT<sub>1B</sub> receptors mediate potent contractile responses to 5-HT in rat caudal artery, 109, 609
- Arteries, cerebral**, Endothelin receptors mediating contraction in goat cerebral arteries, 109, 826
- Endothelium-dependent noradrenaline-induced relaxation of rat isolated cerebral arteries: pharmacological characterization of receptor subtypes involved, 110, 1321
- Arteries, coronary**, Allopurinol and amlodipine improve coronary vasodilatation after myocardial ischaemia and reperfusion in anaesthetized dogs, 108, 342
- Cellular mechanism of U78517F in the protection of porcine coronary artery endothelial cells from oxygen radical-induced damage, 108, 1077
  - EDRF release from canine coronary artery by lectins, 110, 1473
  - Heterogeneity of muscarinic receptors in lamb isolated coronary resistance arteries, 109, 998
  - Interaction between the effects of 5-hydroxytryptamine and adrenaline on the growth of platelet thrombi in the coronary artery of the anaesthetized dog, 109, 405
  - Oestradiol inhibits smooth muscle cell proliferation of pig coronary artery, 109, 612
  - Redirection of arachidonic acid metabolism by ICI D1542: effects on thrombus formation in the coronary artery of the anaesthetized dog, 108, 901
  - Vasorelaxant mechanism of KRN2391 and nicorandil in porcine coronary arteries of different sizes, 109, 632
- Arteries, coronary, canine**, Endothelin-1 does not mediate hypoxic vasoconstriction in canine isolated blood vessels: effect of BQ-123, 108, 418
- Arteries, coronary, human**, Comparison of contractile responses to 5-hydroxytryptamine and sumatriptan in human isolated coronary artery: synergy with the thromboxane  $A_2$ -receptor agonist, U46619, 110, 360
- Evidence for heterogeneity of endothelin receptor distribution in human coronary artery, 110, 1201
- Arteries, ear**, Quantitative analysis of the agonist and antagonist actions of some ATP analogues at  $P_{2X}$ -purinoceptors in the rabbit ear artery, 108, 490
- Arteries, femoral**, Endothelin-1 does not mediate hypoxic vasoconstriction in canine isolated blood vessels: effect of BQ-123, 108, 418
- Arteries, gastric**, Nitric oxide-dependent and -independent hyperaemia due to calcitonin gene-related peptide in the rat stomach, 110, 404
- Arteries, guinea-pig pulmonary**, Endothelin receptor subtypes in human and guinea-pig pulmonary tissues, 110, 1175
- Arteries, human pulmonary**, Endothelin receptor subtypes in human and guinea-pig pulmonary tissues, 110, 1175
- Arteries, internal mammary**,  $\beta_1$ - and  $\beta_2$ -adrenoceptor-mediated relaxation in human internal mammary artery and saphenous vein: unchanged  $\beta$ - and  $\alpha$ -adrenoceptor responsiveness after chronic  $\beta_1$ -adrenoceptor blockade, 109, 1053
- Arteries, mesenteric**, Acetylcholine-induced relaxation in bovine isolated mesenteric arteries is suppressed by polymorphonuclear leukocytes, 109, 8
- Arteries, mesenteric, rat**, Pharmacological characterization of the dopamine receptor coupled to cyclic AMP formation expressed by rat mesenteric artery vascular smooth muscle cells in culture, 110, 681
- Arteries, pial**, Neurokinin-induced changes in pial artery diameter in the anaesthetized guinea-pig, 108, 146
- Arteries, pulmonary**, Aminoguanidine selectively inhibits inducible nitric oxide synthase, 110, 963
- Effects of atrial natriuretic peptide and nitroprusside on isolated pulmonary resistance and conduit arteries from rats with pulmonary hypertension, 110, 1363
  - Influences of the endothelium and hypoxia on  $\alpha_1$ - and  $\alpha_2$ -adrenoceptor-mediated responses in the rabbit isolated pulmonary artery, 108, 155
  - Influences of the endothelium and hypoxia on neurogenic transmission in the isolated pulmonary artery of the rabbit, 108, 150
  - A novel ET<sub>A</sub>-receptor antagonist, FR 139317, inhibits endothelin-induced contractions of guinea-pig pulmonary arteries, but not trachea, 108, 448
  - Sensory nerve-mediated relaxation of guinea-pig isolated pulmonary artery: prejunctional modulation by  $\alpha_2$ -adrenoceptor agonists but not sumatriptan, 109, 126
- Arteries, pulmonary, canine**, Endothelin-1 does not mediate hypoxic vasoconstriction in canine isolated blood vessels: effect of BQ-123, 108, 418
- Arteries, pulmonary, rabbit**, Use of the endothelin antagonists BQ-123 and PD 142893 to reveal three endothelin receptors mediating smooth muscle contraction and the release of EDRF, 110, 777
- Arteries, rat tail**, Dual contractile effects of ATP released by field stimulation revealed by effects of  $\alpha, \beta$ -methylene ATP and suramin in rat tail artery, 110, 1421
- The effects of  $\alpha$ -adrenoceptor agonists on intracellular  $Ca^{2+}$  levels in freshly dispersed single smooth muscle cells from rat tail artery, 109, 1272
  - Vasoconstrictor effects of various neuropeptide Y analogues on the rat tail artery in the presence of phenylephrine, 110, 1098

- Arteries, skin**, Role of the endothelium in the response to cholinergic stimulation of rabbit ear and femoral arteries during cooling, 109, 61
- Ascaris**, Levamisole-activated single-channel currents from muscle of the nematode parasite *Ascaris suum*, 108, 170
- Aspirin**, Acetylcholine-induced endothelium-independent relaxations in monkey isolated superior and inferior caval veins, 109, 992
- Different effects of aspirin on blood pressure of spontaneously hypertensive rats (SHR) with high and spontaneously low levels of blood pressure, 109, 900
- Asthma**, Attenuation of tachykinin-induced airflow obstruction and microvascular leakage in immature airways, 108, 23
- Bradykinin-induced airflow obstruction and airway plasma exudation: effects of drugs that inhibit acetylcholine, thromboxane A<sub>2</sub> or leukotrienes, 110, 657
  - Effect of passive sensitization on the mechanical activity of human isolated bronchial smooth muscle induced by substance P, neurokinin A and VIP, 109, 131
  - Effects of two novel tachykinin antagonists, FK224 and FK888, on neurogenic airway plasma exudation, bronchoconstriction and systemic hypotension in guinea-pigs *in vivo*, 108, 844
  - Leukotriene D<sub>4</sub> and prostaglandin F<sub>2α</sub>-induced airflow obstruction and airway plasma exudation in guinea-pig: role of thromboxane and its receptor, 110, 127
  - Role of leukotrienes in airway hyperresponsiveness in guinea-pigs, 108, 700
- Astrocytes**, Higher potency of RP 67580, in the mouse and the rat compared with other nonpeptide and peptide tachykinin NK<sub>1</sub> antagonists, 108, 793
- ATP**, Action of purine and pyrimidine nucleotides on the rat superior cervical ganglion, 110, 1297
- Activation of the phospholipase C pathway by ATP is mediated exclusively through nucleotide type P<sub>2</sub>-purinoceptors in C2C12 myotubes, 110, 747
  - ATP induced-relaxation in the mouse bladder smooth muscle, 108, 749
  - Blockade of adenosine receptors unmasks a stimulatory effect of ATP on cardiac contractility, 109, 1268
  - Characterization and ontogeny of P<sub>1</sub>-purinoceptors on rat vas deferens, 108, 754
  - Characterization of purinoceptors mediating depolarization of rat isolated vagus nerve, 110, 1055
  - Desensitization of the P<sub>2</sub>-purinoceptors on the rat colon muscularis mucosae, 110, 501
  - Dual contractile effects of ATP released by field stimulation revealed by effects of α,β-methylene ATP and suramin in rat tail artery, 110, 1421
  - The effects of ATP and α,β-methylene-ATP on cytosolic Ca<sup>2+</sup> level and force in rat isolated aorta, 110, 263
  - Effects of ATP on cultured smooth muscle cells from rat aorta, 108, 638
  - Effects of beraprost on the transmembrane potentials of guinea-pig ventricular muscles during normoxia and hypoxia-reoxygenation, 109, 1014
  - Effects of prolonged application of isoprenaline on intracellular free magnesium concentration in isolated heart of rat, 109, 443
  - Evidence for the involvement of both ATP and nitric oxide in non-adrenergic, non-cholinergic inhibitory neurotransmission in the rabbit portal vein, 109, 606
  - Evidence that a form of ATP uncomplexed with divalent cations is the ligand of P<sub>2y</sub> and nucleotide/P<sub>2u</sub> receptors on aortic endothelial cells, 109, 967
  - Extracellular ATP and UTP activation of phospholipase D is mediated by protein kinase C-ε in rat renal mesangial cells, 110, 847
  - Homologous and heterologous desensitization of histamine H<sub>1</sub>- and ATP-receptors in the smooth muscle cell line, DDT<sub>1</sub>MF-2: the role of protein kinase C, 110, 1449
  - Increases in intracellular calcium via activation of an endogenous P<sub>2</sub>-purinoceptor in cultured CHO-K1 cells, 110, 1305
  - Intracellular cross-talk between receptors coupled to phospholipase C via pertussis toxin-sensitive and insensitive G-proteins in DDT<sub>1</sub>MF-2 cells, 109, 719
  - Membrane current responses to externally-applied ATP in the longitudinal muscle of the chicken rectum, 110, 87
  - Post-receptor pathway of the ATP-induced relaxation in smooth muscle of the mouse vas deferens, 110, 326
  - Potentiation of miniature endplate potential frequency by ATP in *Xenopus* tadpoles, 108, 236
  - Selective inhibition of basal but not agonist-stimulated activity of nitric oxide in rat aorta by N<sup>G</sup>-monomethyl-L-arginine, 110, 1003
  - Stimulation of lumbar sympathetic nerves evokes contractions of cat colon circular muscle mediated by ATP and noradrenaline, 110, 1260
  - Vascular actions of purines in the foetal circulation of the human placenta, 110, 454
- ATPase, H<sup>+</sup>/K<sup>+</sup>**, Comparative study of the control of basal acid output from rodent isolated stomachs, 109, 941
- Na<sup>+</sup>-K<sup>+</sup>-ATPase pumps**, Effect of nafamostat mesilate on Na<sup>+</sup> and K<sup>+</sup> transport properties in the rabbit cortical collecting duct, 109, 673
- ATP analogues**, Quantitative analysis of the agonist and antagonist actions of some ATP analogues at P<sub>2X</sub>-purinoceptors in the rabbit ear artery, 108, 490
- ATP release**, Blockade by glibenclamide of the flow-evoked endothelial release of ATP that contributes to vasodilatation in the pulmonary vascular bed of the rat, 109, 466
- ATP responses**, Two distinct cytosolic calcium responses to extracellular ATP in rat parotid acinar cells, 108, 453
- ATP-dependent potassium channels**, Differential Class III and glibenclamide effects on action potential duration in guinea-pig papillary muscle during normoxia and hypoxia/ischaemia, 110, 531
- ATP-sensitive potassium channels**, Attenuation by phentolamine of hypoxia and levromakalim-induced abbreviation of the cardiac action potential, 110, 1222
- Cibenzoline inhibits diazoxide- and 2,4-dinitrophenol-activated ATP-sensitive K<sup>+</sup> channels in guinea-pig ventricular cells, 108, 549
  - A comparison of the inhibitory effects of sodium nitroprusside, pinacidil and nifedipine on pressor response to N<sup>G</sup>-nitro-L-arginine, 108, 398
  - Effects of P1060 and aprikalim on whole-cell currents in rat portal vein; inhibition by glibenclamide and phentolamine, 108, 991
  - Effects of potassium channel openers and their antagonists on rat locus coeruleus neurones, 109, 308
  - Effects of rubidium on responses to potassium channel openers in rat isolated aorta, 109, 925
  - Induction of a glibenclamide-sensitive K-current by modification of a delayed rectifier channel in rat portal vein and insulinoma cells, 110, 1280
  - Inhibition of the ATP-sensitive potassium channel by class I antiarrhythmic agent, cibenzoline, in rat pancreatic β-cells, 109, 1226
  - K channel activation by nucleotide diphosphates and its inhibition by glibenclamide in vascular smooth muscle cells, 110, 573
  - Levromakalim may induce a voltage-independent K-current in rat portal veins by modifying the gating properties of the delayed rectifier, 110, 1037
- Atria**, Antagonist effects of seglitide (MK 678) at somatostatin receptors in guinea-pig isolated right atria, 109, 898
- Characterization of the adenosine receptor mediating contraction in rat colonic muscularis mucosae, 110, 1255
  - Effects of direct renal arterial infusion of bufalin and ouabain in conscious sheep, 108, 627
- Atria, guinea-pig**, Characterization of the 5-hydroxytryptamine receptor mediating the positive inotropic response in guinea-pig isolated left atria, 109, 1192
- Selective inactivation of muscarinic M<sub>2</sub> and M<sub>3</sub> receptors in guinea-pig ileum and atria *in vitro*, 109, 946
- Atria, human**, Blockade of human atrial 5-HT<sub>4</sub> receptors by GR 113808, 110, 1172
- Atria, mouse**, Evidence that M<sub>1</sub> muscarinic receptors enhance noradrenaline release in mouse atria by activating protein kinase C, 110, 910
- Atria, piglet**, Characterization of the 5-HT<sub>4</sub> receptor mediating tachycardia in piglet isolated right atrium, 110, 1023
- Atria, rabbit**, Electropharmacological effects of berberine on canine cardiac Purkinje fibres and ventricular muscle and atrial muscle of the rabbit, 108, 534
- Atrial muscle**, Effects of lisinopril on electromechanical properties and membrane currents in guinea-pig cardiac preparations, 109, 873
- Atrial myocytes**, Antiarrhythmic agents act differently on the activation phase of the ACh-response in guinea-pig atrial myocytes, 108, 111
- Atrial natriuretic peptides**, Effects of atrial natriuretic peptide and nitroprusside on isolated pulmonary resistance and conduit arteries from rats with pulmonary hypertension, 110, 1363
- Effects of high calcium diet on arterial smooth muscle function and

- electrolyte balance in mineralocorticoid-salt hypertensive rats, 108, 948
- Muscarinic effect of atrial natriuretic peptide on rabbit airways, 110, 804
  - Quinapril treatment and arterial smooth muscle responses in spontaneously hypertensive rats, 108, 980
- Atrium**, Characterization of somatostatin receptors in guinea-pig isolated ileum, vas deferens and right atrium, 110, 1156
- Atropine**, Effects of cholinergic and 5-hydroxytryptamine<sub>2</sub> receptor antagonism on erythromycin-induced canine intestinal motility disruption and emesis, 108, 44
- Muscarinic effect of atrial natriuretic peptide on rabbit airways, 110, 804
- Autoradiography**, Development of a radioligand binding assay for 5-HT<sub>4</sub> receptors in guinea-pig and rat brain, 109, 618
- Differential localization of endothelin ET<sub>A</sub> and ET<sub>B</sub> binding sites in human placenta, 109, 544
  - Localization and characterization of neuropeptide Y binding sites in porcine and human colon, 108, 304
  - Repeated administration of desipramine and a GABA<sub>B</sub> receptor antagonist, CGP 36742, discretely up-regulates GABA<sub>B</sub> receptor binding sites in rat frontal cortex, 110, 724
- Avoidance conflict responding**, Similar effects of ethanol and flumazenil on acquisition of a shuttle-box avoidance response during withdrawal from chronic ethanol treatment, 110, 753
- Axonal currents**, Action of  $\alpha$ -dendrotoxin on K<sup>+</sup> currents in nerve terminal regions of axons in rat olfactory cortex, 109, 535
- Axons, unmyelinated**, Action of  $\alpha$ -dendrotoxin on K<sup>+</sup> currents in nerve terminal regions of axons in rat olfactory cortex, 109, 535

## B

- B-HT 933**, *In vivo* microdialysis of noradrenaline overflow: effects of  $\alpha$ -adrenoceptor agonists and antagonists measured by cumulative concentration-response curves, 109, 655
- Baclofen**, Antitussive effects of GABA<sub>B</sub> agonists in the cat and guinea-pig, 110, 491
- Bicuculline-resistant paired-pulse inhibition in the rat hippocampal slice, 109, 1164
  - Differential effects of K<sup>+</sup> channel blockers on antinociception induced by  $\alpha_2$ -adrenoceptor, GABA<sub>B</sub> and  $\kappa$ -opioid receptor agonists, 110, 1049
  - Effects of carbamazepine and baclofen on 4-aminopyridine-induced epileptic activity in rat hippocampal slices, 108, 819
  - *In vivo* release of dopamine from rat striatum, substantia nigra and prefrontal cortex: differential modulation by baclofen, 109, 814
  - Solubilization and characterization of GABA<sub>A</sub> receptor binding sites from porcine brain synaptic membranes, 110, 1291
- Bacterial lipopolysaccharides**, Bacterial endotoxin rapidly stimulates prolonged endothelium-dependent vasodilatation in the rat isolated perfused heart, 109, 987
- Baroreceptor reflex**, Protection by nicorandil against the dysfunction of the central vagal baroreflex system following transient global cerebral ischaemia in dogs, 109, 1263
- Benign prostatic hypertrophy**, Alfuzosin, a selective  $\alpha_1$ -adrenoceptor antagonist in the lower urinary tract, 109, 1282
- Benoxathian**, Investigation of the subtypes of  $\alpha_1$ -adrenoceptor mediating contractions of rat aorta, vas deferens and spleen, 109, 80
- Benzamides**, Characterization of the 5-HT<sub>4</sub> receptor mediating tachycardia in piglet isolated right atrium, 110, 1023
- Benzimidazolones**, Characterization of the 5-HT<sub>4</sub> receptor mediating tachycardia in piglet isolated right atrium, 110, 1023
- The guinea-pig distal colon—a sensitive preparation for the investigation of 5-HT<sub>4</sub> receptor-mediated contractions, 110, 1593
- Benzodiazepines**, Attenuation of reperfusion hyperalgesia in the rat by systemic administration of benzodiazepines, 110, 1067
- A comparison of rat brain amino acid and monoamine content in diazepam withdrawal and after exposure to a phobic stimulus, 109, 171
  - Counteraction of the rapid tolerance to 8-OH-DPAT-induced corticosterone secretion in rats by activation of the GABA<sub>A</sub> receptor-chloride channel complex, 109, 207
  - Differential properties of type I and type II benzodiazepine receptors in mammalian CNS neurones, 109, 819
  - The influence of the  $\gamma_2$  subunit on the modulation of responses to GABA<sub>A</sub> receptor activation, 108, 711
- Benzodiazepine partial agonists**, Differential properties of type I and type II benzodiazepine receptors in mammalian CNS neurones, 109, 819
- Benzodiazepine receptors, peripheral type**, Changes in [<sup>3</sup>H]-PK 11195 and [<sup>3</sup>H]-8-OH-DPAT binding following forebrain ischaemia in the gerbil, 109, 437
- Inhibition by the adenosine analogue, (*R*)-N<sup>6</sup>-phenylisopropyladenosine, of kainic acid neurotoxicity in rat hippocampus after systemic administration, 109, 316
- Benzodiazepine sites**, Differential affinity of dihydroimidazoquinoxalines and diimidazoquinazolines to the  $\alpha 1\beta 2\gamma 2$  and  $\alpha 6\beta 2\gamma 2$  subtypes of cloned GABA<sub>A</sub> receptors, 110, 677
- Benzoylbenzoyl ATP**, Two distinct cytosolic calcium responses to extracellular ATP in rat parotid acinar cells, 108, 453
- Beraprost**, Effects of beraprost on the transmembrane potentials of guinea-pig ventricular muscles during normoxia and hypoxia-reoxygenation, 109, 1014
- Berberine**, Electropharmacological effects of berberine on canine cardiac Purkinje fibres and ventricular muscle and atrial muscle of the rabbit, 108, 534
- Betamethasone**, Investigations into the mechanism of vasoconstrictor action of the topical steroid betamethasone-17-valerate in the rat, 108, 544
- Betaxolol**, The affinity of betaxolol, a  $\beta_1$ -adrenoceptor-selective blocking agent, for  $\beta$ -adrenoceptors in the bovine trachea and heart, 108, 484
- BIBR 277**, Pharmacological characterization of the novel nonpeptide angiotensin II receptor antagonist, BIBR 277, 110, 245
- Bicuculline**, Bicuculline-resistant paired-pulse inhibition in the rat hippocampal slice, 109, 1164
- Binding**, The affinity of betaxolol, a  $\beta_1$ -adrenoceptor-selective blocking agent, for  $\beta$ -adrenoceptors in the bovine trachea and heart, 108, 484
- Binding of angiotensin antagonists to rat liver and brain membranes measured *ex vivo*, 109, 760
  - Higher potency of RP 67580, in the mouse and the rat compared with other nonpeptide and peptide tachykinin NK<sub>1</sub> antagonists, 108, 793
  - Inhibition by the adenosine analogue, (*R*)-N<sup>6</sup>-phenylisopropyladenosine, of kainic acid neurotoxicity in rat hippocampus after systemic administration, 109, 316
  - The thermodynamics of antagonist binding to rat muscarinic M<sub>2</sub> receptors: antimuscarinics of the pridinol, sila-pridinol, diphenidol and sila-diphenidol type, 109, 360
- Biotransformation**, Human liver microsomal metabolism of the enantiomers of warfarin and acenocoumarol: P450 isozyme diversity determines the differences in their pharmacokinetics, 110, 482
- Bladder, guinea-pig**, Tachykinin receptors of the NK<sub>2</sub> type involved in the acetylcholine release by nicotine in guinea-pig bladder, 108, 759
- Bladder, rabbit**, Effect of  $\omega$ -conotoxin on adrenergic, cholinergic and NANC neurotransmission in the rabbit urethra and detrusor, 110, 1285
- Bladder, rat**, Effects of LY274614, a competitive NMDA receptor antagonist, on the micturition reflex in the urethane-anaesthetized rat, 110, 77
- Blood**, Effects of heparin on the vasodilator action of protamine in the rabbit mesenteric artery, 109, 1247
- Blood flow**, Effects of N<sup>G</sup>-nitro-L-arginine methyl ester on the cardiovascular system of the anaesthetized rabbit and on the cardiovascular response to thyrotropin-releasing hormone, 109, 1219
- Nitric oxide-dependent and -independent hyperaemia due to calcitonin gene-related peptide in the rat stomach, 110, 404
  - Sympathetic innervation and  $\alpha$ -adrenoceptor profile of blood vessels in the posterior region of the rabbit knee joint, 108, 79
- Blood flow, cerebral**, Effects of sumatriptan on the cerebral intraparenchymal microcirculation in the cat, 110, 1445
- Blood flow, skin**, Effect of a calcitonin gene-related peptide antagonist (CGRP<sub>1-37}</sub>) on skin vasodilatation and oedema induced by stimulation of the rat saphenous nerve, 110, 772
- Investigations into the mechanism of vasoconstrictor action of the topical steroid betamethasone-17-valerate in the rat, 108, 544
- Blood perfused mesentery**, Mechanisms of vasodilatation in pregnancy: studies of the role of prostaglandins and nitric-oxide in changes of vascular reactivity in the *in situ* blood perfused mesentery of pregnant rats, 109, 322
- Blood pressure**, 7-Nitro indazole, an inhibitor of nitric oxide synthase, exhibits anti-nociceptive activity in the mouse without increasing

- blood pressure, 108, 296
- Calcium antagonistic and antiarrhythmic actions of CPU-23, a substituted tetrahydroisoquinoline, 109, 113
  - Chronic kinin receptor blockade induces hypertension in deoxycorticosterone-treated rats, 108, 651
  - Comparison of the airways relaxant and hypotensive potencies of the potassium channel activators BRL 55834 and levromakalim (BRL 38227) *in vivo* in guinea-pigs and rats, 109, 1133
  - Comparison of the cardiovascular and neural activity of endothelin-1, -2, -3 and respective proendothelins: effects of phosphoramidon and thiorphan, 110, 331
  - A comparison of the inhibitory effects of sodium nitroprusside, pinacidil and nifedipine on pressor response to *N*<sup>G</sup>-nitro-L-arginine, 108, 398
  - Different effects of aspirin on blood pressure of spontaneously hypertensive rats (SHR) with high and spontaneously low levels of blood pressure, 109, 900
  - Effects of dicentrine on haemodynamic, plasma lipid, lipoprotein level and vascular reactivity in hyperlipidaemic rats, 108, 1055
  - Effects of high calcium diet on arterial smooth muscle function and electrolyte balance in mineralocorticoid-salt hypertensive rats, 108, 948
  - Effects of *N*<sup>G</sup>-nitro-L-arginine methyl ester on the cardiovascular system of the anaesthetized rabbit and on the cardiovascular response to thyrotropin-releasing hormone, 109, 1219
  - Functional evidence for multiple receptor activation by k-ligands in the inhibition of spinal nociceptive reflexes in the rat, 110, 303
  - Inhibitory actions of diphenyleneiodonium on endothelium-dependent vasodilatations *in vitro* and *in vivo*, 110, 1232
  - Mediation by B<sub>1</sub> and B<sub>2</sub> receptors of vasodepressor responses to intravenously administered kinins in anaesthetized dogs, 110, 71
  - Mediation via different receptors of the vasoconstrictor effects of endothelins and sarafotoxins in the systemic circulation and renal vasculature of the anaesthetized rat, 108, 776
  - Quinapril treatment and arterial smooth muscle responses in spontaneously hypertensive rats, 108, 980
  - Relaxing actions of corticotropin-releasing factor on rat resistance arteries, 108, 941
  - Vascular responses to endothelin-1 following inhibition of nitric oxide synthesis in the conscious rat, 110, 1213
- Blood vessels, cerebral**, Cerebral blood flow and cerebrovascular reactivity after inhibition of nitric oxide synthesis in conscious goats, 110, 428
- The effect of defibrotide on thromboembolism in the pulmonary vasculature of mice and rabbits and in the cerebral vasculature of rabbits, 110, 1565
- Blood-brain barrier**, Inhibition by sumatriptan of central trigeminal neurones only after blood-brain barrier disruption, 109, 788
- Bombesin**, Depression of primary afferent-evoked responses by GR71251 in the isolated spinal cord of the neonatal rat, 110, 1142
- BQ-123**, Characterization of receptors for endothelins in the perfused arterial and venous mesenteric vasculatures of the rat, 110, 687
- Differential effects of BQ-123 against endothelin-1 and endothelin-3 on the rat vas deferens: evidence for an atypical endothelin receptor, 109, 736
  - Endothelin receptor subtypes in human and guinea-pig pulmonary tissues, 110, 1175
  - Endothelin receptors mediating contraction in goat cerebral arteries, 109, 826
  - Endothelin-1 does not mediate hypoxic vasoconstriction in canine isolated blood vessels: effect of BQ-123, 108, 418
  - Endothelin-1 (ET-1)-induced contraction in rat isolated trachea: involvement of ET<sub>A</sub> and ET<sub>B</sub> receptors and multiple signal transduction systems, 110, 435
  - Enhancement by endothelin-1 of microvascular permeability via the activation of ET<sub>A</sub> receptors, 109, 880
  - Evidence for heterogeneity of endothelin receptor distribution in human coronary artery, 110, 1201
  - Incomplete inhibition of the pressor effects of endothelin-1 and related peptides in the anaesthetized rat with BQ-123 provides evidence for more than one vasoconstrictor receptor, 108, 557
  - Mechanism of rat uterine smooth muscle contraction induced by endothelin-1, 110, 1437
  - Mediation via different receptors of the vasoconstrictor effects of endothelins and sarafotoxins in the systemic circulation and renal vasculature of the anaesthetized rat, 108, 776
- Use of the endothelin antagonists BQ-123 and PD 142893 to reveal three endothelin receptors mediating smooth muscle contraction and the release of EDRF, 110, 777
- BQ-3020**, Characterization of receptors for endothelins in the perfused arterial and venous mesenteric vasculatures of the rat, 110, 687
- Mechanism of rat uterine smooth muscle contraction induced by endothelin-1, 110, 1437
- Bradycardia**, A facilitatory effect of anti-angiotensin drugs on vagal bradycardia in the pithed rat and guinea-pig, 110, 289
- Bradycardic agents**, Inhibitory actions of ZENECA ZD7288 on whole-cell hyperpolarization activated inward current (*I<sub>h</sub>*) in guinea-pig dissociated sinoatrial node cells, 110, 343
- Bradykinin**, The action of Hoe 140 on the bradykinin-induced splenic pressor reflex of the anaesthetized cat, 110, 1317
- Activation by *Phoneutria nigriventer* (armed spider) venom of tissue kallikrein-kininogen-kinin system in rabbit skin *in vivo*, 109, 539
  - Bacterial endotoxin rapidly stimulates prolonged endothelium-dependent vasodilatation in the rat isolated perfused heart, 109, 987
  - Bradykinin initiates cytokine-mediated inflammatory hyperalgesia, 110, 1227
  - Bradykinin-induced airflow obstruction and airway plasma exudation: effects of drugs that inhibit acetylcholine, thromboxane A<sub>2</sub> or leukotrienes, 110, 657
  - Bradykinin-induced release of PGI<sub>2</sub> from aortic endothelial cell lines: responses mediated selectively by Ca<sup>2+</sup> ions or a staurosporine-sensitive kinase, 110, 411
  - Cardiovascular effects of intrathecally administered bradykinin in the rat: characterization of receptors with antagonists, 110, 1369
  - Characteristics of the bradykinin-induced changes in intracellular calcium ion concentration of single bovine tracheal smooth muscle cells, 110, 29
  - Chronic kinin receptor blockade induces hypertension in deoxycorticosterone-treated rats, 108, 651
  - Differential effects of B<sub>2</sub> receptor antagonists upon bradykinin-stimulated phospholipase C and D in guinea-pig cultured tracheal smooth muscle, 110, 477
  - Differential effects of captopril on regional haemodynamic responses to angiotensin I and bradykinin in conscious rats, 108, 769
  - Effect of bradykinin and prostaglandins on the release of calcitonin gene-related peptide-like immunoreactivity from the rat spinal cord *in vitro*, 108, 185
  - The effect of *N*<sup>G</sup>-nitro-L-arginine methyl ester upon basal blood flow and endothelium-dependent vasodilatation in the dog hindlimb, 108, 763
  - The effect of platelet-activating factor on the responsiveness of the human nasal airway, 110, 113
  - Induction of bradykinin B<sub>1</sub> receptors *in vivo* in a model of ultra-violet irradiation-induced thermal hyperalgesia in the rat, 110, 1441
  - [Leu<sup>8</sup>]des-Arg<sup>9</sup>-bradykinin inhibits the angiogenic effect of bradykinin and interleukin-1 in rats, 109, 14
  - Mediation by B<sub>1</sub> and B<sub>2</sub> receptors of vasodepressor responses to intravenously administered kinins in anaesthetized dogs, 110, 71
  - Prevention by an inhibitor of the L-arginine-nitric oxide pathway of the antiarrhythmic effects of bradykinin in anaesthetized dogs, 110, 18
  - Protective effects of bradykinin on the ischaemic heart: implication of the B<sub>1</sub> receptor, 108, 318
  - Ramiprilat increases bradykinin outflow from isolated hearts of rat, 108, 293
  - Tachykinin receptors mediating responses to sensory nerve stimulation and exogenous tachykinins and analogues in the rabbit isolated iris sphincter, 109, 1008
- Bradykinin antagonists**, The action of Hoe 140 on the bradykinin-induced splenic pressor reflex of the anaesthetized cat, 110, 1317
- Cardiovascular effects of intrathecally administered bradykinin in the rat: characterization of receptors with antagonists, 110, 1369
  - Differential sensitivity of antinociceptive assays to the bradykinin antagonist Hoe 140, 108, 209
  - Pathological events in experimental acute pancreatitis prevented by the bradykinin antagonist, Hoe 140, 108, 405
- Bradykinin receptors**, Mediation by B<sub>1</sub> and B<sub>2</sub> receptors of vasodepressor responses to intravenously administered kinins in anaesthetized dogs, 110, 71
- Bradykinin receptor antagonists**, Differential effects of B<sub>2</sub> receptor antagonists upon bradykinin-stimulated phospholipase C and D in guinea-pig cultured tracheal smooth muscle, 110, 477

- Mediation by B<sub>1</sub> and B<sub>2</sub> receptors of vasodepressor responses to intravenously administered kinins in anaesthetized dogs, 110, 71
- Bradykinin receptor subtypes**, Cardiovascular effects of intrathecally administered bradykinin in the rat: characterization of receptors with antagonists, 110, 1369
- Bradykinin B<sub>1</sub> receptors**, Induction of bradykinin B<sub>1</sub> receptors *in vivo* in a model of ultra-violet irradiation-induced thermal hyperalgesia in the rat, 110, 1441
- Protective effects of bradykinin on the ischaemic heart: implication of the B<sub>1</sub> receptor, 108, 318
- Vascular mode of action of kinin B<sub>1</sub> receptors and development of a cellular model for the investigation of these receptors, 109, 1254
- [Leu<sup>8</sup>]des-Arg<sup>9</sup>-bradykinin inhibits the angiogenic effect of bradykinin and interleukin-1 in rats, 109, 14
- Bradykinin B<sub>1</sub> receptor antagonists**, Evidence for participation of B<sub>1</sub> and B<sub>2</sub> kinin receptors in formalin-induced nociceptive response in the mouse, 110, 193
- Bradykinin B<sub>2</sub> receptors**, The action of Hoe 140 on the bradykinin-induced splenic pressor reflex of the anaesthetized cat, 110, 1317
- Characteristics of the bradykinin-induced changes in intracellular calcium ion concentration of single bovine tracheal smooth muscle cells, 110, 29
- Differential sensitivity of antinociceptive assays to the bradykinin antagonist Hoe 140, 108, 209
- Effect of bradykinin and prostaglandins on the release of calcitonin gene-related peptide-like immunoreactivity from the rat spinal cord *in vitro*, 108, 185
- Bradykinin B<sub>2</sub> receptor antagonists**, Evidence for participation of B<sub>1</sub> and B<sub>2</sub> kinin receptors in formalin-induced nociceptive response in the mouse, 110, 193
- [Leu<sup>8</sup>]des-Arg<sup>9</sup>-bradykinin inhibits the angiogenic effect of bradykinin and interleukin-1 in rats, 109, 14
- Bradykinin B<sub>2</sub> receptors**, Differential effects of B<sub>2</sub> receptor antagonists upon bradykinin-stimulated phospholipase C and D in guinea-pig cultured tracheal smooth muscle, 110, 477
- des-Arg<sup>9</sup>-Bradykinin**, Vascular mode of action of kinin B<sub>1</sub> receptors and development of a cellular model for the investigation of these receptors, 109, 1254
- Protective effects of bradykinin on the ischaemic heart: implication of the B<sub>1</sub> receptor, 108, 318
- Lys [Leu<sup>8</sup>] Des-Arg<sup>9</sup>-Bradykinin**, Protective effects of bradykinin on the ischaemic heart: implication of the B<sub>1</sub> receptor, 108, 318
- Brain**, Effects of N<sup>G</sup>-nitro-L-arginine methyl ester on the cardiovascular system of the anaesthetized rabbit and on the cardiovascular response to thyrotropin-releasing hormone, 109, 1219
- Functional characterization of a 5-HT<sub>1</sub> receptor which modulates the release of 5-HT in the guinea-pig brain, 108, 13
- Identification of a novel calcium antagonist binding site in rat brain by SR 33557, 108, 93
- Postnatal changes in N-methyl-D-aspartate receptor binding and stimulation by glutamate and glycine of [<sup>3</sup>H]-MK-801 binding in human temporal cortex, 108, 1143
- Brain ischaemia**, Changes in [<sup>3</sup>H]-PK 11195 and [<sup>3</sup>H]-8-OH-DPAT binding following forebrain ischaemia in the gerbil, 109, 437
- Brain membranes**, On the high affinity binding site for [<sup>3</sup>H]-1,3-dipropyl-8-cyclopentylxanthine in frog brain membranes, 109, 518
- Brain natriuretic peptides**, Effect of endopeptidase-24.11 inhibition and of atrial natriuretic peptide clearance receptor ligand on the response to rat brain natriuretic peptide in the conscious rat, 110, 350
- Brain slices**, Electrophysiological actions of alfentanil: intracellular studies in the rat locus coeruleus neurones, 110, 903
- Brain, bovine**, [<sup>3</sup>H]-5-carboxamidotryptamine labels 5-HT<sub>1D</sub> binding sites in bovine substantia nigra, 109, 1206
- Brain, mouse**, Pharmacology of a cloned potassium channel from mouse brain (MK-1) expressed in CHO cells: effects of blockers and an 'inactivation peptide', 109, 725
- Brain, pig**, Solubilization and characterization of GABA<sub>B</sub> receptor binding sites from porcine brain synaptic membranes, 110, 1291
- Brain, rabbit**, Inotropic glutamate receptor types leading to adenosine-mediated inhibition of electrically evoked [<sup>3</sup>H]-noradrenaline release in rabbit brain cortex slices, 110, 1544
- Brain, rat**, 5-HT loss in rat brain following 3,4-methylenedioxy-methamphetamine (MDMA), *p*-chloroamphetamine and fenfluramine administration and effects of chlormethiazole and dizocilpine, 108, 583
- Central α<sub>2</sub>-autoreceptors: agonist dissociation constants and recovery after irreversible inactivation, 108, 370
- Chronic treatment with the monoamine oxidase inhibitors clorgyline and pargyline down-regulates non-adrenoceptor [<sup>3</sup>H]-idazoxan binding sites in the rat brain, 108, 597
- A comparison of rat brain amino acid and monoamine content in diazepam withdrawal and after exposure to a phobic stimulus, 109, 171
- Inhibition of [<sup>3</sup>H]-(+)-MK 801 binding to rat brain sections by CPP and 7-chlorokynurenic acid: an autoradiographic analysis, 108, 577
- Repeated administration of desipramine and a GABA<sub>B</sub> receptor antagonist, CGP 36742, discretely up-regulates GABA<sub>B</sub> receptor binding sites in rat frontal cortex, 110, 724
- Brainstem**, Effects of 5-HT-receptor and α<sub>2</sub>-adrenoceptor ligands on the haemodynamic response to acute central hypovolaemia in conscious rabbits, 109, 37
- Relevance of the use of [<sup>3</sup>H]-clonidine to identify imidazoline receptors in the rabbit brainstem, 110, 1537
- Brattleboro rats**, Comparison of the regional haemodynamic effects of the AT<sub>1</sub>-receptor antagonists, losartan and EXP 3174, in water-deprived Brattleboro rats, 108, 684
- Effects of chronic treatment with nitric oxide synthase inhibitors on regional haemodynamic responses to vasodilators in conscious Brattleboro rats, 109, 222
- Breast cancer**, A current view of tamoxifen for the treatment and prevention of breast cancer, 110, 507
- BRL 37344**, The β-adrenoceptors mediating relaxation of rat oesophageal muscularis mucosae are predominantly of the β<sub>2</sub>-, but also of the β<sub>2</sub>-subtype, 110, 442
- Effects of two β<sub>2</sub>-adrenoceptor agonists, SR 58611A and BRL 37344, and of salbutamol on cholinergic and NANC neural contraction in guinea-pig main bronchi *in vitro*, 110, 1311
- Evidence for a functional β<sub>2</sub>-adrenoceptor in man, 110, 929
- Zeneca ZD7114 acts as an antagonist at β<sub>2</sub>-adrenoceptors in rat isolated ileum, 110, 1375
- BRL 38227**, Partial inhibition by epithelium of tracheal smooth muscle relaxation induced by the potassium channel activator, BRL 38227, 110, 139
- BRL 55834**, Comparison of the airways relaxant and hypotensive potencies of the potassium channel activators BRL 55834 and levromakalim (BRL 38227) *in vivo* in guinea-pigs and rats, 109, 1133
- Bronchi, bovine**, Stimulated eosinophils and proteinases augment the transepithelial flux of albumin in bovine bronchial mucosa, 110, 840
- Bronchi, guinea-pig**, Effects of two β<sub>2</sub>-adrenoceptor agonists, SR 58611A and BRL 37344, and of salbutamol on cholinergic and NANC neural contraction in guinea-pig main bronchi *in vitro*, 110, 1311
- Non-adrenergic, non-cholinergic neural activation in guinea-pig bronchi: powerful and frequency-dependent stabilizing effect on tone, 109, 845
- Bronchi, human**, Degradation of acetylcholine in human airways: role of butyrylcholinesterase, 108, 914
- Effects of β-adrenoceptor agonists in human bronchial smooth muscle, 110, 1112
- Endothelin receptor subtypes in human and guinea-pig pulmonary tissues, 110, 1175
- Endothelin-induced contraction and mediator release in human bronchus, 110, 392
- Investigation into the role of phosphodiesterase IV in bronchorelaxation, including studies with human bronchus, 108, 562
- Bronchi, isolated**, Enhancement of airway reactivity to histamine by isoprenaline and related β-adrenoceptor agonists in the guinea-pig, 108, 1016
- Bronchial circulation**, Pulmonary effects of endogenous and exogenous nitric oxide in the pig: relation to cigarette smoke inhalation, 110, 739
- Bronchial hyperreactivity**, Inhibition by rapamycin of leukocyte migration and bronchial hyperreactivity induced by injection of Sephadex beads to guinea-pigs, 110, 1381
- Bronchial responsiveness**, A comparison of the effects of polyarginine and stimulated eosinophils on the responsiveness of the bovine isovolumic bronchial segment preparation, 109, 553
- Bronchial segment preparation**, A comparison of the effects of polyarginine and stimulated eosinophils on the responsiveness of the bovine isovolumic bronchial segment preparation, 109, 553
- Bronchioles, guinea-pig**, Bronchodilatation of guinea-pig perfused

- bronchioles induced by the  $H_3$ -receptor for histamine: role of epithelium, 109, 960
- Bronchoconstriction**, Bradykinin-induced airflow obstruction and airway plasma exudation: effects of drugs that inhibit acetylcholine, thromboxane  $A_2$  or leukotrienes, 110, 657
- Effects of two novel tachykinin antagonists, FK224 and FK888, on neurogenic airway plasma exudation, bronchoconstriction and systemic hypotension in guinea-pigs *in vivo*, 108, 844
  - Postjunctional inhibitory effect of the  $NK_2$  receptor antagonist, SR 48968, on sensory NANC bronchoconstriction in the guinea-pig, 109, 765
  - Regulation of NANC neural bronchoconstriction *in vivo* in the guinea-pig: involvement of nitric oxide, 108, 228
- Bronchodilatation**, Pulmonary effects of endogenous and exogenous nitric oxide in the pig: relation to cigarette smoke inhalation, 110, 739
- Bronchodilators**, Comparison of the airways relaxant and hypotensive potencies of the potassium channel activators BRL 55834 and levcromakalim (BRL 38227) *in vivo* in guinea-pigs and rats, 109, 1133
- Bronchorelaxation**, Investigation into the role of phosphodiesterase IV in bronchorelaxation, including studies with human bronchus, 108, 562
- Brown adipose tissue**, Ligand binding properties of putative  $\beta_3$ -adrenoceptors compared in brown adipose tissue and in skeletal muscle membranes, 109, 1157
- Brush border membrane**, Enteral absorption of octreotide: absorption enhancement by polyoxyethylene-24-cholesterol ether, 108, 298
- Bufanolides**, Effects of direct renal arterial infusion of bufalin and ouabain in conscious sheep, 108, 627
- Bundle of His**, Kinetics of rate-dependent slowing of intraventricular conduction by the class Ib antiarrhythmic agent tocainide *in vivo*, 110, 145
- Buspirone**, The effects of  $\alpha_2$ -adrenoceptor antagonists on the inhibition of 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane (DOI)-induced head shakes by 5-HT $_{1A}$  receptor agonists in the mouse, 109, 1046
- Butanedione monoxime**, Levromakalim may induce a voltage-independent K-current in rat portal veins by modifying the gating properties of the delayed rectifier, 110, 1037
- 2,6-di-*t*-Butyl-4-methylphenol (BHT)**, Calcium antagonist and antiperoxidant properties of some hindered phenols, 110, 369
- 2-*t*-Butyl-4-methoxyphenol (BHA)**, Calcium antagonist and antiperoxidant properties of some hindered phenols, 110, 369
- Butyrylcholine**, Degradation of acetylcholine in human airways: role of butyrylcholinesterase, 108, 914
- Butyrylcholinesterase**, Degradation of acetylcholine in human airways: role of butyrylcholinesterase, 108, 914
- BW755C**, Role of oxygen radicals and arachidonic acid metabolites in the reverse passive Arthus reaction and carrageenin paw oedema in the rat, 110, 896
- BWA4c**, Effects of vasoactive intestinal polypeptide on antigen-induced bronchoconstriction and thromboxane release in guinea-pig lung, 109, 243
- ## C
- C-fibres**, A comparison of the actions of agonists and antagonists at non-NMDA receptors of C fibres and motoneurons of the immature rat spinal cord *in vitro*, 108, 179
- The effects of cholinergic agonists and antagonists on C-fibre evoked responses in the substantia gelatinosa of neonatal rat spinal cord slices, 110, 1061
  - Effects of ruthenium red and capsazepine on C-fibres in the rabbit iris, 110, 1073
- c-fos**, Involvement of cholecystokinin receptor types in pathways controlling oxytocin secretion, 110, 378
- CA3 pyramidal cells**, Effects of carbamazepine and baclofen on 4-aminopyridine-induced epileptic activity in rat hippocampal slices, 108, 819
- Caco-2 cells**, Active secretion of the fluoroquinolone ciprofloxacin by human intestinal epithelial Caco-2 cell layers, 108, 575
- Transport of celiprolol across human intestinal epithelial (Caco-2) cells: mediation of secretion by multiple transporters including P-glycoprotein, 110, 1009
- Caerulein**, Pathological events in experimental acute pancreatitis prevented by the bradykinin antagonist, Hoe 140, 108, 405
- Caffeine**, Caffeine and related compounds block inhibitory amino acid-gated  $Cl^-$  currents in freshly dissociated rat hippocampal neurones, 109, 459
- Caffeine-induced decreases in the inward rectifier potassium and the inward calcium currents in rat ventricular myocytes, 109, 895
  - $Mg^{2+}$  and caffeine-induced intracellular  $Ca^{2+}$  release in human vascular endothelial cells, 109, 291
- Calcitonin gene-related peptide (CGRP)**, Capsaicin-induced relaxation in the rat isolated external urethral sphincter: characterization of the vanilloid receptor and mediation by CGRP, 110, 989
- Effect of a calcitonin gene-related peptide antagonist (CGRP $_{8-37}$ ) on skin vasodilatation and oedema induced by stimulation of the rat saphenous nerve, 110, 772
  - Effect of capsazepine on the release of calcitonin gene-related peptide-like immunoreactivity (CGRP-LI) induced by low pH, capsaicin and potassium in rat soleus muscle, 110, 609
  - Effects of interactions of naturally-occurring neuropeptides on blood flow in the rat knee joint, 108, 694
  - Enhancement by calcitonin gene-related peptide of nicotinic receptor-operated noncontractile  $Ca^{2+}$  mobilization at the mouse neuromuscular junction, 110, 639
  - Lack of effect of sumatriptan and UK-14,304 on capsaicin-induced relaxation of guinea-pig isolated basilar artery, 108, 191
  - The modulation of inflammatory oedema by calcitonin gene-related peptide, 108, 705
  - Neurokinin-induced changes in pial artery diameter in the anaesthetized guinea-pig, 108, 146
  - Neuronal and endothelium-derived mediators in the modulation of the gastric microcirculation: integrity in the balance, 110, 3
  - Nitric oxide-dependent and -independent hyperaemia due to calcitonin gene-related peptide in the rat stomach, 110, 404
  - The paradoxical vascular interactions between endothelin-1 and calcitonin gene-related peptide in the rat gastric mucosal microcirculation, 110, 496
  - Postjunctional inhibitory effect of the  $NK_2$  receptor antagonist, SR 48968, on sensory NANC bronchoconstriction in the guinea-pig, 109, 765
  - Profile of capsaicin-induced mouse ear oedema as neurogenic inflammatory model: comparison with arachidonic acid-induced ear oedema, 110, 1614
  - Sensory nerve-mediated relaxation of guinea-pig isolated pulmonary artery: prejunctional modulation by  $\alpha_2$ -adrenoceptor agonists but not sumatriptan, 109, 126
- Calcitonin gene-related peptide (CGRP) release**, Effects of capsaicin and 5-HT $_3$  antagonists on 5-hydroxytryptamine-evoked release of calcitonin gene-related peptide in the guinea-pig heart, 108, 431
- Calcium**, Activation by calcium alone of chloride secretion in T $_{84}$  epithelial cells, 109, 510
- Bradykinin-induced release of PGI $_2$  from aortic endothelial cell lines: responses mediated selectively by  $Ca^{2+}$  ions or a staurosporine-sensitive kinase, 110, 411
  - Calcium antagonistic and antiarrhythmic actions of CPU-23, a substituted tetrahydroisoquinoline, 109, 113
  - Cellular mechanism of U78517F in the protection of porcine coronary artery endothelial cells from oxygen radical-induced damage, 108, 1077
  - Characterization of the effects of adenosine 5'-[ $\beta$ -thio]diphosphate in rat liver, 108, 663
  - Cyclic AMP and  $Ca^{2+}$  interactions affecting epithelial chloride secretion in human cultured colonic epithelia, 108, 462
  - EDRF release from canine coronary artery by lectins, 110, 1473
  - Eicosanoid-induced  $Ca^{2+}$  release and sustained contraction in  $Ca^{2+}$ -free media are mediated by different signal transduction pathways in rat aorta, 110, 875
  - Endothelin-1 (ET-1)-induced contraction in rat isolated trachea: involvement of ET $_A$  and ET $_B$  receptors and multiple signal transduction systems, 110, 435
  - Evidence that a form of ATP uncomplexed with divalent cations is the ligand of P $_{2u}$  and nucleotide/P $_{2u}$  receptors on aortic endothelial cells, 109, 967
  - Existence of rolipram-sensitive phosphodiesterase in rat megakaryocyte, 109, 1020
  - Higher potency of RP 67580, in the mouse and the rat compared with other neuropeptide and peptide tachykinin NK $_1$  antagonists, 108, 793
  - Ionomycin-induced acetylcholine release and its inhibition by adenosine at frog motor nerve endings, 110, 828
  - Kinin-induced chloride permeability changes in colony 29 epithelia

- estimated from  $^{125}\text{I}^-$  efflux and MEQ fluorescence, 108, 469
- $\text{Mg}^{2+}$  and caffeine-induced intracellular  $\text{Ca}^{2+}$  release in human vascular endothelial cells, 109, 291
  - PAF activation of a voltage-gated R-type  $\text{Ca}^{2+}$  channel in human and canine aortic endothelial cells, 110, 519
- Calcium, cytoplasmic**, Competitive inhibition by procaine of carbachol-induced stimulus-secretion coupling in rat pancreatic acini, 110, 603
- Calcium, cytosolic**, ATP induced-relaxation in the mouse bladder smooth muscle, 108, 749
- $\text{Ca}^{2+}$ -dependent aggregation of rabbit platelets induced by maitotoxin, a potent marine toxin, isolated from a dinoflagellate, 109, 29
  - Contractile and relaxant effects of phorbol ester in the intestinal smooth muscle of guinea-pig taenia caeci, 109, 229
  - Different pathways of calcium sensitization activated by receptor agonists and phorbol esters in vascular smooth muscle, 110, 1527
  - Dual effects of chlorobutanol on secretory response and intracellular  $\text{Ca}^{2+}$  dynamics in isolated pancreatic acini of the rat, 109, 685
  - The effects of ATP and  $\alpha,\beta$ -methylene-ATP on cytosolic  $\text{Ca}^{2+}$  level and force in rat isolated aorta, 110, 263
  - Induction of endothelium-dependent relaxation in the rat aorta by IRL 1620, a novel and selective agonist at the endothelin  $\text{ET}_\text{B}$  receptor, 109, 486
  - R56865 inhibits catecholamine release from bovine chromaffin cells by blocking calcium channels, 110, 1149
- Calcium, cytosolic free**, Muscarinic regulation of cytosolic free calcium in canine tracheal smooth muscle cells:  $\text{Ca}^{2+}$  requirement for phospholipase C activation, 110, 1239
- Protein kinase C inhibitors enhance endothelin-1 and attenuate vasopressin and angiotensin II evoked  $[\text{Ca}^{2+}]_i$  elevation in the rat cardiomyocyte, 108, 6
  - Role of extracellular and intracellular sources of  $\text{Ca}^{2+}$  in sarafotoxin S6b-induced contraction of strips of the rat aorta, 108, 30
- Calcium, dietary**, Effects of high calcium diet on arterial smooth muscle function and electrolyte balance in mineralocorticoid-salt hypertensive rats, 108, 948
- Calcium, intracellular**, Activation of the phospholipase C pathway by ATP is mediated exclusively through nucleotide type  $\text{P}_2$ -purinoceptors in C2C12 myotubes, 110, 747
- Adenosine  $\text{A}_1$ -receptor stimulated increases in intracellular calcium in the smooth muscle cell line, DDT<sub>1</sub>MF-2, 108, 85
  - Differential effects of cocaine and cocaethylene on intracellular  $\text{Ca}^{2+}$  and myocardial contraction in cardiac myocytes, 109, 293
  - Effect of extracellular ATP on contraction, cytosolic calcium activity, membrane voltage and ion currents of rat mesangial cells in primary culture, 109, 953
  - The effects of  $\alpha$ -adrenoceptor agonists on intracellular  $\text{Ca}^{2+}$  levels in freshly dispersed single smooth muscle cells from rat tail artery, 109, 1272
  - Effects of analogues of adenine nucleotides on increases in intracellular calcium mediated by  $\text{P}_{2\text{T}}$ -purinoceptors on human blood platelets, 108, 728
  - Effects of ATP on cultured smooth muscle cells from rat aorta, 108, 638
  - Effects of pH on the actions of dizocilpine at the *N*-methyl-D-aspartate receptor complex, 109, 107
  - Effects of a water-soluble forskolin derivative (NKH477) and a membrane-permeable cyclic AMP analogue on noradrenaline-induced  $\text{Ca}^{2+}$  mobilization in smooth muscle of rabbit mesenteric artery, 110, 1117
  - Enhancement by calcitonin gene-related peptide of nicotinic receptor-operated noncontractile  $\text{Ca}^{2+}$  mobilization at the mouse neuromuscular junction, 110, 639
  - Evidence that depletion of internal calcium stores sensitive to noradrenaline elicits a contractile response dependent on extracellular calcium in rat aorta, 110, 861
  - Homologous and heterologous desensitization of histamine  $\text{H}_1$ - and ATP-receptors in the smooth muscle cell line, DDT<sub>1</sub>MF-2: the role of protein kinase C, 110, 1449
  - Increases in intracellular calcium via activation of an endogenous  $\text{P}_2$ -purinoceptor in cultured CHO-K1 cells, 110, 1305
  - Intracellular calcium in canine cultured tracheal smooth muscle cells is regulated by  $\text{M}_3$  muscarinic receptors, 110, 983
  - Intracellular cross-talk between receptors coupled to phospholipase C via pertussis toxin-sensitive and insensitive G-proteins in DDT<sub>1</sub>MF-2 cells, 109, 719
  - Investigations of the dual contractile/relaxant properties showed by antioquine in rat aorta, 109, 502
- Calcium, intracellular free**, Effects of high calcium diet on arterial smooth muscle function and electrolyte balance in mineralocorticoid-salt hypertensive rats, 108, 948
- Calcium, intracellular stored**, Role of extracellular and intracellular sources of  $\text{Ca}^{2+}$  in sarafotoxin S6b-induced contraction of strips of the rat aorta, 108, 30
- Calcium $^{2+}$ , independent**, Induction of a calcium-independent NO synthase by hypercholesterolaemia in the rabbit, 108, 290
- Calcium activated potassium channels**, Activation of ion channels by lysylbradykinin in the HCA-7 colony 29 human adenocarcinoma cell line, 108, 479
- Charybdotoxin-sensitive  $\text{K}^+$  channels regulate the myogenic tone in the resting state of arteries from spontaneously hypertensive rats, 108, 214
  - Nitric oxide modulation of calcium-activated potassium channels in postganglionic neurones of avian cultured ciliary ganglia, 110, 995
- Calcium activation**, Cellular mechanism of the positive inotropic effect of hydralazine in mammalian myocardium, 109, 667
- Calcium antagonist activity**, Study of the mechanism of the relaxant action of (+)-glaucine in rat vas deferens, 110, 943
- Calcium antagonists**, Calcium antagonist and antiperoxidant properties of some hindered phenols, 110, 369
- Calcium blockers**, PAF activation of a voltage-gated R-type  $\text{Ca}^{2+}$  channel in human and canine aortic endothelial cells, 110, 519
- Calcium channel blockers**, Amelioration by the  $\text{Ca}^{2+}$  antagonist, nimodipine of an existing neuropathy in the streptozotocin-induced, diabetic rat, 108, 780
- Effect of activation on adhesion of flowing neutrophils to cultured endothelium: time course and inhibition by a calcium channel blocker (nitrendipine), 110, 1630
  - Intracellular calcium in canine cultured tracheal smooth muscle cells is regulated by  $\text{M}_3$  muscarinic receptors, 110, 983
  - Investigations of the dual contractile/relaxant properties showed by antioquine in rat aorta, 109, 502
  - Radioligand and functional estimates of the interaction of the 1,4-dihydropyridines, isradipine and lacidipine, with calcium channels in smooth muscle, 109, 100
  - Role of neuronal and vascular  $\text{Ca}^{2+}$ -channels in the ACTH-induced reversal of haemorrhagic shock, 109, 645
- Calcium channels**, The action of amlodipine on voltage-operated calcium channels in vascular smooth muscle, 109, 120
- Antinociceptive activity of  $\text{NK}_1$  receptor antagonists: non-specific effects of racemic RP67580, 110, 1607
  - Blockade by calmodulin inhibitors of  $\text{Ca}^{2+}$  channels in smooth muscle from rat vas deferens, 109, 137
  - $\text{Ca}^{2+}$  dependency of the release of nitric oxide from non-adrenergic non-cholinergic nerves, 110, 1329
  - A comparison of the inhibitory effects of sodium nitroprusside, pinacidil and nifedipine on pressor response to  $\text{N}^G$ -nitro-L-arginine, 108, 398
  - Effect of an intracellular calcium chelator on the regulation of electrically evoked  $[\text{H}^3]$ -noradrenaline release from rat hippocampal slices, 108, 126
  - Effect of  $\omega$ -conotoxin on adrenergic, cholinergic and NANC neurotransmission in the rabbit urethra and detrusor, 110, 1285
  - Effects of excitatory neurotransmitters on  $\text{Ca}^{2+}$  channel current in smooth muscle cells isolated from guinea-pig urinary bladder, 110, 317
  - Evidence for an external location of the dihydropyridine agonist receptor site on smooth muscle and skeletal muscle calcium channels, 108, 884
  - Evidence for sympathetic neurotransmission through presynaptic  $\text{N}$ -type calcium channels in human saphenous vein, 110, 338
  - The interaction of the  $\text{NK}_1$  receptor antagonist CP-96,345 with L-type calcium channels and its functional consequences, 110, 385
  - PAF activation of a voltage-gated R-type  $\text{Ca}^{2+}$  channel in human and canine aortic endothelial cells, 110, 519
  - R56865 inhibits catecholamine release from bovine chromaffin cells by blocking calcium channels, 110, 1149
  - Role of neuronal and vascular  $\text{Ca}^{2+}$ -channels in the ACTH-induced

- reversal of haemorrhagic shock, 109, 645
- Calcium channels, L-type**, Fendiline inhibits L-type calcium channels in guinea-pig ventricular myocytes: a whole-cell patch-clamp study, 108, 865
- Identification of a novel calcium antagonist binding site in rat brain by SR 33557, 108, 93
- Calcium channels, voltage sensitive**, Calcium modulatory properties of 2,6-dibutylbenzylamine (B25) in rat isolated vas deferens, cardiac and smooth muscle preparations, 109, 1038
- Charybdotoxin-sensitive  $K^+$  channels regulate the myogenic tone in the resting state of arteries from spontaneously hypertensive rats, 108, 214
- Calcium chelators**, Effect of an intracellular calcium chelator on the regulation of electrically evoked [ $^3H$ ]-noradrenaline release from rat hippocampal slices, 108, 126
- Calcium concentration, cytosolic**, Effects of L- and D-arginine and some related esters on the cytosolic mechanisms of  $\alpha$ -thrombin-induced human platelet activation, 110, 213
- Calcium current use-dependent blocks**, Use-dependent block of  $Ca^{2+}$  current by moricizine in guinea-pig ventricular myocytes: a possible ionic mechanism of action potential shortening, 108, 812
- Calcium currents**, Caffeine-induced decreases in the inward rectifier potassium and the inward calcium currents in rat ventricular myocytes, 109, 895
- Cyclopiazonic acid, an inhibitor of  $Ca^{2+}$ -ATPase in sarcoplasmic reticulum, increases excitability in ileal smooth muscle, 110, 565
  - Effect of trimebutine on voltage-activated calcium current in rabbit ileal smooth muscle cells, 110, 399
  - Effects of cicletanine on whole-cell currents of single smooth muscle cells from the guinea-pig portal vein, 109, 164
  - Effects of propafenone on calcium current in guinea-pig ventricular myocytes, 108, 721
  - Effects of propafenone on calcium currents in single ventricular myocytes of guinea-pig, 109, 178
  - Nitric oxide and arachidonic acid modulation of calcium currents in postganglionic neurones of avian cultured ciliary ganglia, 109, 480
  - R56865 inhibits catecholamine release from bovine chromaffin cells by blocking calcium channels, 110, 1149
- Calcium currents, L-type**, Effects of lisinopril on electromechanical properties and membrane currents in guinea-pig cardiac preparations, 109, 873
- Calcium efflux**, [ $Ca^{2+}$ ]<sub>i</sub>-sensitive,  $IP_3$ -independent  $Ca^{2+}$  influx in smooth muscle of rat vas deferens revealed by procaine, 110, 1353
- Calcium entry**, Effects of nifedipine and ryanodine on adrenergic neurogenic contractions of rat vas deferens: evidence for a pulse-to-pulse change in  $Ca^{2+}$  sources, 108, 1062
- Calcium entry, receptor-regulated**, Evidence that depletion of internal calcium stores sensitive to noradrenaline elicits a contractile response dependent on extracellular calcium in rat aorta, 110, 861
- Calcium indicators**, Cellular mechanism of the positive inotropic effect of hydralazine in mammalian myocardium, 109, 667
- Calcium influx**, [ $Ca^{2+}$ ]<sub>i</sub>-sensitive,  $IP_3$ -independent  $Ca^{2+}$  influx in smooth muscle of rat vas deferens revealed by procaine, 110, 1353
- Charybdotoxin-sensitive  $K^+$  channels regulate the myogenic tone in the resting state of arteries from spontaneously hypertensive rats, 108, 214
- Calcium inward currents**, Mechanical and electrophysiological studies on the positive inotropic effect of 2-phenyl-4-oxo-hydroquinoline in rat cardiac tissues, 110, 310
- Calcium ion mobilisation**, Characteristics of the bradykinin-induced changes in intracellular calcium ion concentration of single bovine tracheal smooth muscle cells, 110, 29
- Calcium ions**, The effect of ions and second messengers on long-term potentiation of chemical transmission in avian ciliary ganglia, 110, 461
- Calcium loading**, Time-related increases in cardiac concentrations of doxorubicinol could interact with doxorubicin to depress myocardial contractile function, 110, 975
- Calcium mobilization**, Effects of nifedipine and ryanodine on adrenergic neurogenic contractions of rat vas deferens: evidence for a pulse-to-pulse change in  $Ca^{2+}$  sources, 108, 1062
- Calcium pump**, Cyclopiazonic acid, an inhibitor of  $Ca^{2+}$ -ATPase in sarcoplasmic reticulum, increases excitability in ileal smooth muscle, 110, 565
- Calcium release**, Time-related increases in cardiac concentrations of doxorubicinol could interact with doxorubicin to depress myocardial contractile function, 110, 975
- Calcium sensitivity**, The effects of ATP and  $\alpha$ , $\beta$ -methylene-ATP on cytosolic  $Ca^{2+}$  level and force in rat isolated aorta, 110, 263
- Calcium sensitization**, Different pathways of calcium sensitization activated by receptor agonists and phorbol esters in vascular smooth muscle, 110, 1527
- Calcium signalling**, Muscarinic regulation of cytosolic free calcium in canine tracheal smooth muscle cells:  $Ca^{2+}$  requirement for phospholipase C activation, 110, 1239
- Selective inhibition of agonist-induced but not shear stress-dependent release of endothelial autacoids by thapsigargin, 108, 100
- Calcium stores**, Eicosanoid-induced  $Ca^{2+}$  release and sustained contraction in  $Ca^{2+}$ -free media are mediated by different signal transduction pathways in rat aorta, 110, 875
- Calcium uptake**, Charybdotoxin-sensitive  $K^+$  channels regulate the myogenic tone in the resting state of arteries from spontaneously hypertensive rats, 108, 214
- Inhibition by hydrochlorothiazide of insulin release and calcium influx in mouse pancreatic  $\beta$ -cells, 110, 1359
- Calcium-ATPase**, Cyclopiazonic acid, an inhibitor of  $Ca^{2+}$ -ATPase in sarcoplasmic reticulum, increases excitability in ileal smooth muscle, 110, 565
- Possible action of cyclopiazonic acid on myocardial sarcoplasmic reticulum: inotropic effects on neonatal and adult rat heart, 108, 571
- Calcium-calmodulin-dependent protein kinase II**, Effects of calyculin A on tension and myosin phosphorylation in skinned smooth muscle of the rabbit mesenteric artery, 109, 703
- Calcium-dependent chloride channels**, Effects of ATP on cultured smooth muscle cells from rat aorta, 108, 638
- Calcium-dependent potassium channels**, Effects of ATP on cultured smooth muscle cells from rat aorta, 108, 638
- S-nitrosocysteine, but not sodium nitroprusside, produces apamin-sensitive hyperpolarization in rat gastric fundus, 109, 415
- Calcium-dependent potassium currents**, Cyclopiazonic acid, an inhibitor of  $Ca^{2+}$ -ATPase in sarcoplasmic reticulum, increases excitability in ileal smooth muscle, 110, 565
- Calmodulin**, Endothelin-3-induced relaxation of rat thoracic aorta: a role for nitric oxide formation, 108, 1125
- Calmodulin antagonists**, Antiarrhythmic drugs, clofilium and cibenzoline are potent inhibitors of glibenclamide-sensitive  $K^+$  currents in *Xenopus* oocytes, 109, 866
- Evidence that  $M_1$  muscarinic receptors enhance noradrenaline release in mouse atria by activating protein kinase C, 110, 910
- Calmodulin inhibitors**, Blockade by calmodulin inhibitors of  $Ca^{2+}$  channels in smooth muscle from rat vas deferens, 109, 137
- Calphostin C**, Levromakalim may induce a voltage-independent K-current in rat portal veins by modifying the gating properties of the delayed rectifier, 110, 1037
- Calyculin A**, Effects of calyculin A on tension and myosin phosphorylation in skinned smooth muscle of the rabbit mesenteric artery, 109, 703
- Candoxatrilat**, Effect of endopeptidase-24.11 inhibition and of atrial natriuretic peptide clearance receptor ligand on the response to rat brain natriuretic peptide in the conscious rat, 110, 350
- Cannabinoids**, Cross-tolerance between delta-9-tetrahydrocannabinol and the cannabimimetic agents, CP 55,940, WIN 55,212-2 and anandamide, 110, 1483
- Capillaries**, Effects of hydroxyethylrutosides on the permeability of microvessels in the frog mesentery, 110, 199
- Capsaicin**, Capsaicin-induced relaxation in the rat isolated external urethral sphincter: characterization of the vanilloid receptor and mediation by CGRP, 110, 989
- A comparison of capsazepine and ruthenium red as capsaicin antagonists in the rat isolated urinary bladder and vas deferens, 108, 801
  - Effect of capsazepine on the release of calcitonin gene-related peptide-like immunoreactivity (CGRP-LI) induced by low pH, capsaicin and potassium in rat soleus muscle, 110, 609
  - Effects of capsaicin and 5-HT<sub>1</sub> antagonists on 5-hydroxytryptamine-evoked release of calcitonin gene-related peptide in the guinea-pig heart, 108, 431
  - Effects of ruthenium red and capsazepine on C-fibres in the rabbit iris, 110, 1073
  - Postjunctional inhibitory effect of the NK<sub>1</sub> receptor antagonist, SR 48968, on sensory NANC bronchoconstriction in the guinea-pig, 109, 765

- Profile of capsaicin-induced mouse ear oedema as neurogenic inflammatory model: comparison with arachidonic acid-induced ear oedema, 110, 1614
- Relative contributions of direct and indirect mechanisms mediating endothelin-induced contraction of guinea-pig trachea, 110, 955
- Ruthenium red, but not capsazepine reduces plasma extravasation by cigarette smoke in rat airways, 108, 646
- Tachykinin receptors mediating responses to sensory nerve stimulation and exogenous tachykinins and analogues in the rabbit isolated iris sphincter, 109, 1008
- Capsazepine**, A comparison of capsazepine and ruthenium red as capsaicin antagonists in the rat isolated urinary bladder and vas deferens, 108, 801
- Effect of capsazepine on the release of calcitonin gene-related peptide-like immunoreactivity (CGRP-LI) induced by low pH, capsaicin and potassium in rat soleus muscle, 110, 609
- Effects of ruthenium red and capsazepine on C-fibres in the rabbit iris, 110, 1073
- Ruthenium red, but not capsazepine reduces plasma extravasation by cigarette smoke in rat airways, 108, 646
- Captopril**, Activation by *Phoneutria nigriventer* (armed spider) venom of tissue kallikrein-kininogen-kinin system in rabbit skin *in vivo*, 109, 539
- Comparison between carvedilol and captopril in rats with partial ablation-induced chronic renal failure, 109, 581
- Differential effects of captopril on regional haemodynamic responses to angiotensin I and bradykinin in conscious rats, 108, 769
- Dose-dependent effects of angiotensin converting enzyme (ACE) inhibitors on glomerular prostanoid production by normotensive rats, 108, 327
- The effects of a converting enzyme inhibitor (captopril) and angiotensin II on fetal renal function, 110, 821
- Release of nitric oxide from glyceryl trinitrate by captopril but not enalaprilat: *in vitro* and *in vivo* studies, 109, 430
- Carbachol**, Activation by calcium alone of chloride secretion in T<sub>84</sub> epithelial cells, 109, 510
- Characterization of the effects of lithium on phosphatidylinositol (PI) cycle activity in human muscarinic m1 receptor-transfected CHO cells, 110, 809
- Competitive inhibition by procaine of carbachol-induced stimulus-secretion coupling in rat pancreatic acini, 110, 603
- Cyclic AMP and Ca<sup>2+</sup> interactions affecting epithelial chloride secretion in human cultured colonic epithelia, 108, 462
- Mechanism of carbachol-evoked contractions of guinea-pig ileal smooth muscle close to freezing point, 109, 1029
- Necessity of divalent cations for recovery from carbachol-induced nicotinic acetylcholine receptor inactivation at snake twitch fibre endplates, 110, 889
- PPADS selectively antagonizes P<sub>2X</sub>-purinoceptor-mediated responses in the rabbit urinary bladder, 110, 1491
- Carbamazepine**, Block of potassium currents in rat isolated sympathetic neurones by tricyclic antidepressants and structurally related compounds, 110, 1126
- Effects of carbamazepine and baclofen on 4-aminopyridine-induced epileptic activity in rat hippocampal slices, 108, 819
- Carbon monoxide**, Pulmonary effects of endogenous and exogenous nitric oxide in the pig: relation to cigarette smoke inhalation, 110, 739
- 5-Carboxamidotryptamine**, [<sup>3</sup>H]-5-carboxamidotryptamine labels 5-HT<sub>1D</sub> binding sites in bovine substantia nigra, 109, 1206
- Characterization of the 5-hydroxytryptamine receptor mediating the positive inotropic response in guinea-pig isolated left atria, 109, 1192
- [<sup>3</sup>H]-5-Carboxamidotryptamine, [<sup>3</sup>H]-5-carboxamidotryptamine labels 5-HT<sub>1D</sub> binding sites in bovine substantia nigra, 109, 1206
- Cardiac action potential**, Calcium antagonistic and antiarrhythmic actions of CPU-23, a substituted tetrahydroisoquinoline, 109, 113
- Effects of hyperkalaemia on the depression of maximum rate of depolarization by class I antiarrhythmic agents in guinea-pig myocardium, 108, 255
- Cardiac calcium-release channel**, Digoxin activates sarcoplasmic reticulum Ca<sup>2+</sup>-release channels: a possible role in cardiac inotropy, 108, 1043
- Cardiac contraction**, The positive inotropic effect of compound II, a novel analogue of sotalol, on guinea-pig papillary muscles and single ventricular myocytes, 110, 95
- Cardiac glycosides**, Digoxin activates sarcoplasmic reticulum Ca<sup>2+</sup>-release channels: a possible role in cardiac inotropy, 108, 1043
- Cardiac ischaemia**, Formation of sulphidopeptide-leukotrienes by cell-cell interaction causes coronary vasoconstriction in isolated, cell-perfused heart of rabbit, 110, 1206
- Cardiac myocytes**, Effects of propafenone on calcium currents in single ventricular myocytes of guinea-pig, 109, 178
- Incomplete reversal of  $\beta$ -adrenoceptor desensitization in human and guinea-pig cardiomyocytes by cyclic nucleotide phosphodiesterase inhibitors, 109, 1071
- Cardiac output**, The effects of *N*<sup>G</sup>-nitro-L-arginine methyl ester, sodium nitroprusside and noradrenaline on venous return in the anaesthetized cat, 108, 933
- Production by *R*- $\alpha$ -methylhistamine of a histamine H<sub>3</sub> receptor-mediated decrease in basal vascular resistance in guinea-pigs, 110, 553
- Cardiac protection**, Effects of beraprost on the transmembrane potentials of guinea-pig ventricular muscles during normoxia and hypoxia-reoxygenation, 109, 1014
- Hoe 694, a new Na<sup>+</sup>/H<sup>+</sup> exchange inhibitor and its effects in cardiac ischaemia, 109, 562
- Cardiomyocyte**, Protein kinase C inhibitors enhance endothelin-1 and attenuate vasopressin and angiotensin II evoked [Ca<sup>2+</sup>]<sub>i</sub> elevation in the rat cardiomyocyte, 108, 6
- Cardiotoxicity**, Time-related increases in cardiac concentrations of doxorubicin could interact with doxorubicin to depress myocardial contractile function, 110, 975
- Cardiovascular control**, Effects of *N*<sup>G</sup>-nitro-L-arginine methyl ester on the cardiovascular system of the anaesthetized rabbit and on the cardiovascular response to thyrotropin-releasing hormone, 109, 1219
- Cardiovascular responses**, Cardiovascular effects of intrathecally administered bradykinin in the rat: characterization of receptors with antagonists, 110, 1369
- Cardiovascular system**, Effects of 5-HT-receptor and  $\alpha_2$ -adrenoceptor ligands on the haemodynamic response to acute central hypovolaemia in conscious rabbits, 109, 37
- Carvedilol**, Comparison between carvedilol and captopril in rats with partial ablation-induced chronic renal failure, 109, 581
- Castor oil**, Inhibitors of nitric oxide synthetase prevent castor-oil-induced diarrhoea in the rat, 108, 861
- Catalase**, Arterial endothelial barrier dysfunction: actions of homocysteine and the hypoxanthine-xanthine oxidase free radical generating system, 108, 920
- Catecholamine infusion**, Potentiation of  $\alpha$ -adrenoceptor-mediated responses following chronic  $\beta$ -adrenoceptor stimulation in the rat heart, 108, 658
- Catecholamine release**, R56865 inhibits catecholamine release from bovine chromaffin cells by blocking calcium channels, 110, 1149
- Catecholamine secretion**, GABA<sub>A</sub> receptors modulate catecholamine secretion in chromaffin cells by a mechanism involving cyclic AMP formation, 110, 1586
- Catecholamines**, Endothelium-dependent noradrenaline-induced relaxation of rat isolated cerebral arteries: pharmacological characterization of receptor subtypes involved, 110, 1321
- High-affinity uptake of noradrenaline in postsynaptic neurones, 109, 299
- Nitric oxide-mediated hyporeactivity to noradrenaline precedes the induction of nitric oxide synthase in endotoxin shock, 108, 786
- Cathartics**, Influence of rhein anthrone on peristaltic reflex of guinea-pig isolated ileum: involvement of prostaglandins, 108, 269
- Cathepsin G**, Inhibition by recombinant SLPI and half-SLPI (Asn<sup>35</sup>-Ala<sup>107</sup>) of elastase and cathepsin G activities: consequence for neutrophil-platelet cooperation, 108, 1100
- Cation channels**, Characterization of 5-HT<sub>3</sub> receptors of N1E-115 neuroblastoma cells by use of the influx of the organic cation [<sup>14</sup>C]-guanidinium, 108, 436
- Membrane current responses to externally-applied ATP in the longitudinal muscle of the chicken rectum, 110, 87
- Cellprol**, Transport of cellprol across human intestinal epithelial (Caco-2) cells: mediation of secretion by multiple transporters including P-glycoprotein, 110, 1009
- Cell injury**, Cellular mechanism of U78517F in the protection of porcine coronary artery endothelial cells from oxygen radical-induced damage, 108, 1077
- Cell migration**, Interference of a neutrophil recruitment inhibitory factor upon the accumulation of inflammatory cells and airway hyperactivity in sensitized guinea-pigs after intranasal antigen challenge, 108, 538

- Cell outward transport**, Kinetic study of the tubular dopamine outward transporter in the rat and dog kidney, 109, 577
- Cell survival**, Activation of the Na<sup>+</sup>/K<sup>+</sup>-pump in rat peritoneal mast cells following histamine release: a possible role in cell recovery, 108, 120
- Cell-attached patches**, Use-dependent block of Na<sup>+</sup> currents by mexiletine at the single channel level in guinea-pig ventricular myocytes, 110, 183
- Cerebellum, guinea-pig**, Adenosine receptor-induced second messenger production in adult guinea-pig cerebellum, 110, 1085
- Cerebellum, rat**, Inhibition of rat cerebellar nitric oxide synthase by 7-nitro indazole and related substituted indazoles, 110, 225
- Cerebral autoregulation**, Effects of N<sup>G</sup>-nitro-L-arginine methyl ester on the cardiovascular system of the anaesthetized rabbit and on the cardiovascular response to thyrotropin-releasing hormone, 109, 1219
- Cerebral blood flow**, Effects of sumatriptan on the cerebral intraparenchymal microcirculation in the cat, 110, 1445
- Cerebral blood vessels**, Effects of sumatriptan on the cerebral intraparenchymal microcirculation in the cat, 110, 1445
- Cerebral cortex**, 2-Naphthalenesulphonyl L-aspartyl-(2-phenethyl)-amide (2-NAP)—a selective cholecystokinin CCK<sub>A</sub>-receptor antagonist, 108, 734
- Anion transport blockers inhibit DL-2-amino-4-phosphonobutyrate responses induced by quisqualate in the rat cerebral cortex, 109, 449
- Cerebral cortex, guinea-pig**, Desensitization of histamine H<sub>1</sub> receptor-mediated inositol phosphate accumulation in guinea pig cerebral cortex slices, 110, 269
- Cerebral cortex, rat**, RS 23597-190: a potent and selective 5-HT<sub>1</sub> receptor antagonist, 110, 119
- Cerebral cortical neurones, rat**, Differential properties of type I and type II benzodiazepine receptors in mammalian CNS neurones, 109, 819
- Cerebral glucose metabolism**, Lack of effect of L-687,414 ((+)-*cis*-4-methyl-HA-966), an NMDA receptor antagonist acting at the glycine site, on cerebral glucose metabolism and cortical neuronal morphology, 110, 36
- Cerebral ischaemia**, The effect of lifarizine (RS-87476), a novel sodium and calcium channel modulator, on ischaemic dopamine depletion in the corpus striatum of the gerbil, 109, 175
- Protection by nicorandil against the dysfunction of the central vagal baroreflex system following transient global cerebral ischaemia in dogs, 109, 1263
- Cerebrospinal fluid**, Antiepileptic drug pharmacokinetics and neuropharmacokinetics in individual rats by repetitive withdrawal of blood and cerebrospinal fluid: milacemide, 108, 1117
- CGP 12177**, Demonstration of the suitability of CGP 12177 for *in vivo* studies of  $\beta$ -adrenoceptors, 109, 1101
- Evidence for a functional  $\beta_3$ -adrenoceptor in man, 110, 929
- [<sup>3</sup>H]-CGP 12177, The affinity of betaxolol, a  $\beta_1$ -adrenoceptor-selective blocking agent, for  $\beta$ -adrenoceptors in the bovine trachea and heart, 108, 484
- CGP 20712A**,  $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal K<sup>+</sup>-channels in bovine trachealis muscle: studies of mechanical activity and ion fluxes, 109, 1149
- $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal K<sup>+</sup>-channels in trachealis muscle: electrophysiological and mechanical studies in guinea-pig tissue, 109, 1140
  - The  $\beta$ -adrenoceptors mediating relaxation of rat oesophageal muscularis mucosae are predominantly of the  $\beta_3$ -, but also of the  $\beta_2$ -subtype, 110, 442
- CGP 35348**, Antitussive effects of GABA<sub>B</sub> agonists in the cat and guinea-pig, 110, 491
- Solubilization and characterization of GABA<sub>B</sub> receptor binding sites from porcine brain synaptic membranes, 110, 1291
- CGP 36742**, Solubilization and characterization of GABA<sub>B</sub> receptor binding sites from porcine brain synaptic membranes, 110, 1291
- CGP 54626**, Solubilization and characterization of GABA<sub>B</sub> receptor binding sites from porcine brain synaptic membranes, 110, 1291
- CGS 12066B**, Evidence that RU 24969-induced locomotor activity in C57/B1/6 mice is specifically mediated by the 5-HT<sub>1B</sub> receptor, 110, 1621
- CGS 15943A**, Adenosine receptor-mediated modulation of acetylcholine release from rat striatal synaptosomes, 110, 949
- CGS 21680**, Adenosine receptor-mediated modulation of acetylcholine release from rat striatal synaptosomes, 110, 949
- Channel blocks**, Differential inhibition of a transient K<sup>+</sup> current by chlorpromazine and 4-aminopyridine in neurones of the rat dorsal root ganglia, 109, 1239
- Charybdotoxin**, Charybdotoxin-sensitive K<sup>+</sup> channels regulate the myogenic tone in the resting state of arteries from spontaneously hypertensive rats, 108, 214
- Evaluation of the relaxant effects of SCA40, a novel charybdotoxin-sensitive potassium channel opener, in guinea-pig isolated trachealis, 108, 622
  - Modification by charybdotoxin and apamin of spontaneous electrical and mechanical activity of the circular smooth muscle of the guinea-pig stomach, 109, 661
- Chemiluminescence**, Virus-induced airway hyperresponsiveness in the guinea-pig: possible involvement of histamine and inflammatory cells, 108, 1083
- Chemotaxis**, Inhibition by nitric oxide-donors of human polymorphonuclear leucocyte functions, 109, 852
- Chloralose**, Halothane inhibits the pressor effect of diphenyleneiodonium, 109, 1186
- Chlordiazepoxide**, Attenuation of reperfusion hyperalgesia in the rat by systemic administration of benzodiazepines, 110, 1067
- Chloride**, Chloride anion concentration as a determinant of renal vascular responsiveness to vasoconstrictor agents, 108, 106
- Chloride conductance**, Effect of extracellular ATP on contraction, cytosolic calcium activity, membrane voltage and ion currents of rat mesangial cells in primary culture, 109, 953
- Chloride currents**, Caffeine and related compounds block inhibitory amino acid-gated Cl<sup>-</sup> currents in freshly dissociated rat hippocampal neurones, 109, 459
- Chloride flux**, Inhibition by hydrochlorothiazide of insulin release and calcium influx in mouse pancreatic  $\beta$ -cells, 110, 1359
- Chloride secretion**, Activation by calcium alone of chloride secretion in T<sub>84</sub> epithelial cells, 109, 510
- Cyclic AMP and Ca<sup>2+</sup> interactions affecting epithelial chloride secretion in human cultured colonic epithelia, 108, 462
  - Kinin-induced chloride permeability changes in colony 29 epithelia estimated from <sup>125</sup>I<sup>-</sup> efflux and MEQ fluorescence, 108, 469
- Chlormethiazole**, 5-HT loss in rat brain following 3,4-methylenedioxymethamphetamine (MDMA), *p*-chloroamphetamine and fenfluramine administration and effects of chlormethiazole and dizocilpine, 108, 583
- Counteraction of the rapid tolerance to 8-OH-DPAT-induced corticosterone secretion in rats by activation of the GABA<sub>A</sub> receptor-chloride channel complex, 109, 207
  - Striatal dopamine release *in vivo* following neurotoxic doses of methamphetamine and effect of the neuroprotective drugs, chlormethiazole and dizocilpine, 108, 590
- 2-Chloroadenosine**, Prejunctional modulation of noradrenaline release in mouse and rat vas deferens: contribution of P<sub>1</sub>- and P<sub>2</sub>-purinoceptors, 110, 1465
- p*-Chloroamphetamine**, 5-HT loss in rat brain following 3,4-methylenedioxymethamphetamine (MDMA), *p*-chloroamphetamine and fenfluramine administration and effects of chlormethiazole and dizocilpine, 108, 583
- Chlorobutanol**, Dual effects of chlorobutanol on secretory response and intracellular Ca<sup>2+</sup> dynamics in isolated pancreatic acini of the rat, 109, 685
- Chloroethylclonidine**, Chloroethylclonidine: an irreversible agonist at prejunctional  $\alpha_2$ -adrenoceptors in rat vas deferens, 108, 336
- 7-Chlorokynurenate**, Inhibition of [<sup>3</sup>H]-(+)-MK 801 binding to rat brain sections by CPP and 7-chlorokynurenic acid: an autoradiographic analysis, 108, 577
- m*-Chloro-phenylpiperazine (mCPP)**, Characterization of the 5-hydroxytryptamine receptor mediating the positive inotropic response in guinea-pig isolated left atria, 109, 1192
- Functional characterization of a 5-HT<sub>3</sub> receptor which modulates the release of 5-HT in the guinea-pig brain, 108, 13
- Chlorpheniramine**, Modulation by histamine of the delayed outward potassium current in guinea-pig ventricular myocytes, 109, 142
- Chlorpromazine**, Block of potassium currents in rat isolated sympathetic neurones by tricyclic antidepressants and structurally related compounds, 110, 1126
- Differential inhibition of a transient K<sup>+</sup> current by chlorpromazine and 4-aminopyridine in neurones of the rat dorsal root ganglia, 109, 1239
- CHO cells**, Characterization of the effects of lithium on phosphatidylinositol (PI) cycle activity in human muscarinic m1 receptor-transfected CHO cells, 110, 809

- Increases in intracellular calcium via activation of an endogenous P<sub>2</sub>-purinoceptor in cultured CHO-K1 cells, 110, 1305
- Pharmacology of a cloned potassium channel from mouse brain (MK-1) expressed in CHO cells: effects of blockers and an 'inactivation peptide', 109, 725
- Cholecystokinin**, 2-Naphthalenesulphonyl L-aspartyl-(2-phenethyl)-amide (2-NAP)—a selective cholecystokinin CCK<sub>A</sub>-receptor antagonist, 108, 734
- Analysis of the CCK<sub>B</sub> receptor antagonism of virginiamycin in guinea-pig ileum longitudinal myenteric plexus, 108, 1164
- Cholecystokinin as a factor in the enhanced potency of spinal morphine following carrageenin inflammation, 108, 967
- Competitive inhibition by procaine of carbachol-induced stimulus-secretion coupling in rat pancreatic acini, 110, 603
- Involvement of cholecystokinin receptor types in pathways controlling oxytocin secretion, 110, 378
- Modulation of opioid antinociception by CCK at the supraspinal level: evidence of regulatory mechanisms between CCK and enkephalin systems in the control of pain, 109, 1064
- Reciprocal interaction of 5-hydroxytryptamine and cholecystokinin in the control of feeding patterns in rats, 109, 491
- Cholecystokinin receptors**, Analysis of the CCK<sub>B</sub> receptor antagonism of virginiamycin in guinea-pig ileum longitudinal myenteric plexus, 108, 1164
- Characterization of CCK receptors in a novel smooth muscle preparation from the guinea-pig stomach by use of the selective antagonists CI-988, L-365,260 and devazepide, 109, 913
- Cholecystokinin receptors (CCK<sub>A</sub>)**, Involvement of cholecystokinin receptor types in pathways controlling oxytocin secretion, 110, 378
- Cholecystokinin receptor antagonists**, 2-Naphthalenesulphonyl L-aspartyl-(2-phenethyl)amide (2-NAP)—a selective cholecystokinin CCK<sub>A</sub>-receptor antagonist, 108, 734
- Characterization of CCK receptors in a novel smooth muscle preparation from the guinea-pig stomach by use of the selective antagonists CI-988, L-365,260 and devazepide, 109, 913
- Cholinergic nerves**, Bradykinin-induced airflow obstruction and airway plasma exudation: effects of drugs that inhibit acetylcholine, thromboxane A<sub>2</sub> or leukotrienes, 110, 657
- Cholinergic neurotransmission**, Effect of  $\omega$ -conotoxin on adrenergic, cholinergic and NANC neurotransmission in the rabbit urethra and detrusor, 110, 1285
- Modulation of cholinergic and substance P-like neurotransmission by nitric oxide in the guinea-pig ileum, 110, 833
- Cholinergic receptor antagonism**, Effects of cholinergic and 5-hydroxytryptamine<sub>2</sub> receptor antagonism on erythromycin-induced canine intestinal motility disruption and emesis, 108, 44
- Cholinergic transmission**, Endogenous tachykinins facilitate transmission through parasympathetic ganglia in guinea-pig trachea, 109, 751
- Functional importance of cholinergic and purinergic neurotransmission for micturition contraction in the normal, unanaesthetized rat, 109, 473
- Chorioallantoic membrane (CAM)**, Nitric oxide is involved in the regulation of angiogenesis, 108, 855
- Chromaffin cells**, GABA<sub>B</sub> receptors modulate catecholamine secretion in chromaffin cells by a mechanism involving cyclic AMP formation, 110, 1586
- R56865 inhibits catecholamine release from bovine chromaffin cells by blocking calcium channels, 110, 1149
- $\alpha$ -Chymotrypsin**, Regulation of NANC neural bronchoconstriction *in vivo* in the guinea-pig: involvement of nitric oxide, 108, 228
- CI-988**, Characterization of CCK receptors in a novel smooth muscle preparation from the guinea-pig stomach by use of the selective antagonists CI-988, L-365,260 and devazepide, 109, 913
- Cibenzoline**, Antiarrhythmic drugs, clofilium and cibenzoline are potent inhibitors of glibenclamide-sensitive K<sup>+</sup> currents in *Xenopus* oocytes, 109, 866
- Cibenzoline inhibits diazoxide- and 2,4-dinitrophenol-activated ATP-sensitive K<sup>+</sup> channels in guinea-pig ventricular cells, 108, 549
- Inhibition of the ATP-sensitive potassium channel by class I antiarrhythmic agent, cibenzoline, in rat pancreatic  $\beta$ -cells, 109, 1226
- Cicaprost**, Potentiation of aggregation and inhibition of adenylate cyclase in human platelets by prostaglandin E analogues, 108, 363
- Cicletanine**, Effects of cicletanine on whole-cell currents of single smooth muscle cells from the guinea-pig portal vein, 109, 164
- Cigarette smoke**, Effects of two novel tachykinin antagonists, FK224 and FK888, on neurogenic airway plasma exudation, bronchoconstriction and systemic hypotension in guinea-pigs *in vivo*, 108, 844
- Pulmonary effects of endogenous and exogenous nitric oxide in the pig: relation to cigarette smoke inhalation, 110, 739
- Ruthenium red, but not capsazepine reduces plasma extravasation by cigarette smoke in rat airways, 108, 646
- Cimetidine**, Modulation by histamine of the delayed outward potassium current in guinea-pig ventricular myocytes, 109, 142
- Ciprofloxacin**, Active secretion of the fluoroquinolone ciprofloxacin by human intestinal epithelial Caco-2 cell layers, 108, 575
- Cirazoline**, Antagonism of levcromakalim by imidazoline- and guanidine-derivatives in rat portal vein: involvement of the delayed rectifier, 110, 1556
- Circulatory shock**, Nitric oxide-mediated hyporeactivity to noradrenaline precedes the induction of nitric oxide synthase in endotoxin shock, 108, 786
- L-Citrulline**, Selective inhibition by dexamethasone of induction of NO synthase, but not of induction of L-arginine transport, in activated murine macrophage J774 cells, 110, 1401
- Clearance receptors**, Effect of endopeptidase-24.11 inhibition and of atrial natriuretic peptide clearance receptor ligand on the response to rat brain natriuretic peptide in the conscious rat, 110, 350
- Clofilium**, Antiarrhythmic drugs, clofilium and cibenzoline are potent inhibitors of glibenclamide-sensitive K<sup>+</sup> currents in *Xenopus* oocytes, 109, 866
- Cloned human receptors**, Pharmacological characterization of acetylcholine-stimulated [<sup>35</sup>S]-GTP $\gamma$ S binding mediated by human muscarinic m1-m4 receptors: antagonist studies, 109, 1120
- Clonidine**, Antagonism of levcromakalim by imidazoline- and guanidine-derivatives in rat portal vein: involvement of the delayed rectifier, 110, 1556
- Differential effects of K<sup>+</sup> channel blockers on antinociception induced by  $\alpha_2$ -adrenoceptor, GABA<sub>B</sub> and  $\kappa$ -opioid receptor agonists, 110, 1049
- *In vivo* microdialysis of noradrenaline overflow: effects of  $\alpha$ -adrenoceptor agonists and antagonists measured by cumulative concentration-response curves, 109, 655
- Mediation of the hypotensive action of systemic clonidine in the rat by  $\alpha_2$ -adrenoceptors, 110, 1635
- Relevance of the use of [<sup>3</sup>H]-clonidine to identify imidazoline receptors in the rabbit brainstem, 110, 1537
- Renal imidazoline preferring sites and solute excretion in the rat, 108, 870
- Clorgyline**, Acceleration by chronic treatment with clorgyline of the turnover of brain  $\alpha_2$ -adrenoceptors in normotensive but not in spontaneously hypertensive rats, 110, 99
- Chronic treatment with the monoamine oxidase inhibitors clorgyline and pargyline down-regulates non-adrenoceptor [<sup>3</sup>H]-idazoxan binding sites in the rat brain, 108, 597
- Cloricromene**, Dissociation of the anti-ischaemic effects of cloricromene from its anti-platelet activity, 110, 275
- Cocaethylene**, Differential effects of cocaine and cocaethylene on intracellular Ca<sup>2+</sup> and myocardial contraction in cardiac myocytes, 109, 293
- Cocaine**, Differential effects of cocaine and cocaethylene on intracellular Ca<sup>2+</sup> and myocardial contraction in cardiac myocytes, 109, 293
- Colchicine**, A non-peptide NK<sub>1</sub>-receptor antagonist, RP 67580, inhibits neurogenic inflammation postsynaptically, 109, 259
- Prevention of nitric oxide synthase induction in vascular smooth muscle cells by microtubule depolymerizing agents, 109, 603
- Collagenous protein biosynthesis**, Nitric oxide is involved in the regulation of angiogenesis, 108, 855
- Collateral flow**, Hypercholesterolaemia severely impairs EDRF-dependent collateral perfusion following acute arterial occlusion in rabbit isolated ear, 109, 838
- Collecting duct cells**, Effect of nafamostat mesilate on Na<sup>+</sup> and K<sup>+</sup> transport properties in the rabbit cortical collecting duct, 109, 673
- Colon**, Activation of ion channels by lysylbradykinin in the HCA-7 colony 29 human adenocarcinoma cell line, 108, 479
- Cyclic AMP and Ca<sup>2+</sup> interactions affecting epithelial chloride secretion in human cultured colonic epithelia, 108, 462
- Inhibition of nitric oxide synthesis reveals non-cholinergic excitatory neurotransmission in the canine proximal colon, 109, 739
- Kinin-induced chloride permeability changes in colony 29 epithelia

- estimated from  $^{125}\text{I}^-$  efflux and MEQ fluorescence, 108, 469
- Localization and characterization of neuropeptide Y binding sites in porcine and human colon, 108, 304
  - Nitric oxide affects mammalian distal colonic smooth muscle by tonic neural inhibition, 108, 974
  - Protein kinase regulation of muscarinic receptor signalling in colonic smooth muscle, 108, 613
- Colon, canine**, Inositol 1,4,5-trisphosphate and inositol 1,3,4,5-tetrakisphosphate binding sites in smooth muscle, 109, 905
- Colon, cat**, Stimulation of lumbar sympathetic nerves evokes contractions of cat colon circular muscle mediated by ATP and noradrenaline, 110, 1260
- Colon, guinea-pig**, The guinea-pig distal colon—a sensitive preparation for the investigation of 5-HT<sub>4</sub> receptor-mediated contractions, 110, 1593
- Colon, rat**, Characterization of the adenosine receptor mediating contraction in rat colonic muscularis mucosae, 110, 1255
- Desensitization of the P<sub>2</sub>-purinoceptors on the rat colon muscularis mucosae, 110, 501
  - Effects of selective antagonism of  $\beta$ -adrenoceptor sub-types on responses to isoprenaline in rat distal colon *in vitro*, 110, 1551
- Colonic motility**, Mediators of nonadrenergic, noncholinergic inhibition in the proximal, middle and distal regions of rat colon, 108, 348
- Compound 48/80**, Activation of the Na<sup>+</sup>/K<sup>+</sup>-pump in rat peritoneal mast cells following histamine release: a possible role in cell recovery, 108, 120
- Concentration-clamp**, Antiarrhythmic agents act differently on the activation phase of the ACh-response in guinea-pig atrial myocytes, 108, 111
- $\omega$ -Conotoxin**, Ca<sup>2+</sup> dependency of the release of nitric oxide from non-adrenergic non-cholinergic nerves, 110, 1329
- Effect of an intracellular calcium chelator on the regulation of electrically evoked [<sup>3</sup>H]-noradrenaline release from rat hippocampal slices, 108, 126
  - Effect of  $\omega$ -conotoxin on adrenergic, cholinergic and NANC neurotransmission in the rabbit urethra and detrusor, 110, 1285
  - Evidence for sympathetic neurotransmission through presynaptic N-type calcium channels in human saphenous vein, 110, 338
  - Modulation of acetylcholine-induced contractions of the rat anococcygeus muscle by activation of nitrergic nerves, 110, 1479
  - Role of neuronal and vascular Ca<sup>2+</sup>-channels in the ACTH-induced reversal of haemorrhagic shock, 109, 645
- Contractile recovery**, Na<sup>+</sup>/H<sup>+</sup> exchange inhibitors reverse lactate-induced depression in postischaemic ventricular recovery, 108, 50
- Contraction**, Effect of extracellular ATP on contraction, cytosolic calcium activity, membrane voltage and ion currents of rat mesangial cells in primary culture, 109, 953
- The effects of ATP and  $\alpha,\beta$ -methylene-ATP on cytosolic Ca<sup>2+</sup> level and force in rat isolated aorta, 110, 263
  - Modification by charybdotoxin and apamin of spontaneous electrical and mechanical activity of the circular smooth muscle of the guinea-pig stomach, 109, 661
  - Role of tumour necrosis factor in the induction of nitric oxide synthase in a rat model of endotoxin shock, 110, 177
- Coronary artery ligation**, Calcium antagonistic and antiarrhythmic actions of CPU-23, a substituted tetrahydroisoquinoline, 109, 113
- Coronary artery occlusion**, The antiarrhythmic effects of the nucleoside transporter inhibitor, R75231, in anaesthetized pigs, 109, 592
- Coronary circulation**, Comparison of the effects of EXP3174, an angiotensin II antagonist and enalaprilat on myocardial infarct size in anaesthetized dogs, 110, 969
- Nitric oxide modulates vascular permeability in the rat coronary circulation, 108, 323
- Coronary microcirculation**, Bacterial endotoxin rapidly stimulates prolonged endothelium-dependent vasodilatation in the rat isolated perfused heart, 109, 987
- Coronary vasculature**, A<sub>2</sub>-purinoceptor-mediated relaxation in the guinea-pig coronary vasculature: a role for nitric oxide, 109, 424
- Corpora cavernosa**, Inhibition of nerve stimulation-induced vasodilatation in corpora cavernosa of the pithed rat by blockade of nitric oxide synthase, 108, 1038
- Cortex**, Binding of angiotensin antagonists to rat liver and brain membranes measured *ex vivo*, 109, 760
- Cortex, olfactory**, Action of  $\alpha$ -dendrotoxin on K<sup>+</sup> currents in nerve terminal regions of axons in rat olfactory cortex, 109, 535
- Actions of agonists of metabotropic glutamate receptors on synaptic transmission and transmitter release in the olfactory cortex, 108, 422
- Cortex, cerebral**, Binding and structure-activity-relation of benzof[isoquinoline]- and norcodeinone-derivatives at  $\mu$ -opioid receptors in the rat cerebral cortex, 110, 1429
- Species-selective binding of [<sup>3</sup>H]-idazoxan to  $\alpha_2$ -adrenoceptors and non-adrenoceptor, imidazoline binding sites in the central nervous system, 109, 831
- Cortex, frontal**, The profiles of interaction of yohimbine with anxiolytic and putative anxiolytic agents to modify 5-HT release in the frontal cortex of freely-moving rats, 110, 1079
- Cortex, prefrontal**, *In vivo* release of dopamine from rat striatum, substantia nigra and prefrontal cortex: differential modulation by baclofen, 109, 814
- Cortex, rabbit**, [<sup>3</sup>H]-Idazoxan binding to rabbit cerebral cortex recognises multiple imidazoline I<sub>2</sub>-type receptors: pharmacological characterization and relationship to monoamine oxidase, 109, 625
- Cortical neuronal morphology**, Lack of effect of L-687,414 ((+)-*cis*-4-methyl-HA-966), an NMDA receptor antagonist acting at the glycine site, on cerebral glucose metabolism and cortical neuronal morphology, 110, 36
- Corticosteroids**, The induction of nitric oxide synthase and intestinal vascular permeability by endotoxin in the rat, 110, 1189
- Involvement of nitric oxide synthase in the delayed vasodilator response to ultraviolet light irradiation of rat skin *in vivo*, 109, 802
- Corticosterone**, Counteraction of the rapid tolerance to 8-OH-DPAT-induced corticosterone secretion in rats by activation of the GABA<sub>A</sub> receptor-chloride channel complex, 109, 207
- Corticosterone secretion**, Effects of intracerebroventricular injection of histamine and related compounds on corticosterone release in rats, 109, 807
- Corticotropin-releasing factor**, Effects of pyrogenic immunomodulators on the release of corticotrophin-releasing factor-41 and prostaglandin E<sub>2</sub> from the intact rat hypothalamus *in vitro*, 109, 88
- Relaxing actions of corticotropin-releasing factor on rat resistance arteries, 108, 941
- COS cells**, Pharmacology of GABA  $\gamma$ 1 and GABA  $\alpha/\beta$  receptors expressed in *Xenopus* oocytes and COS cells, 109, 200
- Cotransmission**, Evidence for the involvement of both ATP and nitric oxide in non-adrenergic, non-cholinergic inhibitory neurotransmission in the rabbit portal vein, 109, 606
- Cough**, Antitussive effects of GABA<sub>B</sub> agonists in the cat and guinea-pig, 110, 491
- Coumarin derivatives**, Protection by scoparone against the alterations of plasma lipoproteins, vascular morphology and vascular reactivity in hyperlipidaemic diabetic rabbit, 110, 1508
- CP-66,713**, Adenosine receptor-mediated modulation of acetylcholine release from rat striatal synaptosomes, 110, 949
- CP-55,940**, Cross-tolerance between delta-9-tetrahydrocannabinol and the cannabimimetic agents, CP 55,940, WIN 55,212-2 and anandamide, 110, 1483
- CP-93,129**, 5-HT<sub>1B</sub> receptors mediate potent contractile responses to 5-HT in rat caudal artery, 109, 609
- Time-dependent blockade of neurogenic plasma extravasation in dura mater by 5-HT<sub>1BD</sub> agonists and endopeptidase 24.11, 108, 331
- CP-96,345**, Block of voltage-dependent sodium currents by the substance P receptor antagonist ( $\pm$ )-CP-96,345 in neurones cultured from rat cortex, 109, 918
- Effects of interactions of naturally-occurring neuropeptides on blood flow in the rat knee joint, 108, 694
  - The interaction of the NK<sub>1</sub> receptor antagonist CP-96,345 with L-type calcium channels and its functional consequences, 110, 385
  - Non-peptide antagonists, CP-96,345 and RP 67580, distinguish species variants in tachykinin NK<sub>1</sub> receptors, 108, 223
- CP-99,994**, Identification of both NK<sub>1</sub> and NK<sub>2</sub> receptors in guinea-pig airways, 110, 693
- CPP**, Inhibition of [<sup>3</sup>H]-(+)-MK 801 binding to rat brain sections by CPP and 7-chlorokynurenic acid: an autoradiographic analysis, 108, 577
- CPU-23**, Calcium antagonistic and antiarrhythmic actions of CPU-23, a substituted tetrahydroisoquinoline, 109, 113
- Cromakalim**, Effects of cromakalim on the electrical slow wave in the circular muscle of guinea-pig gastric antrum, 109, 1097
- Effects of potassium channel openers and their antagonists on rat locus coeruleus neurones, 109, 308
  - Effects of rubidium on responses to potassium channel openers in rat

- isolated aorta, 109, 925
- Vasorelaxant mechanism of KRN2391 and nicorandil in porcine coronary arteries of different sizes, 109, 632
  - Cutaneous anaphylaxis**, Immediate inhibitory effect of methylprednisolone sulpentate (U-67590A) on antigen-induced cutaneous and airway anaphylactic responses in guinea-pigs, 108, 604
  - (-)-[<sup>125</sup>I]-Cyanopindolol, Characterization of propranolol-resistant (-)-[<sup>125</sup>I]-cyanopindolol binding sites in rat soleus muscle, 109, 344
  - Cyclic AMP**, Adenosine receptor-induced second messenger production in adult guinea-pig cerebellum, 110, 1085
    - Adenylate cyclase-mediated vascular responses of rabbit aorta, mesenteric artery and skin microcirculation, 110, 633
    - Cardiotonic actions of selective phosphodiesterase inhibitors in rat isolated ventricular cardiomyocytes, 110, 1387
    - Characterization of P<sub>2</sub>-purinoceptor mediated cyclic AMP formation in mouse C2C12 myotubes, 110, 133
    - Cyclic AMP and Ca<sup>2+</sup> interactions affecting epithelial chloride secretion in human cultured colonic epithelia, 108, 462
    - Effect of bradykinin and prostaglandins on the release of calcitonin gene-related peptide-like immunoreactivity from the rat spinal cord *in vitro*, 108, 185
    - Effect of flosequinan on ischaemia-induced arrhythmias and on ventricular cyclic nucleotide content in the anaesthetized rat, 108, 1111
    - The effects of  $\beta$ -adrenoceptor activation on contraction in isolated fast- and slow-twitch skeletal muscle fibres of the rat, 110, 1133
    - Effects of a water-soluble forskolin derivative (NKH477) and a membrane-permeable cyclic AMP analogue on noradrenaline-induced Ca<sup>2+</sup> mobilization in smooth muscle of rabbit mesenteric artery, 110, 1117
    - Existence of rolipram-sensitive phosphodiesterase in rat megakaryocyte, 109, 1020
    - GABA<sub>B</sub> receptors modulate catecholamine secretion in chromaffin cells by a mechanism involving cyclic AMP formation, 110, 1586
    - Incomplete reversal of  $\beta$ -adrenoceptor desensitization in human and guinea-pig cardiomyocytes by cyclic nucleotide phosphodiesterase inhibitors, 109, 1071
    - Leukotriene D<sub>4</sub> receptors are not negatively coupled to adenylyl cyclase in guinea-pig lung parenchyma, 108, 824
    - Lymphocyte  $\beta_2$ -adrenoceptors and adenosine 3':5'-cyclic monophosphate during and after normal pregnancy, 108, 356
    - Pharmacological characterization of the dopamine receptor coupled to cyclic AMP formation expressed by rat mesenteric artery vascular smooth muscle cells in culture, 110, 681
    - Pharmacological characterization of the metabotropic glutamate receptor inhibiting D-[<sup>3</sup>H]-aspartate output in rat striatum, 110, 1407
    - Post-receptor pathway of the ATP-induced relaxation in smooth muscle of the mouse vas deferens, 110, 326
    - Role of cyclic AMP in promoting the thromboresistance of human endothelial cells by enhancing thrombomodulin and decreasing tissue factor activities, 109, 18
  - Cyclic AMP accumulation**, Salmeterol, a long-acting  $\beta_2$ -adrenoceptor agonist mediating cyclic AMP accumulation in a neuronal cell line, 110, 619
  - Cyclic AMP-dependent protein kinase**, Leukotriene D<sub>4</sub> receptors are not negatively coupled to adenylyl cyclase in guinea-pig lung parenchyma, 108, 824
    - Protein kinase regulation of muscarinic receptor signalling in colonic smooth muscle, 108, 613
  - Cyclic GMP**, Acetylcholine-induced endothelium-independent relaxations in monkey isolated superior and inferior caval veins, 109, 992
    - Adenosine receptor-induced second messenger production in adult guinea-pig cerebellum, 110, 1085
    - Adenylate cyclase-mediated vascular responses of rabbit aorta, mesenteric artery and skin microcirculation, 110, 633
    - Attenuation of contractions to acetylcholine in canine bronchi by an endogenous nitric oxide-like substance, 109, 887
    - The effect of endothelins on nitric oxide and prostacyclin production from human umbilical vein, porcine aorta and bovine carotid artery endothelial cells in culture, 109, 1128
    - Effect of flosequinan on ischaemia-induced arrhythmias and on ventricular cyclic nucleotide content in the anaesthetized rat, 108, 1111
    - The effect of nitric oxide on the efficacy of synaptic transmission through the chick ciliary ganglion, 110, 627
  - Endothelin-3-induced relaxation of rat thoracic aorta: a role for nitric oxide formation, 108, 1125
  - L-Arginine exerts a dual role in nociceptive processing in the brain: involvement of the kyotorphin-Met-enkephalin pathway and NO-cyclic GMP pathway, 109, 73
  - Leukotriene D<sub>4</sub> receptors are not negatively coupled to adenylyl cyclase in guinea-pig lung parenchyma, 108, 824
  - S-Nitrosocysteine, but not sodium nitroprusside, produces apamin-sensitive hyperpolarization in rat gastric fundus, 109, 415
  - Porcine ventricular endocardial cells in culture express the inducible form of nitric oxide synthase, 108, 1107
  - Prevention of nitric oxide synthase induction in vascular smooth muscle cells by microtubule depolymerizing agents, 109, 603
  - Role of cyclic AMP in promoting the thromboresistance of human endothelial cells by enhancing thrombomodulin and decreasing tissue factor activities, 109, 18
  - Cyclic GMP analogues**, Photodynamic action of aluminium phthalocyanine tetrasulphonate (AlPcS<sub>4</sub>) on smooth muscle: effects of thiols and a cyclic GMP analogue, 110, 1248
  - Cyclic nucleotide phosphodiesterase isoenzymes**, The effect of cyclic AMP and cyclic GMP phosphodiesterase inhibitors on the superoxide burst of guinea-pig peritoneal macrophages, 108, 876
  - Cyclo-oxygenase**, The effects of evening primrose oil on nerve function and capillarization in streptozotocin-diabetic rats: modulation by the cyclo-oxygenase inhibitor flurbiprofen, 109, 972
    - Eicosanoid-dependence of responses of pre- but not postglomerular vessels to noradrenaline in rat isolated kidneys, 110, 235
    - Endothelin-1 in the rabbit: interactions with cyclo-oxygenase and NO-synthase products, 108, 838
    - Leukotriene D<sub>4</sub> receptors are not negatively coupled to adenylyl cyclase in guinea-pig lung parenchyma, 108, 824
    - Role of oxygen radicals and arachidonic acid metabolites in the reverse passive Arthus reaction and carrageenin paw oedema in the rat, 110, 896
  - Cyclo-oxygenase inhibitors**, Effect of the platelet-activating factor antagonist, TCV-309, and the cyclo-oxygenase inhibitor, ibuprofen, on the haemodynamic changes in canine experimental endotoxic shock, 110, 1501
  - $\beta$ -Cyclodextrin**, Effects of 5-HT-receptor and  $\alpha_2$ -adrenoceptor ligands on the haemodynamic response to acute central hypovolaemia in conscious rabbits, 109, 37
  - Cycloheximide**, Porcine ventricular endocardial cells in culture express the inducible form of nitric oxide synthase, 108, 1107
    - Selective inhibition by dexamethasone of induction of NO synthase, but not of induction of L-arginine transport, in activated murine macrophage J774 cells, 110, 1401
  - 8-Cyclopentyl-1,3-dipropylxanthine**, The diuretic action of 8-cyclopentyl-1,3-dipropylxanthine, a selective A<sub>1</sub> adenosine receptor antagonist, 109, 271
  - Cyclopiazonic acid**, Cyclopiazonic acid, an inhibitor of Ca<sup>2+</sup>-ATPase in sarcoplasmic reticulum, increases excitability in ileal smooth muscle, 110, 565
    - Possible action of cyclopiazonic acid on myocardial sarcoplasmic reticulum: inotropic effects on neonatal and adult rat heart, 108, 571
  - Cyclosporins**, Effects of the immunosuppressants cyclosporin A and FK 506 on exocytosis in the rat exocrine pancreas *in vitro*, 108, 892
    - Inhibition by rapamycin of leukocyte migration and bronchial hyperreactivity induced by injection of Sephadex beads to guinea-pigs, 110, 1381
  - Cyproheptadine**, 5-HT<sub>2</sub> antagonists reduce morphine self-administration in rats, 110, 1341
  - Cystometry**, Effects of morphine metabolites on micturition in normal, unanaesthetized rats, 110, 257
    - Functional importance of cholinergic and purinergic neurotransmission for micturition contraction in the normal, unanaesthetized rat, 109, 473
  - Cytidine monophosphorylphosphatidate**, Characterization of the effects of lithium on phosphatidylinositol (PI) cycle activity in human muscarinic m1 receptor-transfected CHO cells, 110, 809
  - Cytochrome P450 2C isozymes**, Human liver microsomal metabolism of the enantiomers of warfarin and acenocoumarol: P450 isozyme diversity determines the differences in their pharmacokinetics, 110, 482
  - Cytokines**, Bradykinin initiates cytokine-mediated inflammatory hyperalgesia, 110, 1227
    - Induction by endotoxin of nitric oxide synthase in the rat mesentery:

- lack of effect on action of vasoconstrictors, 109, 265
- Nitric oxide mediates the inhibition by interleukin-18 of pentagastrin-stimulated rat gastric acid secretion, 108, 9
- Cytoskeleton**, Prevention of nitric oxide synthase induction in vascular smooth muscle cells by microtubule depolymerizing agents, 109, 603

## D

- 4-DAMP mustard**, Selective inactivation of muscarinic  $M_2$  and  $M_3$  receptors in guinea-pig ileum and atria *in vitro*, 109, 946
- DAU 6215**, Characterization of the 5-HT<sub>1</sub> receptor mediating tachycardia in piglet isolated right atrium, 110, 1023
- Dazmegrel**, Leukotriene D<sub>4</sub> receptors are not negatively coupled to adenylyl cyclase in guinea-pig lung parenchyma, 108, 824
- DDT<sub>1</sub>MF-2 cells**, Adenosine A<sub>1</sub>-receptor stimulated increases in intracellular calcium in the smooth muscle cell line, DDT<sub>1</sub>MF-2, 108, 85
- Histamine H<sub>1</sub>-receptor-mediated inositol phospholipid hydrolysis in DDT<sub>1</sub>MF-2 cells: agonist and antagonist properties, 108, 196
- Intracellular cross-talk between receptors coupled to phospholipase C via pertussis toxin-sensitive and insensitive G-proteins in DDT<sub>1</sub>MF-2 cells, 109, 719
- Defibrotide**, The effect of defibrotide on thromboembolism in the pulmonary vasculature of mice and rabbits and in the cerebral vasculature of rabbits, 110, 1565
- Delayed rectifier (K<sub>v</sub>)**, Induction of a glibenclamide-sensitive K-current by modification of a delayed rectifier channel in rat portal vein and insulinoma cells, 110, 1280
- Levromakalim may induce a voltage-independent K-current in rat portal veins by modifying the gating properties of the delayed rectifier, 110, 1037
- Denbufylline**, Investigation into the role of phosphodiesterase IV in bronchorelaxation, including studies with human bronchus, 108, 562
- Dendrotoxins**, Action of  $\alpha$ -dendrotoxin on K<sup>+</sup> currents in nerve terminal regions of axons in rat olfactory cortex, 109, 535
- Structural features important for the biological activity of the potassium channel blocking dendrotoxins, 110, 790
- Dependence**, Evidence for functional dissociation of dependence and tolerance in guinea-pig isolated ileal segments following 20 hour exposure to morphine *in vitro*, 110, 1522
- Depolarization**, Effects of hyperkalaemia on the depression of maximum rate of depolarization by class I antiarrhythmic agents in guinea-pig myocardium, 108, 255
- Deprenyl**, Antiepileptic drug pharmacokinetics and neuropharmacokinetics in individual rats by repetitive withdrawal of blood and cerebrospinal fluid: milacemide, 108, 1117
- Des-Arg<sup>9</sup> bradykinin**, Induction of bradykinin B<sub>1</sub> receptors *in vivo* in a model of ultra-violet irradiation-induced thermal hyperalgesia in the rat, 110, 1441
- Mediation by B<sub>1</sub> and B<sub>2</sub> receptors of vasodepressor responses to intravenously administered kinins in anaesthetized dogs, 110, 71
- Desensitization**, 5-Hydroxyindole slows desensitization of the 5-HT<sub>1</sub> receptor-mediated ion current in N1E-115 neuroblastoma cells, 108, 287
- Characterization of 5-HT<sub>1</sub> receptors of N1E-115 neuroblastoma cells by use of the influx of the organic cation [<sup>14</sup>C]-guanidinium, 108, 436
- Desensitization of histamine H<sub>1</sub> receptor-mediated inositol phosphate accumulation in guinea pig cerebral cortex slices, 110, 269
- Desensitization of histamine H<sub>1</sub> receptor-mediated inositol phosphate production in HeLa cells, 109, 353
- Desensitization of the P<sub>2</sub>-purinoceptors on the rat colon muscularis mucosae, 110, 501
- Functional characterization of a 5-HT<sub>1</sub> receptor which modulates the release of 5-HT in the guinea-pig brain, 108, 13
- Homologous and heterologous desensitization of histamine H<sub>1</sub>- and ATP-receptors in the smooth muscle cell line, DDT<sub>1</sub>MF-2: the role of protein kinase C, 110, 1449
- Mechanism of staurosporine-induced decrease in acetylcholine receptor recovery from desensitization, 108, 741
- Novel regulation of muscarinic receptors and their coupling with G proteins in smooth muscle: transient resensitization during desensitizing process, 109, 330
- Whole cell and single channel analysis of the kinetics of glycine-sensitive N-methyl-D-aspartate receptor desensitization, 109, 213
- O-Desmethyltramadol**, Effects of the central analgesic tramadol and its main metabolite, O-desmethyltramadol, on rat locus coeruleus neurones, 110, 169
- Development**, Effect of delayed weaning on opioid receptor control of swim stress-induced antinociception in the developing rat, 109, 651
- Postnatal changes in N-methyl-D-aspartate receptor binding and stimulation by glutamate and glycine of [<sup>3</sup>H]-MK-801 binding in human temporal cortex, 108, 1143
- Dexamethasone**, Bacterial endotoxin rapidly stimulates prolonged endothelium-dependent vasodilatation in the rat isolated perfused heart, 109, 987
- Effect of dexamethasone on neutrophil accumulation and oedema formation in rabbit skin: an investigation of site of action, 108, 959
- A factor released by monocytes in the presence of dexamethasone stimulates neutrophil locomotion, 108, 248
- Immediate inhibitory effect of methylprednisolone sultetanate (U-67590A) on antigen-induced cutaneous and airway anaphylactic responses in guinea-pigs, 108, 604
- Interactions of nitric oxide synthase inhibitors and dexamethasone with  $\alpha$ -adrenoceptor-mediated responses in rat aorta, 109, 495
- Inhibition by rapamycin of leukocyte migration and bronchial hyperreactivity induced by injection of Sephadex beads to guinea-pigs, 110, 1381
- The local anti-inflammatory action of dexamethasone in the rat carrageenin oedema model is reversed by an antiserum to lipocortin 1, 108, 62
- Porcine ventricular endocardial cells in culture express the inducible form of nitric oxide synthase, 108, 1107
- Selective inhibition by dexamethasone of induction of NO synthase, but not of induction of L-arginine transport, in activated murine macrophage J774 cells, 110, 1401
- 1,3-Di(2-tolyl)guanidine (DTG)**, Selective reduction of N-methyl-D-aspartate-evoked responses by 1,3-di(2-tolyl)guanidine in mouse and rat cultured hippocampal pyramidal neurones, 109, 1196
- Diabetes mellitus**, Altered cardiac adrenergic neurotransmission in streptozotocin-induced diabetic rats, 109, 1276
- Amelioration by the Ca<sup>2+</sup> antagonist, nimodipine of an existing neuropathy in the streptozotocin-induced, diabetic rat, 108, 780
- Differential changes of adrenoceptor- and muscarinic receptor-linked prostacyclin synthesis by the aorta and urinary bladder of the diabetic rat, 108, 1131
- Inhibition by hydrochlorothiazide of insulin release and calcium influx in mouse pancreatic  $\beta$ -cells, 110, 1359
- Protection by scoparone against the alterations of plasma lipoproteins, vascular morphology and vascular reactivity in hyperlipidaemic diabetic rabbit, 110, 1508
- Vasoreactivity and prostacyclin release in streptozotocin-diabetic rats: effects of insulin or aldose reductase inhibition, 109, 980
- Diadenosine polyphosphates**, Ap<sub>4</sub>A and ADP- $\beta$ -S binding to P<sub>2</sub> purinoceptors present on rat brain synaptic terminals, 108, 1094
- Diaphragm**, Transmitter-mediated local contracture of the endplate region of the focally innervated mouse diaphragm treated with anticholinesterase, 109, 1178
- Diazepam**, Attenuation of reperfusion hyperalgesia in the rat by systemic administration of benzodiazepines, 110, 1067
- The profiles of interaction of yohimbine with anxiolytic and putative anxiolytic agents to modify 5-HT release in the frontal cortex of freely-moving rats, 110, 1079
- Diazoxide**, Cibenzoline inhibits diazoxide- and 2,4-dinitrophenol-activated ATP-sensitive K<sup>+</sup> channels in guinea-pig ventricular cells, 108, 549
- 2,6-Dibutylbenzylamine**, Calcium modulatory properties of 2,6-dibutylbenzylamine (B25) in rat isolated vas deferens, cardiac and smooth muscle preparations, 109, 1038
- Dibutyl cyclic AMP**, Renal tubular dopamine outward transfer during Na<sup>+</sup>-H<sup>+</sup> exchange activation by  $\alpha_1$ - and  $\alpha_2$ -adrenoceptor agonists, 109, 569
- Dicentrine**, Effects of dicentrine on haemodynamic, plasma lipid, lipoprotein level and vascular reactivity in hyperlipidaemic rats, 108, 1055
- 3,4-Dichlorobenzamil**, 3,4 Dichlorobenzamil-sensitive, monovalent cation channel induced by palytoxin in cultured aortic myocytes, 109, 859
- Digoxin**, Digoxin activates sarcoplasmic reticulum Ca<sup>2+</sup>-release channels: a possible role in cardiac inotropy, 108, 1043
- Dihydroimidazoquinoxaline**, Differential affinity of dihydroimidazoquinoxalines and diimidazoquinazolines to the  $\alpha 1\beta 2\gamma 2$  and  $\alpha 6\beta 2\gamma 2$

- subtypes of cloned GABA<sub>A</sub> receptors, 110, 677
- Dihydropyridine binding sites**, Blockade by calmodulin inhibitors of Ca<sup>2+</sup> channels in smooth muscle from rat vas deferens, 109, 137
- Radioligand and functional estimates of the interaction of the 1,4-dihydropyridines, isradipine and lacidipine, with calcium channels in smooth muscle, 109, 100
- Dihydropyridines**, The action of amlodipine on voltage-operated calcium channels in vascular smooth muscle, 109, 120
- Evidence for an external location of the dihydropyridine agonist receptor site on smooth muscle and skeletal muscle calcium channels, 108, 884
  - Identification of a novel calcium antagonist binding site in rat brain by SR 33557, 108, 93
- Dihydroxyphenylacetic acid (DOPAC)**, Glycine stimulates striatal dopamine release in conscious rats, 110, 50
- Diimidazoquinazoline**, Differential affinity of dihydroimidazoquinoxalines and diimidazoquinazolines to the  $\alpha 182\gamma 2$  and  $\alpha 682\gamma 2$  subtypes of cloned GABA<sub>A</sub> receptors, 110, 677
- 4,4'-Diisothiocyanato stilbene-2,2'-disulphonate (DIDS)**, Two distinct cytosolic calcium responses to extracellular ATP in rat parotid acinar cells, 108, 453
- Diltiazem**, Effects of KRN2391, nicorandil and diltiazem on the changes in the electrocardiogram caused by endothelin-1 in anaesthetized rats, 109, 679
- 1-(2,5-Dimethoxy-4-iodophenyl)-2-aminopropane (DOI)**, The effects of  $\alpha_2$ -adrenoceptor antagonists on the inhibition of 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane (DOI)-induced head shakes by 5-HT<sub>1A</sub> receptor agonists in the mouse, 109, 1046
- Dimethyl- $\beta$ -cyclodextrin (DMBCD)**, Nasal administration of an ACTH(4-9) peptide analogue with dimethyl- $\beta$ -cyclodextrin as absorption enhancer pharmacokinetics and dynamics, 110, 1335
- N<sup>o</sup>,N<sup>o</sup>-Dimethyl-L-arginine**, Regional and cardiac haemodynamic effects of N<sup>o</sup>,N<sup>o</sup>-dimethyl-L-arginine and their reversibility by vasodilators in conscious rats, 110, 1457
- Diphenylalkylamine**, Fendiline inhibits L-type calcium channels in guinea-pig ventricular myocytes: a whole-cell patch-clamp study, 108, 865
- Diphenyleneiodonium (DPI)**, Halothane inhibits the pressor effect of diphenyleneiodonium, 109, 1186
- Inhibitory actions of diphenyleneiodonium on endothelium-dependent vasodilatations *in vitro* and *in vivo*, 110, 1232
- [<sup>3</sup>H]-1,3-Dipropyl-8-cyclopentylxanthine ([<sup>3</sup>H]-DPCPX) binding**, On the high affinity binding site for [<sup>3</sup>H]-1,3-dipropyl-8-cyclopentylxanthine in frog brain membranes, 109, 518
- (-)-Discretamine**, Pharmacological activity of (-)-discretamine, a novel vascular  $\alpha$ -adrenoceptor and 5-hydroxytryptamine receptor antagonist, isolated from *Fissistigma glaucescens*, 110, 882
- Disopyramide**, Antiarrhythmic agents act differently on the activation phase of the ACh-response in guinea-pig atrial myocytes, 108, 111
- Effects of hyperkalaemia on the depression of maximum rate of depolarization by class I antiarrhythmic agents in guinea-pig myocardium, 108, 255
- Diuresis**, The diuretic action of 8-cyclopentyl-1,3-dipropylxanthine, a selective A<sub>1</sub> adenosine receptor antagonist, 109, 271
- Effect of tienoxolol, a new diuretic  $\beta$ -blocking agent, on urinary prostaglandin excretion in the rat, 109, 278
  - Inhibition by hydrochlorothiazide of insulin release and calcium influx in mouse pancreatic  $\beta$ -cells, 110, 1359
- Divalent cation, Ca<sup>2+</sup>-dependent aggregation of rabbit platelets induced by maitotoxin**, a potent marine toxin, isolated from a dinoflagellate, 109, 29
- Dizocilpine (MK-801)**, 5-HT loss in rat brain following 3,4-methylenedioxymethamphetamine (MDMA), *p*-chloroamphetamine and fenfluramine administration and effects of chlormethiazole and dizocilpine, 108, 583
- The glycine/NMDA receptor antagonist, R-(+)-HA-966, blocks activation of the mesolimbic dopaminergic system induced by phencyclidine and dizocilpine (MK-801) in rodents, 108, 1156
  - Lack of effect of L-687,414 ((+)-*cis*-4-methyl-HA-966), an NMDA receptor antagonist acting at the glycine site, on cerebral glucose metabolism and cortical neuronal morphology, 110, 36
  - Striatal dopamine release *in vivo* following neurotoxic doses of methamphetamine and effect of the neuroprotective drugs, chlormethiazole and dizocilpine, 108, 590
- [<sup>3</sup>H]-Dizocilpine binding (MK-801)**, Effects of pH on the actions of dizocilpine at the *N*-methyl-D-aspartate receptor complex, 109, 107
- Domperidone**, Enhancement of D<sub>2</sub> receptor agonist-induced inhibition by D<sub>1</sub> receptor agonist in the ventral tegmental area, 110, 713
- Dopamine**, The effect of lifarizine (RS-87476), a novel sodium and calcium channel modulator, on ischaemic dopamine depletion in the corpus striatum of the gerbil, 109, 175
- Evidence that RU 24969-induced locomotor activity in C57/B1/6 mice is specifically mediated by the 5-HT<sub>1B</sub> receptor, 110, 1621
  - Glycine stimulates striatal dopamine release in conscious rats, 110, 50
  - Kinetic study of the tubular dopamine outward transporter in the rat and dog kidney, 109, 577
  - Renal tubular dopamine outward transfer during Na<sup>+</sup>-H<sup>+</sup> exchange activation by  $\alpha_1$ - and  $\alpha_2$ -adrenoceptor agonists, 109, 569
  - Striatal dopamine release *in vivo* following neurotoxic doses of methamphetamine and effect of the neuroprotective drugs, chlormethiazole and dizocilpine, 108, 590
- Dopamine autoreceptors**, Release-regulating dopamine autoreceptors in human cerebral cortex, 110, 20
- Dopamine carrier**, Selective MPP<sup>+</sup> uptake into synaptic dopamine vesicles: possible involvement in MPTP neurotoxicity, 109, 411
- Dopamine D<sub>1</sub> receptors**, Enhancement of D<sub>2</sub> receptor agonist-induced inhibition by D<sub>1</sub> receptor agonist in the ventral tegmental area, 110, 713
- A mechanism underlying dopamine D<sub>1</sub> and D<sub>2</sub> receptor-mediated inhibition of dopaminergic neurones in the ventral tegmental area *in vitro*, 109, 933
- Dopamine D<sub>2</sub> receptors**, Enhancement of D<sub>2</sub> receptor agonist-induced inhibition by D<sub>1</sub> receptor agonist in the ventral tegmental area, 110, 713
- A mechanism underlying dopamine D<sub>1</sub> and D<sub>2</sub> receptor-mediated inhibition of dopaminergic neurones in the ventral tegmental area *in vitro*, 109, 933
  - Release-regulating dopamine autoreceptors in human cerebral cortex, 110, 20
- Dopamine receptors**, Pharmacological characterization of the dopamine receptor coupled to cyclic AMP formation expressed by rat mesenteric artery vascular smooth muscle cells in culture, 110, 681
- Dopamine receptor agonists**, Enhancement of D<sub>2</sub> receptor agonist-induced inhibition by D<sub>1</sub> receptor agonist in the ventral tegmental area, 110, 713
- Dopamine release**, Effects of the central analgesic tramadol on the uptake and release of noradrenaline and dopamine *in vitro*, 108, 806
- *In vivo* release of dopamine from rat striatum, substantia nigra and prefrontal cortex: differential modulation by baclofen, 109, 814
  - Release-regulating dopamine autoreceptors in human cerebral cortex, 110, 20
  - Striatal dopamine release *in vivo* following neurotoxic doses of methamphetamine and effect of the neuroprotective drugs, chlormethiazole and dizocilpine, 108, 590
- Dopamine turnover**, The glycine/NMDA receptor antagonist, R-(+)-HA-966, blocks activation of the mesolimbic dopaminergic system induced by phencyclidine and dizocilpine (MK-801) in rodents, 108, 1156
- Dopamine uptake**, Effects of the central analgesic tramadol on the uptake and release of noradrenaline and dopamine *in vitro*, 108, 806
- Dose-ratio analysis**, Estimation of competitive antagonist affinity from functional inhibition curves using the Gaddum, Schild and Cheng-Prusoff equations, 109, 1110
- Doxorubicin**, Time-related increases in cardiac concentrations of doxorubicinol could interact with doxorubicin to depress myocardial contractile function, 110, 975
- Doxorubicinol**, Time-related increases in cardiac concentrations of doxorubicinol could interact with doxorubicin to depress myocardial contractile function, 110, 975
- Drug absorption**, Transport of celiprolol across human intestinal epithelial (Caco-2) cells: mediation of secretion by multiple transporters including P-glycoprotein, 110, 1009
- Drug targeting**, Renal selective *N*-acetyl-L- $\gamma$ -glutamyl prodrugs: studies on the selectivity of some model prodrugs, 108, 204
- Drug-drug interactions**, Human liver microsomal metabolism of the enantiomers of warfarin and acenocoumarol: P450 isozyme diversity determines the differences in their pharmacokinetics, 110, 482
- Duodenum, rabbit**, The Leu<sup>13</sup>-motilin (KW-5139)-evoked release of acetylcholine from enteric neurones in the rabbit duodenum, 109, 94
- Dura mater**, Time-dependent blockade of neurogenic plasma extravasation in dura mater by 5-HT<sub>1B/D</sub> agonists and endopeptidase 24.11, 108, 331

E

- Ear, rabbit**, Hypercholesterolaemia severely impairs EDRF-dependent collateral perfusion following acute arterial occlusion in rabbit isolated ear, 109, 838
- Modulation of vasodilatation to levromakalim by hypoxia and EDRF in the rabbit isolated ear: a comparison with pinacidil, sodium nitroprusside and verapamil, 109, 386
- Ecstasy**, 5-HT loss in rat brain following 3,4-methylenedioxymethamphetamine (MDMA), *p*-chloroamphetamine and fenfluramine administration and effects of chlormethiazole and dizocilpine, 108, 583
- Efaroxan**, Antagonism of the stimulatory effects of efaroxan and glibenclamide in rat pancreatic islets by the imidazoline, RX801080, 110, 1017
- Stimulation of insulin secretion by imidazoline compounds is not due to interaction with non-adrenoceptor idazoxan binding sites, 108, 312
- Efferent function of sensory nerves**, A comparison of capsazepine and ruthenium red as capsaicin antagonists in the rat isolated urinary bladder and vas deferens, 108, 801
- Efficacy**, Estimation of partial agonist affinity by interaction with a full agonist: a direct operational model-fitting approach, 110, 239
- Quantitative analysis of the agonist and antagonist actions of some ATP analogues at  $P_{2X}$ -purinoceptors in the rabbit ear artery, 108, 490
- Eicosanoids**, The effects of evening primrose oil on nerve function and capillarization in streptozotocin-diabetic rats: modulation by the cyclo-oxygenase inhibitor flurbiprofen, 109, 972
- Elastase**, Inhibition by recombinant SLPI and half-SLPI (Asn<sup>55</sup>-Ala<sup>107</sup>) of elastase and cathepsin G activities: consequence for neutrophil-platelet cooperation, 108, 1100
- Electrical field stimulation**, Altered cardiac adrenergic neurotransmission in streptozotocin-induced diabetic rats, 109, 1276
- Electrical stimulation**, Prejunctional modulation of the nitrergic innervation of the canine ileocolonic junction via potassium channels, 110, 559
- Electrocardiogram**, Effects of KRN2391, nicorandil and diltiazem on the changes in the electrocardiogram caused by endothelin-1 in anaesthetized rats, 109, 679
- Electrocortical arousal**, Inhibition by *N*<sup>ω</sup>-nitro-L-arginine methyl ester of the electrocortical arousal response in rats, 108, 858
- Electrolyte balance**, Effects of high calcium diet on arterial smooth muscle function and electrolyte balance in mineralocorticoid-salt hypertensive rats, 108, 948
- Electrophysiology**,  $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal K<sup>+</sup>-channels in trachealis muscle: electrophysiological and mechanical studies in guinea-pig tissue, 109, 1140
- Effect of nafamostat mesilate on Na<sup>+</sup> and K<sup>+</sup> transport properties in the rabbit cortical collecting duct, 109, 673
  - Effects of phospholipase A<sub>2</sub> inhibitors on coupling of  $\alpha_2$ -adrenoceptors to inwardly rectifying potassium currents in guinea-pig submucosal neurones, 110, 591
  - Electrophysiological effects of Org 7797 in the closed-chest anaesthetized dog, 110, 23
  - Whole cell and single channel analysis of the kinetics of glycine-sensitive *N*-methyl-D-aspartate receptor desensitization, 109, 213
- Emesis**, Effects of cholinceptor and 5-hydroxytryptamine<sub>3</sub> receptor antagonism on erythromycin-induced canine intestinal motility disruption and emesis, 108, 44
- EMG**, Effects of LY274614, a competitive NMDA receptor antagonist, on the micturition reflex in the urethane-anaesthetized rat, 110, 77
- Enalapril**, Dose-dependent effects of angiotensin converting enzyme (ACE) inhibitors on glomerular prostanoid production by normotensive rats, 108, 327
- Enalaprilat**, Comparison of the effects of EXP3174, an angiotensin II antagonist and enalaprilat on myocardial infarct size in anaesthetized dogs, 110, 969
- Release of nitric oxide from glyceryl trinitrate by captopril but not enalaprilat: *in vitro* and *in vivo* studies, 109, 430
- Enantiomers**, Human liver microsomal metabolism of the enantiomers of warfarin and acenocoumarol: P450 isozyme diversity determines the differences in their pharmacokinetics, 110, 482
- Endogenous digitalis-like factor (EDLF)**, Effects of direct renal arterial infusion of bufalin and ouabain in conscious sheep, 108, 627
- Endopeptidase 24.11**, Effect of endopeptidase-24.11 inhibition and of atrial natriuretic peptide clearance receptor ligand on the response to rat brain natriuretic peptide in the conscious rat, 110, 350
- Time-dependent blockade of neurogenic plasma extravasation in dura mater by 5-HT<sub>1B/D</sub> agonists and endopeptidase 24.11, 108, 331
- $\beta$ -Endorphins**, Inhibition of spinal opioid antinociception by intrathecal  $\beta$ -endorphin<sub>1,27</sub> in the rat, 108, 1137
- Endothelial barrier function**, Arterial endothelial barrier dysfunction: actions of homocysteine and the hypoxanthine-xanthine oxidase free radical generating system, 108, 920
- Endotoxin-induced arterial endothelial barrier dysfunction assessed by an *in vitro* model, 110, 1282
- Endothelial cell membrane receptors**, Impairment of pulmonary-artery endothelium-dependent relaxation in chronic obstructive lung disease is not due to dysfunction of endothelial cell membrane receptors nor to L-arginine deficiency, 109, 587
- Endothelial cells**, Bradykinin-induced release of PGI<sub>2</sub> from aortic endothelial cell lines: responses mediated selectively by Ca<sup>2+</sup> ions or a staurosporine-sensitive kinase, 110, 411
- Cellular mechanism of U78517F in the protection of porcine coronary artery endothelial cells from oxygen radical-induced damage, 108, 1077
  - Conversion of glyceryl trinitrate to nitric oxide in tolerant and non-tolerant smooth muscle and endothelial cells, 108, 162
  - Formation of sulphidopeptide-leukotrienes by cell-cell interaction causes coronary vasoconstriction in isolated, cell-perfused heart of rabbit, 110, 1206
  - Mg<sup>2+</sup> and caffeine-induced intracellular Ca<sup>2+</sup> release in human vascular endothelial cells, 109, 291
  - PAF activation of a voltage-gated R-type Ca<sup>2+</sup> channel in human and canine aortic endothelial cells, 110, 519
  - Propofol stimulates nitric oxide release from cultured porcine aortic endothelial cells, 109, 6
  - Release of nitric oxide from glyceryl trinitrate by captopril but not enalaprilat: *in vitro* and *in vivo* studies, 109, 430
  - Role of cyclic AMP in promoting the thromboresistance of human endothelial cells by enhancing thrombomodulin and decreasing tissue factor activities, 109, 18
  - Roles of prostacyclin, EDRF and active oxygens in leukocyte-dependent platelet adhesion to endothelial cells induced by platelet-activating factor *in vitro*, 109, 524
- Endothelial cells, aortic**, The effect of endothelins on nitric oxide and prostacyclin production from human umbilical vein, porcine aorta and bovine carotid artery endothelial cells in culture, 109, 1128
- Endothelial cells, bovine**, Inhibition of rat cerebellar nitric oxide synthase by 7-nitro indazole and related substituted indazoles, 110, 225
- Endothelial cells, carotid artery**, The effect of endothelins on nitric oxide and prostacyclin production from human umbilical vein, porcine aorta and bovine carotid artery endothelial cells in culture, 109, 1128
- Endothelial cells, umbilical vein**, The effect of endothelins on nitric oxide and prostacyclin production from human umbilical vein, porcine aorta and bovine carotid artery endothelial cells in culture, 109, 1128
- Endothelial-derived mediators**, Neuronal and endothelium-derived mediators in the modulation of the gastric microcirculation: integrity in the balance, 110, 3
- Endothelins**, Comparison of the cardiovascular and neural activity of endothelin-1, -2, -3 and respective proendothelins: effects of phosphoramidon and thiorphan, 110, 331
- Differential localization of endothelin ET<sub>A</sub> and ET<sub>B</sub> binding sites in human placenta, 109, 544
  - The effect of endothelins on nitric oxide and prostacyclin production from human umbilical vein, porcine aorta and bovine carotid artery endothelial cells in culture, 109, 1128
  - Effects of KRN2391, nicorandil and diltiazem on the changes in the electrocardiogram caused by endothelin-1 in anaesthetized rats, 109, 679
  - Endothelin receptors mediating contraction in goat cerebral arteries, 109, 826
  - Endothelin-1 in the rabbit: interactions with cyclo-oxygenase and NO-synthase products, 108, 838
  - Evidence for heterogeneity of endothelin receptor distribution in human coronary artery, 110, 1201
  - Incomplete inhibition of the pressor effects of endothelin-1 and related peptides in the anaesthetized rat with BQ-123 provides evidence for more than one vasoconstrictor receptor, 108, 557

- Mediation of endothelin-1-induced inhibition of platelet aggregation via the ET<sub>B</sub> receptor, 109, 530
- Mediation via different receptors of the vasoconstrictor effects of endothelins and sarafotoxins in the systemic circulation and renal vasculature of the anaesthetized rat, 108, 776
- A novel ET<sub>A</sub>-receptor antagonist, FR 139317, inhibits endothelin-induced contractions of guinea-pig pulmonary arteries, but not trachea, 108, 448
- Neuronal and endothelium-derived mediators in the modulation of the gastric microcirculation: integrity in the balance, 110, 3
- Role of extracellular and intracellular sources of Ca<sup>2+</sup> in sarafotoxin S6b-induced contraction of strips of the rat aorta, 108, 30
- Endothelin (16-21)**, Endothelin (16-21): biphasic effect and no desensitization on the guinea-pig isolated ileum, 109, 68
- Endothelin ET<sub>A</sub> receptors**, Endothelin receptor subtypes in human and guinea-pig pulmonary tissues, 110, 1175
- Endothelin receptors mediating contraction in goat cerebral arteries, 109, 826
- Enhancement by endothelin-1 of microvascular permeability via the activation of ET<sub>A</sub> receptors, 109, 880
- Incomplete inhibition of the pressor effects of endothelin-1 and related peptides in the anaesthetized rat with BQ-123 provides evidence for more than one vasoconstrictor receptor, 108, 557
- Mechanism of rat uterine smooth muscle contraction induced by endothelin-1, 110, 1437
- A novel ET<sub>A</sub>-receptor antagonist, FR 139317, inhibits endothelin-induced contractions of guinea-pig pulmonary arteries, but not trachea, 108, 448
- Endothelin ET<sub>A</sub> receptor antagonists**, Evidence for heterogeneity of endothelin receptor distribution in human coronary artery, 110, 1201
- Mediation of endothelin-1-induced inhibition of platelet aggregation via the ET<sub>B</sub> receptor, 109, 530
- Endothelin ET<sub>A</sub>/ET<sub>B</sub> receptor antagonists**, Mediation of endothelin-1-induced inhibition of platelet aggregation via the ET<sub>B</sub> receptor, 109, 530
- Endothelin ET<sub>B</sub> receptors**, Endothelin receptor subtypes in human and guinea-pig pulmonary tissues, 110, 1175
- Incomplete inhibition of the pressor effects of endothelin-1 and related peptides in the anaesthetized rat with BQ-123 provides evidence for more than one vasoconstrictor receptor, 108, 557
- Mechanism of rat uterine smooth muscle contraction induced by endothelin-1, 110, 1437
- Endothelin ET<sub>B</sub> receptor agonists**, Induction of endothelium-dependent relaxation in the rat aorta by IRL 1620, a novel and selective agonist at the endothelin ET<sub>B</sub> receptor, 109, 486
- Endothelin ET<sub>B</sub> receptor antagonists**, Induction of endothelium-dependent relaxation in the rat aorta by IRL 1620, a novel and selective agonist at the endothelin ET<sub>B</sub> receptor, 109, 486
- Endothelin receptors**, Characterization of endothelin receptors mediating the effects of the endothelin/sarafotoxin peptides on autonomic neurotransmission in the rat vas deferens and guinea-pig ileum, 110, 783
- Characterization of receptors for endothelins in the perfused arterial and venous mesenteric vasculatures of the rat, 110, 687
- Endothelin-1 (ET-1)-induced contraction in rat isolated trachea: involvement of ET<sub>A</sub> and ET<sub>B</sub> receptors and multiple signal transduction systems, 110, 435
- Evidence for heterogeneity of endothelin receptor distribution in human coronary artery, 110, 1201
- Use of the endothelin antagonists BQ-123 and PD 142893 to reveal three endothelin receptors mediating smooth muscle contraction and the release of EDRF, 110, 777
- Endothelin receptor antagonists**, Characterization of endothelin receptors mediating the effects of the endothelin/sarafotoxin peptides on autonomic neurotransmission in the rat vas deferens and guinea-pig ileum, 110, 783
- Characterization of receptors for endothelins in the perfused arterial and venous mesenteric vasculatures of the rat, 110, 687
- Mediation via different receptors of the vasoconstrictor effects of endothelins and sarafotoxins in the systemic circulation and renal vasculature of the anaesthetized rat, 108, 776
- Use of the endothelin antagonists BQ-123 and PD 142893 to reveal three endothelin receptors mediating smooth muscle contraction and the release of EDRF, 110, 777
- Endothelin receptor subtypes**, Differential effects of BQ-123 against endothelin-1 and endothelin-3 on the rat vas deferens: evidence for an atypical endothelin receptor, 109, 736
- Differential localization of endothelin ET<sub>A</sub> and ET<sub>B</sub> binding sites in human placenta, 109, 544
- Endothelin receptor subtypes in human and guinea-pig pulmonary tissues, 110, 1175
- Endothelin-1**, The actions of nitric oxide donors in the prevention or induction of injury to the rat gastric mucosa, 108, 73
- Characterization of endothelin receptors mediating the effects of the endothelin/sarafotoxin peptides on autonomic neurotransmission in the rat vas deferens and guinea-pig ileum, 110, 783
- Characterization of receptors for endothelins in the perfused arterial and venous mesenteric vasculatures of the rat, 110, 687
- Comparison of haemoconcentration induced by big endothelin-1 and endothelin-1 in mice, 110, 1395
- Differential effects of BQ-123 against endothelin-1 and endothelin-3 on the rat vas deferens: evidence for an atypical endothelin receptor, 109, 736
- Endothelin (16-21): biphasic effect and no desensitization on the guinea-pig isolated ileum, 109, 68
- Endothelin receptor subtypes in human and guinea-pig pulmonary tissues, 110, 1175
- Endothelin-1 does not mediate hypoxic vasoconstriction in canine isolated blood vessels: effect of BQ-123, 108, 418
- Endothelin-1 (ET-1)-induced contraction in rat isolated trachea: involvement of ET<sub>A</sub> and ET<sub>B</sub> receptors and multiple signal transduction systems, 110, 435
- Endothelin-induced contraction and mediator release in human bronchus, 110, 392
- Enhancement by endothelin-1 of microvascular permeability via the activation of ET<sub>A</sub> receptors, 109, 880
- Induction by endothelin-1 of epithelium-dependent relaxation of guinea-pig trachea *in vitro*: role for nitric oxide, 109, 637
- Induction by endotoxin of nitric oxide synthase in the rat mesentery: lack of effect on action of vasoconstrictors, 109, 265
- Mechanism of rat uterine smooth muscle contraction induced by endothelin-1, 110, 1437
- Metabolism of endothelin-1 and big endothelin-1 by recombinant neutral endopeptidase EC.3.4.24.11, 109, 1024
- Nitric oxide modulates vascular permeability in the rat coronary circulation, 108, 323
- The paradoxical vascular interactions between endothelin-1 and calcitonin gene-related peptide in the rat gastric mucosal microcirculation, 110, 496
- Protein kinase C inhibitors enhance endothelin-1 and attenuate vasopressin and angiotensin II evoked [Ca<sup>2+</sup>]<sub>i</sub> elevation in the rat cardiomyocyte, 108, 6
- Regional haemodynamic responses to intravenous and intraarterial endothelin-1 and big endothelin-1 in conscious rats, 110, 1532
- Relative contributions of direct and indirect mechanisms mediating endothelin-induced contraction of guinea-pig trachea, 110, 955
- Use of the endothelin antagonists BQ-123 and PD 142893 to reveal three endothelin receptors mediating smooth muscle contraction and the release of EDRF, 110, 777
- Vascular responses to endothelin-1 following inhibition of nitric oxide synthesis in the conscious rat, 110, 1213
- Endothelin-1, big**, Comparison of haemoconcentration induced by big endothelin-1 and endothelin-1 in mice, 110, 1395
- Metabolism of endothelin-1 and big endothelin-1 by recombinant neutral endopeptidase EC.3.4.24.11, 109, 1024
- Regional haemodynamic responses to intravenous and intraarterial endothelin-1 and big endothelin-1 in conscious rats, 110, 1532
- Endothelin-3**, Characterization of receptors for endothelins in the perfused arterial and venous mesenteric vasculatures of the rat, 110, 687
- Differential effects of BQ-123 against endothelin-1 and endothelin-3 on the rat vas deferens: evidence for an atypical endothelin receptor, 109, 736
- Endothelin (16-21): biphasic effect and no desensitization on the guinea-pig isolated ileum, 109, 68
- Endothelin-1 does not mediate hypoxic vasoconstriction in canine isolated blood vessels: effect of BQ-123, 108, 418
- Endothelin-3-induced relaxation of rat thoracic aorta: a role for nitric oxide formation, 108, 1125
- Induction of endothelium-dependent relaxation in the rat aorta by IRL 1620, a novel and selective agonist at the endothelin ET<sub>B</sub> receptor, 109, 486

- Endothelium**,  $A_2$ -purinoceptor-mediated relaxation in the guinea-pig coronary vasculature: a role for nitric oxide, 109, 424
- Allopurinol and amlodipine improve coronary vasodilatation after myocardial ischaemia and reperfusion in anaesthetized dogs, 108, 342
  - $\beta$ -Adrenoceptor agonist mediated relaxation of rat isolated resistance arteries: a role for the endothelium and nitric oxide, 108, 631
  - Blockade by glibenclamide of the flow-evoked endothelial release of ATP that contributes to vasodilatation in the pulmonary vascular bed of the rat, 109, 466
  - Cerebral blood flow and cerebrovascular reactivity after inhibition of nitric oxide synthesis in conscious goats, 110, 428
  - Differential inhibition by  $N^G$ -monomethyl-L-arginine of vasodilator effects of acetylcholine and methacholine in human forearm vasculature, 110, 736
  - EDRF release from canine coronary artery by lectins, 110, 1473
  - Effect of activation on adhesion of flowing neutrophils to cultured endothelium: time course and inhibition by a calcium channel blocker (nitrendipine), 110, 1630
  - Endothelin-1 does not mediate hypoxic vasoconstriction in canine isolated blood vessels: effect of BQ-123, 108, 418
  - Endothelin-3-induced relaxation of rat thoracic aorta: a role for nitric oxide formation, 108, 1125
  - Evidence that a form of ATP uncomplexed with divalent cations is the ligand of  $P_{2y}$  and nucleotide/ $P_{2u}$  receptors on aortic endothelial cells, 109, 967
  - Impaired sensory-motor nerve function in the isolated mesenteric arterial bed of streptozotocin-diabetic and ganglioside-treated streptozotocin-diabetic rats, 110, 1105
  - Influences of the endothelium and hypoxia on neurogenic transmission in the isolated pulmonary artery of the rabbit, 108, 150
  - Involvement of nitric oxide in the endothelium-dependent relaxation induced by hydrogen peroxide in the rabbit aorta, 110, 151
  - Involvement of nitric oxide synthase in the delayed vasodilator response to ultraviolet light irradiation of rat skin *in vivo*, 109, 802
  - The paradoxical vascular interactions between endothelin-1 and calcitonin gene-related peptide in the rat gastric mucosal microcirculation, 110, 496
  - Porcine ventricular endocardial cells in culture express the inducible form of nitric oxide synthase, 108, 1107
  - The regulation of aortic endothelial cells by purines and pyrimidines involves co-existing  $P_{2y}$ -purinoceptors and nucleotide receptors linked to phospholipase C, 108, 689
  - Selective inhibition of basal but not agonist-stimulated activity of nitric oxide in rat aorta by  $N^G$ -monomethyl-L-arginine, 110, 1003
  - Support of renal blood flow after ischaemic-reperfusion injury by endogenous formation of nitric oxide and of cyclo-oxygenase vasodilator metabolites, 109, 188
  - Vascular actions of purines in the foetal circulation of the human placenta, 110, 454
- Endothelium, cultured**, Monocrotaline pyrrole-induced changes in angiotensin-converting enzyme activity of cultured pulmonary artery endothelial cells, 110, 597
- Endothelium, vascular**, Selective inhibition of agonist-induced but not shear stress-dependent release of endothelial autacoids by thapsigargin, 108, 100
- Endothelium-dependent relaxations**, Characterization of endothelin receptors mediating the effects of the endothelin/sarafotoxin peptides on autonomic neurotransmission in the rat vas deferens and guinea-pig ileum, 110, 783
- Differential effects of hydroxocobalamin on NO-mediated relaxations in rat aorta and anococcygeus muscle, 108, 3
  - Endothelium-dependent noradrenaline-induced relaxation of rat isolated cerebral arteries: pharmacological characterization of receptor subtypes involved, 110, 1321
  - Induction of endothelium-dependent relaxation in the rat aorta by IRL 1620, a novel and selective agonist at the endothelin  $ET_B$  receptor, 109, 486
  - Inhibitory actions of diphenyleneiodonium on endothelium-dependent vasodilations *in vitro* and *in vivo*, 110, 1232
  - Use of the endothelin antagonists BQ-123 and PD 142893 to reveal three endothelin receptors mediating smooth muscle contraction and the release of EDRF, 110, 777
- Endothelium-dependent vasodilatation**, The effect of  $N^G$ -nitro-L-arginine methyl ester upon basal blood flow and endothelium-dependent vasodilatation in the dog hindlimb, 108, 763
- Halothane inhibits the pressor effect of diphenyleneiodonium, 109, 1186
- Endothelium-derived contractile factor**, Endothelin-1 does not mediate hypoxic vasoconstriction in canine isolated blood vessels: effect of BQ-123, 108, 418
- Endothelium-derived relaxing factor**, Acetylcholine-induced relaxation in bovine isolated mesenteric arteries is suppressed by polymorphonuclear leukocytes, 109, 8
- Bradykinin-induced release of  $PGI_2$  from aortic endothelial cell lines: responses mediated selectively by  $Ca^{2+}$  ions or a staurosporine-sensitive kinase, 110, 411
  - EDRF release from canine coronary artery by lectins, 110, 1473
  - The effect of endothelins on nitric oxide and prostacyclin production from human umbilical vein, porcine aorta and bovine carotid artery endothelial cells in culture, 109, 1128
  - The effect of  $N^G$ -nitro-L-arginine methyl ester upon basal blood flow and endothelium-dependent vasodilatation in the dog hindlimb, 108, 763
  - Effects of heparin on the vasodilator action of protamine in the rabbit mesenteric artery, 109, 1247
  - Endothelin-1 in the rabbit: interactions with cyclo-oxygenase and NO-synthase products, 108, 838
  - Hypercholesterolaemia severely impairs EDRF-dependent collateral perfusion following acute arterial occlusion in rabbit isolated ear, 109, 838
  - Modulation of vasodilatation to levromakalim by hypoxia and EDRF in the rabbit isolated ear: a comparison with pinacidil, sodium nitroprusside and verapamil, 109, 386
  - Roles of prostacyclin, EDRF and active oxygens in leukocyte-dependent platelet adhesion to endothelial cells induced by platelet-activating factor *in vitro*, 109, 524
  - Selective inhibition of agonist-induced but not shear stress-dependent release of endothelial autacoids by thapsigargin, 108, 100
  - Selective inhibition of basal but not agonist-stimulated activity of nitric oxide in rat aorta by  $N^G$ -monomethyl-L-arginine, 110, 1003
- Endothelium-independent relaxation**, Acetylcholine-induced endothelium-independent relaxations in monkey isolated superior and inferior caval veins, 109, 992
- Endotoxaemia**, Serum corticosterone, interleukin-1 and tumour necrosis factor in rat experimental endotoxaemia: comparison between Lewis and Wistar strains, 110, 868
- Endotoxin shock**, Role of tumour necrosis factor in the induction of nitric oxide synthase in a rat model of endotoxin shock, 110, 177
- Endotoxins**, Aminoguanidine selectively inhibits inducible nitric oxide synthase, 110, 963
- Effect of the platelet-activating factor antagonist, TCV-309, and the cyclo-oxygenase inhibitor, ibuprofen, on the haemodynamic changes in canine experimental endotoxin shock, 110, 1501
  - Endotoxin-induced arterial endothelial barrier dysfunction assessed by an *in vitro* model, 110, 1282
  - The induction of nitric oxide synthase and intestinal vascular permeability by endotoxin in the rat, 110, 1189
  - Nitric oxide mediates the inhibition by interleukin-18 of pentagastrin-stimulated rat gastric acid secretion, 108, 9
  - Nitric oxide-mediated hyporeactivity to noradrenaline precedes the induction of nitric oxide synthase in endotoxin shock, 108, 786
  - Peripheral endotoxin induces hypothalamic immunoreactive interleukin-18 in the rat, 109, 289
  - Prevention of nitric oxide synthase induction in vascular smooth muscle cells by microtubule depolymerizing agents, 109, 603
- Endplates**, Ion channel blockade by oximes and recovery of diaphragm muscle from soman poisoning *in vitro*, 108, 1006
- Enkephalins**, L-Arginine exerts a dual role in nociceptive processing in the brain: involvement of the kyotorphin-Met-enkephalin pathway and NO-cyclic GMP pathway, 109, 73
- Regulation of neural responses in the canine pyloric sphincter by opioids, 108, 1024
- Enkephalin-metabolizing enzyme inhibitors**, Modulation of opioid antinociception by CCK at the supraspinal level: evidence of regulatory mechanisms between CCK and enkephalin systems in the control of pain, 109, 1064
- Enteric nervous system**, Inhibition of nitric oxide synthesis reveals non-cholinergic excitatory neurotransmission in the canine proximal colon, 109, 739
- Regulation of neural responses in the canine pyloric sphincter by opioids, 108, 1024
- Enteric neurones**, Effects of phospholipase  $A_2$  inhibitors on coupling

- of  $\alpha_2$ -adrenoceptors to inwardly rectifying potassium currents in guinea-pig submucosal neurones, 110, 591
- Enthalpy**, The thermodynamics of antagonist binding to rat muscarinic  $M_2$  receptors: antimuscarinics of the pridinol, sila-pridinol, diphenidol and sila-diphenidol type, 109, 360
- Entropy**, The thermodynamics of antagonist binding to rat muscarinic  $M_2$  receptors: antimuscarinics of the pridinol, sila-pridinol, diphenidol and sila-diphenidol type, 109, 360
- Eosinophil cationic protein**, The effect of platelet-activating factor on the responsiveness of the human nasal airway, 110, 113
- Eosinophils**, Characterization and pharmacological modulation of antigen-induced peritonitis in actively sensitized mice, 110, 917
- Comparison of the anti-inflammatory properties of formoterol, salbutamol and salmeterol in guinea-pig skin and lung, 110, 613
  - A comparison of the effects of polyarginine and stimulated eosinophils on the responsiveness of the bovine isovolumic bronchial segment preparation, 109, 553
  - E-type prostaglandins enhance local oedema formation and neutrophil accumulation but suppress eosinophil accumulation in guinea-pig skin, 110, 416
  - Role of prostaglandins and nitric oxide in acute inflammatory reactions in guinea-pig skin, 110, 1515
  - Stimulated eosinophils and proteinases augment the transepithelial flux of albumin in bovine bronchial mucosa, 110, 840
  - Suppression by intradermal administration of heparin of eosinophil accumulation but not oedema formation in inflammatory reactions in guinea-pig skin, 110, 1496
  - Role of leukotrienes in airway hyperresponsiveness in guinea-pigs, 108, 700
- EP 092**, Leukotriene  $D_4$  receptors are not negatively coupled to adenylyl cyclase in guinea-pig lung parenchyma, 108, 824
- Epidermal growth factor**, Interaction of nitric oxide and salivary gland epidermal growth factor in the modulation of rat gastric mucosal integrity, 110, 229
- Epilepsy**, Effects of carbamazepine and baclofen on 4-aminopyridine-induced epileptic activity in rat hippocampal slices, 108, 819
- Epilepsy, temporal lobe**, Inhibition by the adenosine analogue, (*R*)-*N*<sup>6</sup>-phenylisopropyladenosine, of kainic acid neurotoxicity in rat hippocampus after systemic administration, 109, 316
- Epithelial transport**, Transport of celiprolol across human intestinal epithelial (Caco-2) cells: mediation of secretion by multiple transporters including P-glycoprotein, 110, 1009
- Epithelium**, Activation by calcium alone of chloride secretion in  $T_{84}$  epithelial cells, 109, 510
- Active secretion of the fluoroquinolone ciprofloxacin by human intestinal epithelial Caco-2 cell layers, 108, 575
  - Attenuation of contractions to acetylcholine in canine bronchi by an endogenous nitric oxide-like substance, 109, 887
  - Bronchodilatation of guinea-pig perfused bronchioles induced by the  $H_2$ -receptor for histamine: role of epithelium, 109, 960
  - Kinin-induced chloride permeability changes in colony 29 epithelia estimated from  $^{125}\text{I}^-$  efflux and MEQ fluorescence, 108, 469
- Epithelium, cell culture**, Transport of celiprolol across human intestinal epithelial (Caco-2) cells: mediation of secretion by multiple transporters including P-glycoprotein, 110, 1009
- Epithelium, intestinal**, Transport of celiprolol across human intestinal epithelial (Caco-2) cells: mediation of secretion by multiple transporters including P-glycoprotein, 110, 1009
- Epithelium, trachea**, Partial inhibition by epithelium of tracheal smooth muscle relaxation induced by the potassium channel activator, BRL 38227, 110, 139
- Epithelium, colon**, Cyclic AMP and  $\text{Ca}^{2+}$  interactions affecting epithelial chloride secretion in human cultured colonic epithelia, 108, 462
- Epithelium removal**, Relative contributions of direct and indirect mechanisms mediating endothelin-induced contraction of guinea-pig trachea, 110, 955
- Epithelium-derived relaxing factor**, Induction by endothelin-1 of epithelium-dependent relaxation of guinea-pig trachea *in vitro*: role for nitric oxide, 109, 637
- Erythromycin**, Effects of cholinceptor and 5-hydroxytryptamine, receptor antagonism on erythromycin-induced canine intestinal motility disruption and emesis, 108, 44
- Essential fatty acids**, The effects of evening primrose oil on nerve function and capillarization in streptozotocin-diabetic rats: modulation by the cyclo-oxygenase inhibitor flurbiprofen, 109, 972
- Ethanol**, Halothane inhibits the pressor effect of diphenylethylideneiodonium, 109, 1186
- Similar effects of ethanol and flumazenil on acquisition of a shuttle-box avoidance response during withdrawal from chronic ethanol treatment, 110, 753
- Ethanol tolerance**, Similar effects of ethanol and flumazenil on acquisition of a shuttle-box avoidance response during withdrawal from chronic ethanol treatment, 110, 753
- N*-Ethoxy-carbonyl-2-ethoxy-1,2-dihydroquinoline (EEDQ)**, Acceleration by chronic treatment with clorgyline of the turnover of brain  $\alpha_2$ -adrenoceptors in normotensive but not in spontaneously hypertensive rats, 110, 99
- Central  $\alpha_2$ -autoreceptors: agonist dissociation constants and recovery after irreversible inactivation, 108, 370
- 5'-*N*-Ethylcarboxamidoadenosine (NECA)**, Adenosine  $A_3$  receptors mediate hypotension in the angiotensin II-supported circulation of the pithed rat, 109, 3
- Ethylcholine mustard aziridinium ion (AF64A)**,  $\alpha$ -Sialyl cholesterol reverses AF64A-induced deficit in passive avoidance response and depletion of hippocampal acetylcholine in mice, 108, 387
- Ethylisopropylamiloride**, Renal tubular dopamine outward transfer during  $\text{Na}^+\text{-H}^+$  exchange activation by  $\alpha_1$ - and  $\alpha_2$ -adrenoceptor agonists, 109, 569
- Evening primrose oil**, The effects of evening primrose oil on nerve function and capillarization in streptozotocin-diabetic rats: modulation by the cyclo-oxygenase inhibitor flurbiprofen, 109, 972
- Excitation-contraction coupling**, Leukotriene  $D_4$  receptors are not negatively coupled to adenylyl cyclase in guinea-pig lung parenchyma, 108, 824
- Excitatory amino acids**, Inhibition of [ $^3\text{H}$ ]-(+)-MK 801 binding to rat brain sections by CPP and 7-chlorokynurenic acid: an autoradiographic analysis, 108, 577
- A novel metabotropic glutamate receptor agonist: marked depression of monosynaptic excitation in the newborn rat isolated spinal cord, 109, 1169
- Excitatory amino acid receptors**, A comparison of the actions of agonists and antagonists at non-NMDA receptors of C fibres and motoneurons of the immature rat spinal cord *in vitro*, 108, 179
- Thiocyanate ions selectively antagonize AMPA-evoked responses in *Xenopus laevis* oocytes microinjected with rat brain mRNA, 109, 779
- Excitatory amino acid release**, Pharmacological characterization of the metabotropic glutamate receptor inhibiting D-[ $^3\text{H}$ ]-aspartate output in rat striatum, 110, 1407
- Exocrine secretion**, Competitive inhibition by procaine of carbachol-induced stimulus-secretion coupling in rat pancreatic acini, 110, 603
- Exocytosis**, Effects of the immunosuppressants cyclosporin A and FK 506 on exocytosis in the rat exocrine pancreas *in vitro*, 108, 892
- Exosite**, Investigations into factors determining the duration of action of the  $\beta_2$ -adrenoceptor agonist, salmeterol, 108, 507
- EXP 3174**, Comparison of the effects of EXP3174, an angiotensin II antagonist and enalaprilat on myocardial infarct size in anaesthetized dogs, 110, 969
- Comparison of the regional haemodynamic effects of the  $\text{AT}_1$ -receptor antagonists, losartan and EXP 3174, in water-deprived Brattleboro rats, 108, 684
- External urethral sphincter**, Effects of LY274614, a competitive NMDA receptor antagonist, on the micturition reflex in the urethane-anaesthetized rat, 110, 77
- Eye**, Effects of *N*<sup>0</sup>-nitro-L-arginine methyl ester on the cardiovascular system of the anaesthetized rabbit and on the cardiovascular response to thyrotropin-releasing hormone, 109, 1219

## F

- Feeding**, Reciprocal interaction of 5-hydroxytryptamine and cholecystokinin in the control of feeding patterns in rats, 109, 491
- Fendiline**, Fendiline inhibits L-type calcium channels in guinea-pig ventricular myocytes: a whole-cell patch-clamp study, 108, 865
- Fenfluramine**, 5-HT loss in rat brain following 3,4-methylenedioxymethamphetamine (MDMA), *p*-chloroamphetamine and fenfluramine administration and effects of chlormethiazole and dizocilpine, 108, 583
- Reciprocal interaction of 5-hydroxytryptamine and cholecystokinin in the control of feeding patterns in rats, 109, 491
- Fibrinogens**,  $^{125}\text{I}$ -labelled,  $\text{NK}_2$  receptors mediate plasma extravasation in guinea-pig lower airways, 108, 383

- Fibrinolysis**, The effect of defibrotide on thromboembolism in the pulmonary vasculature of mice and rabbits and in the cerebral vasculature of rabbits, **110**, 1565
- Fissistigma glaucescens**, Pharmacological activity of (-)-discretamine, a novel vascular  $\alpha$ -adrenoceptor and 5-hydroxytryptamine receptor antagonist, isolated from *Fissistigma glaucescens*, **110**, 882
- FK224**, Effects of two novel tachykinin antagonists, FK224 and FK888, on neurogenic airway plasma exudation, bronchoconstriction and systemic hypotension in guinea-pigs *in vivo*, **108**, 844
- FK506**, Effects of the immunosuppressants cyclosporin A and FK 506 on exocytosis in the rat exocrine pancreas *in vitro*, **108**, 892
- FK888**, Effects of two novel tachykinin antagonists, FK224 and FK888, on neurogenic airway plasma exudation, bronchoconstriction and systemic hypotension in guinea-pigs *in vivo*, **108**, 844
- Flavonoids**, Effects of hydroxyethylrutinosides on the permeability of microvessels in the frog mesentery, **110**, 199
- Flecainide**, Antiarrhythmic agents act differently on the activation phase of the ACh-response in guinea-pig atrial myocytes, **108**, 111
- Effects of hyperkalaemia on the depression of maximum rate of depolarization by class I antiarrhythmic agents in guinea-pig myocardium, **108**, 255
- Flexion reflex**, Effect of RP 67580, a non-peptide neurokinin<sub>1</sub> receptor antagonist, on facilitation of a nociceptive spinal flexion reflex in the rat, **109**, 713
- Flosequinan**, Effect of flosequinan on ischaemia-induced arrhythmias and on ventricular cyclic nucleotide content in the anaesthetized rat, **108**, 1111
- Flumazenil**, Attenuation of reperfusion hyperalgesia in the rat by systemic administration of benzodiazepines, **110**, 1067
- Similar effects of ethanol and flumazenil on acquisition of a shuttle-box avoidance response during withdrawal from chronic ethanol treatment, **110**, 753
- Flunitrazepam**, The influence of the  $\gamma_{2L}$  subunit on the modulation of responses to GABA<sub>A</sub> receptor activation, **108**, 711
- Fluoroquinolone**, Active secretion of the fluoroquinolone ciprofloxacin by human intestinal epithelial Caco-2 cell layers, **108**, 575
- Fluovoxamine**, The effects of single and repeated anorectic doses of 5-hydroxytryptamine uptake inhibitors on indole levels in rat brain, **110**, 355
- Fluoxetine**, The effects of single and repeated anorectic doses of 5-hydroxytryptamine uptake inhibitors on indole levels in rat brain, **110**, 355
- Flurbiprofen**, Leukotriene D<sub>4</sub> receptors are not negatively coupled to adenylyl cyclase in guinea-pig lung parenchyma, **108**, 824
- Forearm vasculature, human**, Differential inhibition by N<sup>G</sup>-monomethyl-L-arginine of vasodilator effects of acetylcholine and methacholine in human forearm vasculature, **110**, 736
- Formalin tests**, 7-Nitro indazole, an inhibitor of nitric oxide synthase, exhibits anti-nociceptive activity in the mouse without increasing blood pressure, **108**, 296
- Evidence for participation of B<sub>1</sub> and B<sub>2</sub> kinin receptors in formalin-induced nociceptive response in the mouse, **110**, 193
- Formoterol**, Comparison of the anti-inflammatory properties of formoterol, salbutamol and salmeterol in guinea-pig skin and lung, **110**, 613
- Effects of  $\beta$ -adrenoceptor agonists in human bronchial smooth muscle, **110**, 1112
- N-Formyl-L-methionyl-L-leucyl-L-phenylalanine**, Pharmacological differentiation by pertussis toxin of the *in vivo* acute responses to fMLP and PAF in guinea-pig lungs, **108**, 412
- Forskolin**, Cardiotonic actions of selective phosphodiesterase inhibitors in rat isolated ventricular cardiomyocytes, **110**, 1387
- Kinin-induced chloride permeability changes in colony 29 epithelia estimated from <sup>125</sup>I<sup>-</sup> efflux and MEQ fluorescence, **108**, 469
- Renal tubular dopamine outward transfer during Na<sup>+</sup>-H<sup>+</sup> exchange activation by  $\alpha_1$ - and  $\alpha_2$ -adrenoceptor agonists, **109**, 569
- Role of cyclic AMP in promoting the thromboresistance of human endothelial cells by enhancing thrombomodulin and decreasing tissue factor activities, **109**, 18
- Forskolin derivatives**, Effects of a water-soluble forskolin derivative (NKH477) and a membrane-permeable cyclic AMP analogue on noradrenaline-induced Ca<sup>2+</sup> mobilization in smooth muscle of rabbit mesenteric artery, **110**, 1117
- Fosinopril**, Dose-dependent effects of angiotensin converting enzyme (ACE) inhibitors on glomerular prostanoid production by normotensive rats, **108**, 327
- FR 139317**, A novel ET<sub>A</sub>-receptor antagonist, FR 139317, inhibits endothelin-induced contractions of guinea-pig pulmonary arteries, but not trachea, **108**, 448
- FR 900452**, Partial agonist effect of the platelet-activating factor receptor antagonists, WEB 2086 and WEB 2170, in the rat perfused heart, **110**, 645
- Fucoidin**, Suppression by intradermal administration of heparin of eosinophil accumulation but not oedema formation in inflammatory reactions in guinea-pig skin, **110**, 1496
- Functional antagonism**, Interactions between responses mediated by activation of adenosine A<sub>2</sub> receptors and  $\alpha_1$ -adrenoceptors in the rabbit isolated aorta, **109**, 394
- Fura-2**, Ca<sup>2+</sup>-dependent aggregation of rabbit platelets induced by maitotoxin, a potent marine toxin, isolated from a dinoflagellate, **109**, 29
- Contractile and relaxant effects of phorbol ester in the intestinal smooth muscle of guinea-pig taenia caeci, **109**, 229
- Effects of ATP on cultured smooth muscle cells from rat aorta, **108**, 638
- Effects of pH on the actions of dizocilpine at the N-methyl-D-aspartate receptor complex, **109**, 107
- Eicosanoid-induced Ca<sup>2+</sup> release and sustained contraction in Ca<sup>2+</sup>-free media are mediated by different signal transduction pathways in rat aorta, **110**, 875
- Increases in intracellular calcium via activation of an endogenous P<sub>2</sub>-purinoceptor in cultured CHO-K1 cells, **110**, 1305
- Intracellular cross-talk between receptors coupled to phospholipase C via pertussis toxin-sensitive and insensitive G-proteins in DDT<sub>1</sub>MF-2 cells, **109**, 719
- Mg<sup>2+</sup> and caffeine-induced intracellular Ca<sup>2+</sup> release in human vascular endothelial cells, **109**, 291
- Protein kinase C inhibitors enhance endothelin-1 and attenuate vasopressin and angiotensin II evoked [Ca<sup>2+</sup>]<sub>i</sub> elevation in the rat cardiomyocyte, **108**, 6
- Role of extracellular and intracellular sources of Ca<sup>2+</sup> in sarafotoxin S6b-induced contraction of strips of the rat aorta, **108**, 30
- The superficial buffer barrier in venous smooth muscle: sarcoplasmic reticulum refilling and unloading, **109**, 336

## G

- G-proteins**, Binding and structure-activity-relation of benzofl/jisoquinoline- and norcodeinone-derivatives at  $\mu$ -opioid receptors in the rat cerebral cortex, **110**, 1429
- Membrane current responses to externally-applied ATP in the longitudinal muscle of the chicken rectum, **110**, 87
- Novel regulation of muscarinic receptors and their coupling with G proteins in smooth muscle: transient resensitization during desensitizing process, **109**, 330
- Pharmacological differentiation by pertussis toxin of the *in vivo* acute responses to fMLP and PAF in guinea-pig lungs, **108**, 412
- G-protein coupled receptors**, Cloning and expression of a fish  $\alpha_2$ -adrenoceptor, **110**, 54
- Effects of phospholipase A<sub>2</sub> inhibitors on coupling of  $\alpha_2$ -adrenoceptors to inwardly rectifying potassium currents in guinea-pig submucosal neurones, **110**, 591
- GABA**, Caffeine and related compounds block inhibitory amino acid-gated Cl<sup>-</sup> currents in freshly dissociated rat hippocampal neurones, **109**, 459
- Solubilization and characterization of GABA<sub>B</sub> receptor binding sites from porcine brain synaptic membranes, **110**, 1291
- GABA agonists**, Pharmacology of GABA  $\rho$ 1 and GABA  $\alpha/\beta$  receptors expressed in *Xenopus* oocytes and COS cells, **109**, 200
- GABA<sub>A</sub> receptors**, Counteraction of the rapid tolerance to 8-OH-DPAT-induced corticosterone secretion in rats by activation of the GABA<sub>A</sub> receptor-chloride channel complex, **109**, 207
- Differential properties of type I and type II benzodiazepine receptors in mammalian CNS neurones, **109**, 819
- The influence of the  $\gamma_{2L}$  subunit on the modulation of responses to GABA<sub>A</sub> receptor activation, **108**, 711
- Pharmacology of GABA  $\rho$ 1 and GABA  $\alpha/\beta$  receptors expressed in *Xenopus* oocytes and COS cells, **109**, 200
- GABA<sub>A</sub> receptors, cloned**, Differential affinity of dihydroimidazoquinolines and diimidazoquinazolines to the  $\alpha 1\beta 2\gamma 2$  and  $\alpha 6\beta 2\gamma 2$  subtypes of cloned GABA<sub>A</sub> receptors, **110**, 677
- GABA<sub>B</sub> receptors**, Antitussive effects of GABA<sub>B</sub> agonists in the cat

- and guinea-pig, 110, 491
- Effects of carbamazepine and baclofen on 4-aminopyridine-induced epileptic activity in rat hippocampal slices, 108, 819
- GABA<sub>B</sub> receptors modulate catecholamine secretion in chromaffin cells by a mechanism involving cyclic AMP formation, 110, 1586
- Repeated administration of desipramine and a GABA<sub>B</sub> receptor antagonist, CGP 36742, discretely up-regulates GABA<sub>B</sub> receptor binding sites in rat frontal cortex, 110, 724
- Solubilization and characterization of GABA<sub>B</sub> receptor binding sites from porcine brain synaptic membranes, 110, 1291
- GABA<sub>B</sub> receptor agonists**, Differential effects of K<sup>+</sup> channel blockers on antinociception induced by  $\alpha_2$ -adrenoceptor, GABA<sub>B</sub> and  $\kappa$ -opioid receptor agonists, 110, 1049
- GABA<sub>B</sub> receptors modulate catecholamine secretion in chromaffin cells by a mechanism involving cyclic AMP formation, 110, 1586
- *In vivo* release of dopamine from rat striatum, substantia nigra and prefrontal cortex: differential modulation by baclofen, 109, 814
- GABA<sub>B</sub> receptor antagonists**, Repeated administration of desipramine and a GABA<sub>B</sub> receptor antagonist, CGP 36742, discretely up-regulates GABA<sub>B</sub> receptor binding sites in rat frontal cortex, 110, 724
- Gall bladder**, 2-Naphthalenesulphonyl L-aspartyl-(2-phenethyl)amide (2-NAP)—a selective cholecystokinin CCK<sub>A</sub>-receptor antagonist, 108, 734
- Ganglia, ciliary**, The effect of nitric oxide on the efficacy of synaptic transmission through the chick ciliary ganglion, 110, 627
- Nitric oxide modulation of calcium-activated potassium channels in postganglionic neurones of avian cultured ciliary ganglia, 110, 995
- Ganglia, ciliary, avian**, The effect of ions and second messengers on long-term potentiation of chemical transmission in avian ciliary ganglia, 110, 461
- Nitric oxide and arachidonic acid modulation of calcium currents in postganglionic neurones of avian cultured ciliary ganglia, 109, 480
- Ganglia, nodose**, An electrophysiological investigation of the properties of 5-HT<sub>3</sub> receptors of rabbit nodose ganglion neurones in culture, 110, 6
- Ganglia, parasympathetic, pulmonary**, Endogenous tachykinins facilitate transmission through parasympathetic ganglia in guinea-pig trachea, 109, 751
- Ganglia, superior cervical**, Action of purine and pyrimidine nucleotides on the rat superior cervical ganglion, 110, 1297
- Ganglia, superior cervical, rat**, Characterization of the adenosine receptors of the rat superior cervical ganglion, 110, 854
- Involvement of pertussis toxin-sensitive and -insensitive mechanisms in  $\alpha$ -adrenoceptor modulation of noradrenaline release from rat sympathetic neurones in tissue culture, 110, 281
- Ganglia, trigeminal**, The non-peptide neurokinin<sub>1</sub> receptor antagonist, RP 67580, blocks neurogenic plasma extravasation in the dura mater of rats, 108, 11
- Gangliosides**, Impaired sensory-motor nerve function in the isolated mesenteric arterial bed of streptozotocin-diabetic and ganglioside-treated streptozotocin-diabetic rats, 110, 1105
- Gastric acid**, Comparative study of the control of basal acid output from rodent isolated stomachs, 109, 941
- Nitric oxide mediates the inhibition by interleukin-1 $\beta$  of pentagastrin-stimulated rat gastric acid secretion, 108, 9
- Gastric damage**, The actions of nitric oxide donors in the prevention or induction of injury to the rat gastric mucosa, 108, 73
- The paradoxical vascular interactions between endothelin-1 and calcitonin gene-related peptide in the rat gastric mucosal microcirculation, 110, 496
- Gastric emptying**, Regulation of neural responses in the canine pyloric sphincter by opioids, 108, 1024
- Gastric mucosa**, Interaction of nitric oxide and salivary gland epidermal growth factor in the modulation of rat gastric mucosal integrity, 110, 229
- Nitric oxide-dependent and -independent hyperaemia due to calcitonin gene-related peptide in the rat stomach, 110, 404
- Gastric mucosal blood flow**, Interaction of nitric oxide and salivary gland epidermal growth factor in the modulation of rat gastric mucosal integrity, 110, 229
- Gastric muscle**, Effects of cromakalim on the electrical slow wave in the circular muscle of guinea-pig gastric antrum, 109, 1097
- Gastrointestinal motility**, Effects of cholinergic and 5-hydroxytryptamine<sub>2</sub> receptor antagonism on erythromycin-induced canine intestinal motility disruption and emesis, 108, 44
- Influence of rhin anthrone on peristaltic reflex of guinea-pig isolated ileum: involvement of prostaglandins, 108, 269
- Inhibition of nitric oxide synthesis reveals non-cholinergic excitatory neurotransmission in the canine proximal colon, 109, 739
- Regulation of neural responses in the canine pyloric sphincter by opioids, 108, 1024
- Gastrointestinal tract**, Enhancement by endothelin-1 of microvascular permeability via the activation of ET<sub>A</sub> receptors, 109, 880
- Modulation by nitric oxide of platelet-activating factor-induced albumin extravasation in the conscious rat, 110, 1347
- Gepirone**, The effects of  $\alpha_2$ -adrenoceptor antagonists on the inhibition of 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane (DOI)-induced head shakes by 5-HT<sub>1A</sub> receptor agonists in the mouse, 109, 1046
- (+)-Glucine**, Study of the mechanism of the relaxant action of (+)-glucine in rat vas deferens, 110, 943
- Glibenclamide**, Acetylcholine-induced endothelium-independent relaxations in monkey isolated superior and inferior caval veins, 109, 992
- Antagonism of the stimulatory effects of efaroxan and glibenclamide in rat pancreatic islets by the imidazoline, RX801080, 110, 1017
- Antiarrhythmic drugs, clofilium and cibenzoline are potent inhibitors of glibenclamide-sensitive K<sup>+</sup> currents in *Xenopus* oocytes, 109, 866
- Attenuation by phentolamine of hypoxia and levcromakalim-induced abbreviation of the cardiac action potential, 110, 1222
- Blockade by glibenclamide of the flow-evoked endothelial release of ATP that contributes to vasodilatation in the pulmonary vascular bed of the rat, 109, 466
- Cibenzoline inhibits diazoxide- and 2,4-dinitrophenol-activated ATP-sensitive K<sup>+</sup> channels in guinea-pig ventricular cells, 108, 549
- Differential Class III and glibenclamide effects on action potential duration in guinea-pig papillary muscle during normoxia and hypoxia/ischaemia, 110, 531
- Differential effects of acetylcholine, nitric oxide and levcromakalim on smooth muscle membrane potential and tone in the rabbit basilar artery, 110, 651
- Effects of P1060 and aprikalim on whole-cell currents in rat portal vein; inhibition by glibenclamide and phentolamine, 108, 991
- Effects of potassium channel openers and their antagonists on rat locus coeruleus neurones, 109, 308
- Evaluation of the relaxant effects of SCA40, a novel charybdotoxin-sensitive potassium channel opener, in guinea-pig isolated trachealis, 108, 622
- K channel activation by nucleotide diphosphates and its inhibition by glibenclamide in vascular smooth muscle cells, 110, 573
- Glomerular filtration rates**, The effects of a converting enzyme inhibitor (captopril) and angiotensin II on fetal renal function, 110, 821
- Endothelin-1 in the rabbit: interactions with cyclo-oxygenase and NO-synthase products, 108, 838
- Glomeruli, isolated**, Dose-dependent effects of angiotensin converting enzyme (ACE) inhibitors on glomerular prostanoid production by normotensive rats, 108, 327
- Glucocorticoids**, A factor released by monocytes in the presence of dexamethasone stimulates neutrophil locomotion, 108, 248
- Glucocorticoid- and non-glucocorticoid induction of lipocortins (annexins) 1 and 2 in rat peritoneal leucocytes *in vivo*, 108, 66
- Immediate inhibitory effect of methylprednisolone sultetanate (U-67590A) on antigen-induced cutaneous and airway anaphylactic responses in guinea-pigs, 108, 604
- Investigations into the mechanism of vasoconstrictor action of the topical steroid betamethasone-17-valerate in the rat, 108, 544
- Glucocorticosteroids**, Serum corticosterone, interleukin-1 and tumour necrosis factor in rat experimental endotoxaemia: comparison between Lewis and Wistar strains, 110, 868
- Glucose tolerance**, Stimulation of insulin secretion and improvement of glucose tolerance in rat and dog by the P<sub>2U</sub>-purinoceptor agonist, adenosine-5'-O-(2-thiodiphosphate), 109, 183
- $\beta$ -Glucuronidase**, Inhibition by nitric oxide-donors of human polymorphonuclear leucocyte functions, 109, 852
- Glutamate**, Effects of LY274614, a competitive NMDA receptor antagonist, on the micturition reflex in the urethane-anaesthetized rat, 110, 77
- Glutamate ionotropic receptors**, Ionotropic glutamate receptor types leading to adenosine-mediated inhibition of electrically evoked [<sup>3</sup>H]-noradrenaline release in rabbit brain cortex slices, 110, 1544
- Glutamate metabotropic receptors**, Actions of agonists of metabotropic glutamate receptors on synaptic transmission and

- transmitter release in the olfactory cortex, 108, 422
- Excitatory amino acid receptor-stimulated phosphoinositide turnover in primary cerebrocortical cultures, 109, 379
  - Inotropic glutamate receptor types leading to adenosine-mediated inhibition of electrically evoked [ $^3\text{H}$ ]-noradrenaline release in rabbit brain cortex slices, 110, 1544
  - A novel metabotropic glutamate receptor agonist: marked depression of monosynaptic excitation in the newborn rat isolated spinal cord, 109, 1169
  - Pharmacological characterization of the metabotropic glutamate receptor inhibiting D-[ $^3\text{H}$ ]-aspartate output in rat striatum, 110, 1407
  - Signal transduction pathways involved in the acute potentiation of NMDA responses by 1S,3R-ACPD in rat hippocampal slices, 109, 1085
- Glutamate receptors**, Selective reduction of *N*-methyl-D-aspartate-evoked responses by 1,3-di(2-tolyl)guanidine in mouse and rat cultured hippocampal pyramidal neurones, 109, 1196
- Glyceryl dinitrate**, Vascular and anti-platelet actions of 1,2- and 1,3-glyceryl dinitrate, 110, 937
- Glyceryl trinitrate**, The actions of nitric oxide donors in the prevention or induction of injury to the rat gastric mucosa, 108, 73
- Allopurinol and amlodipine improve coronary vasodilatation after myocardial ischaemia and reperfusion in anaesthetized dogs, 108, 342
  - Conversion of glyceryl trinitrate to nitric oxide in tolerant and non-tolerant smooth muscle and endothelial cells, 108, 162
  - Release of nitric oxide from glyceryl trinitrate by captopril but not enalaprilat: *in vitro* and *in vivo* studies, 109, 430
  - Vascular and anti-platelet actions of 1,2- and 1,3-glyceryl dinitrate, 110, 937
- Glycine**, Antiepileptic drug pharmacokinetics and neuropharmacokinetics in individual rats by repetitive withdrawal of blood and cerebrospinal fluid: milacemide, 108, 1117
- Caffeine and related compounds block inhibitory amino acid-gated  $\text{Cl}^-$  currents in freshly dissociated rat hippocampal neurones, 109, 459
  - Glycine stimulates striatal dopamine release in conscious rats, 110, 50
  - The glycine/NMDA receptor antagonist, *R*-(+)-HA-966, blocks activation of the mesolimbic dopaminergic system induced by phencyclidine and dizocilpine (MK-801) in rodents, 108, 1156
  - Postnatal changes in *N*-methyl-D-aspartate receptor binding and stimulation by glutamate and glycine of [ $^3\text{H}$ ]-MK-801 binding in human temporal cortex, 108, 1143
  - Whole cell and single channel analysis of the kinetics of glycine-sensitive *N*-methyl-D-aspartate receptor desensitization, 109, 213
- Glycogenolysis**, Characterization of the effects of adenosine 5'-[ $\beta$ -thio]diphosphate in rat liver, 108, 663
- [ $^3\text{H}$ ]-GR32191**, Characteristics of the binding of [ $^3\text{H}$ ]-GR32191 to the thromboxane (TP)-receptor of human platelets, 110, 539
- GR64349**, Neurokinin-induced changes in pial artery diameter in the anaesthetized guinea-pig, 108, 146
- GR71251**, Depression of primary afferent-evoked responses by GR71251 in the isolated spinal cord of the neonatal rat, 110, 1142
- GR73632**, Neurokinin-induced changes in pial artery diameter in the anaesthetized guinea-pig, 108, 146
- GR79236**, Functional characterization of three adenosine receptor types, 109, 693
- GR82334**, Neurokinin-induced changes in pial artery diameter in the anaesthetized guinea-pig, 108, 146
- Tachykinin receptors mediating responses to sensory nerve stimulation and exogenous tachykinins and analogues in the rabbit isolated iris sphincter, 109, 1008
- GR113808**, Blockade of human atrial 5-HT $_4$  receptors by GR 113808, 110, 1172
- Characterization of the 5-HT $_4$  receptor mediating tachycardia in piglet isolated right atrium, 110, 1023
  - Development of a radioligand binding assay for 5-HT $_4$  receptors in guinea-pig and rat brain, 109, 618
- GR117289**, Binding of angiotensin antagonists to rat liver and brain membranes measured *ex vivo*, 109, 760
- Role of angiotensin AT $_1$  and AT $_2$  receptors in mediating the renal effects of angiotensin II in the anaesthetized dog, 109, 148
- GTP $\gamma$ S binding**, Estimation of competitive antagonist affinity from functional inhibition curves using the Gaddum, Schild and Cheng-Prusoff equations, 109, 1110
- Pharmacological characterization of acetylcholine-stimulated [ $^3\text{S}$ ]-GTP $\gamma$ S binding mediated by human muscarinic m1-m4 receptors: antagonist studies, 109, 1120
- Guanabenz**, Antagonism of levcromakalim by imidazoline- and guanidine-derivatives in rat portal vein: involvement of the delayed rectifier, 110, 1556
- Mediation of the hypotensive action of systemic clonidine in the rat by  $\alpha_2$ -adrenoceptors, 110, 1635
- [ $^{14}\text{C}$ ]-Guanidinium influx**, Characterization of 5-HT $_3$  receptors of N1E-115 neuroblastoma cells by use of the influx of the organic cation [ $^{14}\text{C}$ ]-guanidinium, 108, 436
- Guanine nucleotide exchange**, Pharmacological characterization of acetylcholine-stimulated [ $^3\text{S}$ ]-GTP $\gamma$ S binding mediated by human muscarinic m1-m4 receptors: antagonist studies, 109, 1120
- Guanosine 3':5'-cyclic monophosphate (cyclic GMP)**, Inhibition by nitric oxide-donors of human polymorphonuclear leucocyte functions, 109, 852
- Nitric oxide affects mammalian distal colonic smooth muscle by tonic neural inhibition, 108, 974
- Guanosine triphosphate**, Species-selective binding of [ $^3\text{H}$ ]-idazoxan to  $\alpha_2$ -adrenoceptors and non-adrenoceptor, imidazoline binding sites in the central nervous system, 109, 831
- Guanylate cyclase**, Induction by endothelin-1 of epithelium-dependent relaxation of guinea-pig trachea *in vitro*: role for nitric oxide, 109, 637
- Photodynamic action of aluminium phthalocyanine tetrasulphonate (A1PcS $_4$ ) on smooth muscle: effects of thiols and a cyclic GMP analogue, 110, 1248
  - Prevention of nitric oxide synthase induction in vascular smooth muscle cells by microtubule depolymerizing agents, 109, 603
  - Regulation of NANC neural bronchoconstriction *in vivo* in the guinea-pig: involvement of nitric oxide, 108, 228

## H

- (+)-HA-966**, The glycine/NMDA receptor antagonist, *R*-(+)-HA-966, blocks activation of the mesolimbic dopaminergic system induced by phencyclidine and dizocilpine (MK-801) in rodents, 108, 1156
- Haemoconcentration**, Comparison of haemoconcentration induced by big endothelin-1 and endothelin-1 in mice, 110, 1395
- Enhancement by endothelin-1 of microvascular permeability via the activation of ET $_A$  receptors, 109, 880
- Haemodynamics**, Comparison of the regional haemodynamic effects of the AT $_1$ -receptor antagonists, losartan and EXP 3174, in water-deprived Brattleboro rats, 108, 684
- Effects of chronic treatment with nitric oxide synthase inhibitors on regional haemodynamic responses to vasodilators in conscious Brattleboro rats, 109, 222
  - The effects of *N* $^G$ -nitro-L-arginine methyl ester, sodium nitroprusside and noradrenaline on venous return in the anaesthetized cat, 108, 933
  - Production by *R*- $\alpha$ -methylhistamine of a histamine H $_3$  receptor-mediated decrease in basal vascular resistance in guinea-pigs, 110, 553
  - Regional and cardiac haemodynamic effects of *N* $^G$ ,*N* $^G$ -dimethyl-L-arginine and their reversibility by vasodilators in conscious rats, 110, 1457
  - Regional haemodynamic effects of angiotensin II (3-8) in conscious rats, 110, 159
  - Regional haemodynamic responses to intravenous and intraarterial endothelin-1 and big endothelin-1 in conscious rats, 110, 1532
- Haemorrhage**, Effects of 5-HT-receptor and  $\alpha_2$ -adrenoceptor ligands on the haemodynamic response to acute central hypovolaemia in conscious rabbits, 109, 37
- Role of neuronal and vascular Ca $^{2+}$ -channels in the ACTH-induced reversal of haemorrhagic shock, 109, 645
- Haemorrhagic shock**, Role of neuronal and vascular Ca $^{2+}$ -channels in the ACTH-induced reversal of haemorrhagic shock, 109, 645
- Halothane**, Halothane inhibits the pressor effect of diphenylethylideneonium, 109, 1186
- Head-shakes**, The effects of  $\alpha_2$ -adrenoceptor antagonists on the inhibition of 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane (DOI)-induced head shakes by 5-HT $_{1A}$  receptor agonists in the mouse, 109, 1046
- Headache**, Inhibition by sumatriptan of central trigeminal neurones only after blood-brain barrier disruption, 109, 788
- Heart**, Altered cardiac adrenergic neurotransmission in streptozotocin-induced diabetic rats, 109, 1276
- Blockade of adenosine receptors unmasks a stimulatory effect of ATP on cardiac contractility, 109, 1268

- Caffeine-induced decreases in the inward rectifier potassium and the inward calcium currents in rat ventricular myocytes, 109, 895
- Calcium antagonistic and antiarrhythmic actions of CPU-23, a substituted tetrahydroisoquinoline, 109, 113
- Calcium modulatory properties of 2,6-dibutylbenzylamine (B25) in rat isolated vas deferens, cardiac and smooth muscle preparations, 109, 1038
- A facilitatory effect of anti-angiotensin drugs on vagal bradycardia in the pithed rat and guinea-pig, 110, 289
- Fendiline inhibits L-type calcium channels in guinea-pig ventricular myocytes: a whole-cell patch-clamp study, 108, 865
- Porcine ventricular endocardial cells in culture express the inducible form of nitric oxide synthase, 108, 1107
- Heart, bovine**, The affinity of betaxolol, a  $\beta_1$ -adrenoceptor-selective blocking agent, for  $\beta$ -adrenoceptors in the bovine trachea and heart, 108, 484
- Heart failure**, Cellular mechanism of the positive inotropic effect of hydralazine in mammalian myocardium, 109, 667
- Incomplete reversal of  $\beta$ -adrenoceptor desensitization in human and guinea-pig cardiomyocytes by cyclic nucleotide phosphodiesterase inhibitors, 109, 1071
- Heart, guinea-pig**, Effects of capsaicin and 5-HT<sub>3</sub> antagonists on 5-hydroxytryptamine-evoked release of calcitonin gene-related peptide in the guinea-pig heart, 108, 431
- Protective effects of ranolazine in guinea-pig hearts during low-flow ischaemia and their association with increases in active pyruvate dehydrogenase, 109, 748
- Heart, rabbit**, Formation of sulphidopeptide-leukotrienes by cell-cell interaction causes coronary vasoconstriction in isolated, cell-perfused heart of rabbit, 110, 1206
- Selective  $I_K$  blockade as an antiarrhythmic mechanism: effects of UK66,914 on ischaemia and reperfusion arrhythmias in rat and rabbit hearts, 108, 139
- Heart, rat**, Bacterial endotoxin rapidly stimulates prolonged endothelium-dependent vasodilatation in the rat isolated perfused heart, 109, 987
- Demonstration of the suitability of CGP 12177 for *in vivo* studies of  $\beta$ -adrenoceptors, 109, 1101
- Effects of prolonged application of isoprenaline on intracellular free magnesium concentration in isolated heart of rat, 109, 443
- $\text{Na}^+/\text{H}^+$  exchange inhibitors reverse lactate-induced depression in postischaemic ventricular recovery, 108, 50
- Partial agonist effect of the platelet-activating factor receptor antagonists, WEB 2086 and WEB 2170, in the rat perfused heart, 110, 645
- Potentiation of  $\alpha$ -adrenoceptor-mediated responses following chronic  $\beta$ -adrenoceptor stimulation in the rat heart, 108, 658
- Ramiprilat increases bradykinin outflow from isolated hearts of rat, 108, 293
- Selective  $I_K$  blockade as an antiarrhythmic mechanism: effects of UK66,914 on ischaemia and reperfusion arrhythmias in rat and rabbit hearts, 108, 139
- Heart rate**, Calcium antagonistic and antiarrhythmic actions of CPU-23, a substituted tetrahydroisoquinoline, 109, 113
- Relaxing actions of corticotropin-releasing factor on rat resistance arteries, 108, 941
- Heart ventricle**, Modulation by histamine of the delayed outward potassium current in guinea-pig ventricular myocytes, 109, 142
- HeLa cells**, Desensitization of histamine  $\text{H}_1$  receptor-mediated inositol phosphate production in HeLa cells, 109, 353
- Heparin**, Effect of heparin and a low-molecular weight heparinoid on PAF-induced airway responses in neonatally immunized rabbits, 110, 107
- Effects of heparin on the vasodilator action of protamine in the rabbit mesenteric artery, 109, 1247
- Suppression by intradermal administration of heparin of eosinophil accumulation but not oedema formation in inflammatory reactions in guinea-pig skin, 110, 1496
- Heparin, low-molecular weight**, Effect of heparin and a low-molecular weight heparinoid on PAF-induced airway responses in neonatally immunized rabbits, 110, 107
- Heterologous desensitization**, Desensitization of histamine  $\text{H}_1$  receptor-mediated inositol phosphate production in HeLa cells, 109, 353
- Hexamethonium**, Effects of cholinergic and 5-hydroxytryptamine receptor antagonism on erythromycin-induced canine intestinal motility disruption and emesis, 108, 44
- Modulation of acetylcholine-induced contractions of the rat anococcygeus muscle by activation of nitrergic nerves, 110, 1479
- Hindlimb circulation, dog**, The effect of  $N^G$ -nitro-L-arginine methyl ester upon basal blood flow and endothelium-dependent vasodilatation in the dog hindlimb, 108, 763
- Hippocampal pyramidal neurones**, Selective reduction of *N*-methyl-D-aspartate-evoked responses by 1,3-di(2-tolyl)guanidine in mouse and rat cultured hippocampal pyramidal neurones, 109, 1196
- Hippocampal slices**, Effects of carbamazepine and baclofen on 4-aminopyridine-induced epileptic activity in rat hippocampal slices, 108, 819
- Hippocampus**,  $\alpha$ -Sialyl cholesterol reverses AF64A-induced deficit in passive avoidance response and depletion of hippocampal acetylcholine in mice, 108, 387
- Bicuculline-resistant paired-pulse inhibition in the rat hippocampal slice, 109, 1164
- Binding of angiotensin antagonists to rat liver and brain membranes measured *ex vivo*, 109, 760
- Changes in [ $^3\text{H}$ ]-PK 11195 and [ $^3\text{H}$ ]-8-OH-DPAT binding following forebrain ischaemia in the gerbil, 109, 437
- Effect of an intracellular calcium chelator on the regulation of electrically evoked [ $^3\text{H}$ ]-noradrenaline release from rat hippocampal slices, 108, 126
- Inhibition by the adenosine analogue, (*R*)- $N^6$ -phenylisopropyladenosine, of kainic acid neurotoxicity in rat hippocampus after systemic administration, 109, 316
- Mediation of the neuroprotective action of *R*-phenylisopropyladenosine through a centrally located adenosine  $\text{A}_1$  receptor, 110, 470
- Signal transduction pathways involved in the acute potentiation of NMDA responses by 1S,3R-ACPD in rat hippocampal slices, 109, 1085
- Hippocampus, guinea-pig**, Development of a radioligand binding assay for 5-HT<sub>4</sub> receptors in guinea-pig and rat brain, 109, 618
- Hippocampus, rat**, Caffeine and related compounds block inhibitory amino acid-gated  $\text{Cl}^-$  currents in freshly dissociated rat hippocampal neurones, 109, 459
- The novel 5-HT<sub>1A</sub> receptor antagonist, SDZ 216-525, decreases 5-HT release in rat hippocampus *in vivo*, 109, 699
- Histamine**, Activation by calcium alone of chloride secretion in T<sub>84</sub> epithelial cells, 109, 510
- Cellular mechanism of the positive inotropic effect of hydralazine in mammalian myocardium, 109, 667
- Comparative study of the control of basal acid output from rodent isolated stomachs, 109, 941
- The effect of platelet-activating factor on the responsiveness of the human nasal airway, 110, 113
- Effects of intracerebroventricular injection of histamine and related compounds on corticosterone release in rats, 109, 807
- Enhancement of airway reactivity to histamine by isoprenaline and related  $\beta$ -adrenoceptor agonists in the guinea-pig, 108, 1016
- Histamine  $\text{H}_1$ -receptor-mediated inositol phospholipid hydrolysis in DDT<sub>1</sub>MF-2 cells: agonist and antagonist properties, 108, 196
- Intracellular cross-talk between receptors coupled to phospholipase C via pertussis toxin-sensitive and insensitive G-proteins in DDT<sub>1</sub>MF-2 cells, 109, 719
- Modulation by histamine of the delayed outward potassium current in guinea-pig ventricular myocytes, 109, 142
- Muscarinic effect of atrial natriuretic peptide on rabbit airways, 110, 804
- Histamine  $\text{H}_1$  receptors**, Desensitization of histamine  $\text{H}_1$  receptor-mediated inositol phosphate accumulation in guinea pig cerebral cortex slices, 110, 269
- Desensitization of histamine  $\text{H}_1$  receptor-mediated inositol phosphate production in HeLa cells, 109, 353
- Histamine  $\text{H}_1$ -receptor-mediated inositol phospholipid hydrolysis in DDT<sub>1</sub>MF-2 cells: agonist and antagonist properties, 108, 196
- Homologous and heterologous desensitization of histamine  $\text{H}_1$ - and ATP-receptors in the smooth muscle cell line, DDT<sub>1</sub>MF-2: the role of protein kinase C, 110, 1449
- Intracellular cross-talk between receptors coupled to phospholipase C via pertussis toxin-sensitive and insensitive G-proteins in DDT<sub>1</sub>MF-2 cells, 109, 719
- Histamine  $\text{H}_1$  antagonists**, Effects of intracerebroventricular injection of histamine and related compounds on corticosterone release in rats, 109, 807

- Histamine H<sub>2</sub> antagonists**, Effects of intracerebroventricular injection of histamine and related compounds on corticosterone release in rats, 109, 807
- Histamine H<sub>3</sub> receptors**, Bronchodilatation of guinea-pig perfused bronchioles induced by the H<sub>3</sub>-receptor for histamine: role of epithelium, 109, 960
- Production by *R*- $\alpha$ -methylhistamine of a histamine H<sub>3</sub> receptor-mediated decrease in basal vascular resistance in guinea-pigs, 110, 553
- Histamine release**, Activation of the Na<sup>+</sup>/K<sup>+</sup>-pump in rat peritoneal mast cells following histamine release: a possible role in cell recovery, 108, 120
- Endothelin-induced contraction and mediator release in human bronchus, 110, 392
- Hoe 140**, The action of Hoe 140 on the bradykinin-induced splenic pressor reflex of the anaesthetized cat, 110, 1317
- Chronic kinin receptor blockade induces hypertension in deoxycorticosterone-treated rats, 108, 651
  - Differential sensitivity of antinociceptive assays to the bradykinin antagonist Hoe 140, 108, 209
  - Pathological events in experimental acute pancreatitis prevented by the bradykinin antagonist, Hoe 140, 108, 405
  - Protective effects of bradykinin on the ischaemic heart: implication of the B<sub>1</sub> receptor, 108, 318
- Hoe 694**, Hoe 694, a new Na<sup>+</sup>/H<sup>+</sup> exchange inhibitor and its effects in cardiac ischaemia, 109, 562
- Homocysteine**, Arterial endothelial barrier dysfunction: actions of homocysteine and the hypoxanthine-xanthine oxidase free radical generating system, 108, 920
- Homovanillic acid (HVA)**, Glycine stimulates striatal dopamine release in conscious rats, 110, 50
- Hot plate test**, Modulation of opioid antinociception by CCK at the supraspinal level: evidence of regulatory mechanisms between CCK and enkephalin systems in the control of pain, 109, 1064
- H.P.L.C.**, Metabolism of endothelin-1 and big endothelin-1 by recombinant neutral endopeptidase EC.3.4.24.11, 109, 1024
- 5-HT**, Blockade of human atrial 5-HT<sub>4</sub> receptors by GR 113808, 110, 1172
- [<sup>3</sup>H]-5-Carboxamidotryptamine labels 5-HT<sub>1D</sub> binding sites in bovine substantia nigra, 109, 1206
  - Characterization of the 5-hydroxytryptamine receptor mediating the positive inotropic response in guinea-pig isolated left atria, 109, 1192
  - Comparison of contractile responses to 5-hydroxytryptamine and sumatriptan in human isolated coronary artery: synergy with the thromboxane A<sub>2</sub>-receptor agonist, U46619, 110, 360
  - A comparison of rat brain amino acid and monoamine content in diazepam withdrawal and after exposure to a phobic stimulus, 109, 171
  - Effects of cholinergic and 5-hydroxytryptamine<sub>3</sub> receptor antagonism on erythromycin-induced canine intestinal motility disruption and emesis, 108, 44
  - The effects of single and repeated anorectic doses of 5-hydroxytryptamine uptake inhibitors on indole levels in rat brain, 110, 355
  - The guinea-pig distal colon – a sensitive preparation for the investigation of 5-HT<sub>4</sub> receptor-mediated contractions, 110, 1593
  - 5-HT loss in rat brain following 3,4-methylenedioxymethamphetamine (MDMA), *p*-chloroamphetamine and fenfluramine administration and effects of chlormethiazole and dizocilpine, 108, 583
  - 5-HT<sub>4</sub> receptor mediated facilitation of the emptying phase of the peristaltic reflex in the guinea-pig isolated ileum, 110, 1572
  - 5-Hydroxyindole slows desensitization of the 5-HT<sub>3</sub> receptor-mediated ion current in N1E-115 neuroblastoma cells, 108, 287
  - Induction by endotoxin of nitric oxide synthase in the rat mesentery: lack of effect on action of vasoconstrictors, 109, 265
  - Inhibition of nerve stimulation-induced vasodilatation in corpora cavernosa of the pithed rat by blockade of nitric oxide synthase, 108, 1038
  - Interaction between the effects of 5-hydroxytryptamine and adrenaline on the growth of platelet thrombi in the coronary artery of the anaesthetized dog, 109, 405
  - Modulation of central noradrenergic function by RS-15385-197, 108, 526
  - The profiles of interaction of yohimbine with anxiolytic and putative anxiolytic agents to modify 5-HT release in the frontal cortex of freely-moving rats, 110, 1079
  - Reciprocal interaction of 5-hydroxytryptamine and cholecystokinin in the control of feeding patterns in rats, 109, 491
  - Striatal dopamine release *in vivo* following neurotoxic doses of methamphetamine and effect of the neuroprotective drugs, chlormethiazole and dizocilpine, 108, 590
- 5-HT receptors**, Characterization of the 5-hydroxytryptamine receptor mediating the positive inotropic response in guinea-pig isolated left atria, 109, 1192
- Effects of 5-HT-receptor and  $\alpha_2$ -adrenoceptor ligands on the haemodynamic response to acute central hypovolaemia in conscious rabbits, 109, 37
  - Effects of capsaicin and 5-HT<sub>3</sub> antagonists on 5-hydroxytryptamine-evoked release of calcitonin gene-related peptide in the guinea-pig heart, 108, 431
  - Effects of sumatriptan on the cerebral intraparenchymal microcirculation in the cat, 110, 1445
  - Inhibition by sumatriptan of central trigeminal neurones only after blood-brain barrier disruption, 109, 788
- 5-HT receptor antagonists**, Pharmacological activity of (–)-discretamine, a novel vascular  $\alpha$ -adrenoceptor and 5-hydroxytryptamine receptor antagonist, isolated from *Fissistigma glaucescens*, 110, 882
- 5-HT release**, Functional characterization of a 5-HT<sub>3</sub> receptor which modulates the release of 5-HT in the guinea-pig brain, 108, 13
- L-694,247: a potent 5-HT<sub>1D</sub> receptor agonist, 110, 1196
  - The profiles of interaction of yohimbine with anxiolytic and putative anxiolytic agents to modify 5-HT release in the frontal cortex of freely-moving rats, 110, 1079
- 5-HT uptake inhibitors**, The effects of single and repeated anorectic doses of 5-hydroxytryptamine uptake inhibitors on indole levels in rat brain, 110, 355
- 5-HT<sub>1A</sub> receptors**, Counteraction of the rapid tolerance to 8-OH-DPAT-induced corticosterone secretion in rats by activation of the GABA<sub>A</sub> receptor-chloride channel complex, 109, 207
- The effects of  $\alpha_2$ -adrenoceptor antagonists on the inhibition of 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane (DOI)-induced head shakes by 5-HT<sub>1A</sub> receptor agonists in the mouse, 109, 1046
  - Mediation of the antidepressant-like effect of 8-OH-DPAT in mice by postsynaptic 5-HT<sub>1A</sub> receptors, 108, 669
  - The novel 5-HT<sub>1A</sub> receptor antagonist, SDZ 216-525, decreases 5-HT release in rat hippocampus *in vivo*, 109, 699
- 5-HT<sub>1A</sub> receptor agonists**, The profiles of interaction of yohimbine with anxiolytic and putative anxiolytic agents to modify 5-HT release in the frontal cortex of freely-moving rats, 110, 1079
- 5-HT<sub>1A</sub> receptor antagonists**, The novel 5-HT<sub>1A</sub> receptor antagonist, SDZ 216-525, decreases 5-HT release in rat hippocampus *in vivo*, 109, 699
- 5-HT<sub>1B</sub> receptors**, 5-HT<sub>1B</sub> receptors mediate potent contractile responses to 5-HT in rat caudal artery, 109, 609
- Evidence that RU 24969-induced locomotor activity in C57/B1/6 mice is specifically mediated by the 5-HT<sub>1B</sub> receptor, 110, 1621
  - Time-dependent blockade of neurogenic plasma extravasation in dura mater by 5-HT<sub>1B/D</sub> agonists and endopeptidase 24.11, 108, 331
- 5-HT<sub>1D</sub> receptors**, 5-HT<sub>1B</sub> receptors mediate potent contractile responses to 5-HT in rat caudal artery, 109, 609
- [<sup>3</sup>H]-5-carboxamidotryptamine labels 5-HT<sub>1D</sub> binding sites in bovine substantia nigra, 109, 1206
  - L-694,247: a potent 5-HT<sub>1D</sub> receptor agonist, 110, 1196
  - Time-dependent blockade of neurogenic plasma extravasation in dura mater by 5-HT<sub>1B/D</sub> agonists and endopeptidase 24.11, 108, 331
- 5-HT<sub>1D</sub> receptors**, 5-HT<sub>1B</sub> receptors mediate potent contractile responses to 5-HT in rat caudal artery, 109, 609
- 5-HT<sub>1D</sub> receptor agonists**, L-694,247: a potent 5-HT<sub>1D</sub> receptor agonist, 110, 1196
- 5-HT<sub>2</sub> receptors**, The effects of  $\alpha_2$ -adrenoceptor antagonists on the inhibition of 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane (DOI)-induced head shakes by 5-HT<sub>1A</sub> receptor agonists in the mouse, 109, 1046
- 5-HT<sub>3</sub> receptors**, 5-Hydroxyindole slows desensitization of the 5-HT<sub>3</sub> receptor-mediated ion current in N1E-115 neuroblastoma cells, 108, 287
- The action of SDZ 205,557 at 5-hydroxytryptamine (5-HT<sub>3</sub> and 5-HT<sub>4</sub>) receptors, 108, 376
  - Characterization of 5-HT<sub>3</sub> receptors of N1E-115 neuroblastoma cells by use of the influx of the organic cation [<sup>14</sup>C]-guanidinium, 108, 436
  - An electrophysiological investigation of the properties of 5-HT<sub>3</sub>

- receptors of rabbit nodose ganglion neurones in culture, 110, 665
- Functional characterization of a 5-HT<sub>2</sub> receptor which modulates the release of 5-HT in the guinea-pig brain, 108, 13
  - RS 23597-190: a potent and selective 5-HT<sub>4</sub> receptor antagonist, 110, 119
- 5-HT<sub>2</sub> receptor agonists**, An electrophysiological investigation of the properties of 5-HT<sub>2</sub> receptors of rabbit nodose ganglion neurones in culture, 110, 665
- 5-HT<sub>2</sub> receptor antagonists**, 5-HT<sub>2</sub> antagonists reduce morphine self-administration in rats, 110, 1341
- Characterization of 5-HT<sub>2</sub> receptors of N1E-115 neuroblastoma cells by use of the influx of the organic cation [<sup>14</sup>C]-guanidinium, 108, 436
  - An electrophysiological investigation of the properties of 5-HT<sub>2</sub> receptors of rabbit nodose ganglion neurones in culture, 110, 665
  - The profiles of interaction of yohimbine with anxiolytic and putative anxiolytic agents to modify 5-HT release in the frontal cortex of freely-moving rats, 110, 1079
- 5-HT<sub>2</sub> receptor electrophysiology**, An electrophysiological investigation of the properties of 5-HT<sub>2</sub> receptors of rabbit nodose ganglion neurones in culture, 110, 665
- 5-HT<sub>2</sub> receptor-evoked currents**, An electrophysiological investigation of the properties of 5-HT<sub>2</sub> receptors of rabbit nodose ganglion neurones in culture, 110, 665
- 5-HT<sub>2</sub> receptor antagonists**, Blockade of human atrial 5-HT<sub>2</sub> receptors by GR 113808, 110, 1172
- RS 23597-190: a potent and selective 5-HT<sub>4</sub> receptor antagonist, 110, 119
- 5-HT<sub>2</sub> receptors**, 5-HT<sub>2</sub> receptor mediated facilitation of the emptying phase of the peristaltic reflex in the guinea-pig isolated ileum, 110, 1572
- The action of SDZ 205,557 at 5-hydroxytryptamine (5-HT<sub>2</sub> and 5-HT<sub>1</sub>) receptors, 108, 376
  - Blockade of human atrial 5-HT<sub>2</sub> receptors by GR 113808, 110, 1172
  - Characterization of the 5-HT<sub>2</sub> receptor mediating tachycardia in piglet isolated right atrium, 110, 1023
  - Development of a radioligand binding assay for 5-HT<sub>2</sub> receptors in guinea-pig and rat brain, 109, 618
  - Evidence for the involvement of a 5-HT<sub>2</sub> receptor in the secretory response of human small intestine to 5-HT, 110, 927
  - RS 23597-190: a potent and selective 5-HT<sub>4</sub> receptor antagonist, 110, 119
  - The guinea-pig distal colon - a sensitive preparation for the investigation of 5-HT<sub>2</sub> receptor-mediated contractions, 110, 1593
- Hydralazine**, Cellular mechanism of the positive inotropic effect of hydralazine in mammalian myocardium, 109, 667
- Regional and cardiac haemodynamic effects of N<sup>G</sup>,N<sup>G</sup>-dimethyl-L-arginine and their reversibility by vasodilators in conscious rats, 110, 1457
- Hydrochlorothiazide**, Inhibition by hydrochlorothiazide of insulin release and calcium influx in mouse pancreatic  $\beta$ -cells, 110, 1359
- Hydrocortisone**, Influence of epithelium on the inhibition of melittin-induced contraction of guinea-pig isolated trachea by the potassium channel opener NIP-121, 109, 1091
- Hydrogen peroxide**, Arterial endothelial barrier dysfunction: actions of homocysteine and the hypoxanthine-xanthine oxidase free radical generating system, 108, 920
- Involvement of nitric oxide in the endothelium-dependent relaxation induced by hydrogen peroxide in the rabbit aorta, 110, 151
- Hydroxocobalamin**, Differential effects of hydroxocobalamin on NO-mediated relaxations in rat aorta and anococcygeus muscle, 108, 3
- 20-Hydroxy LTB<sub>4</sub>**, Specific inhibition of leukotriene B<sub>4</sub> (LTB<sub>4</sub>)-induced neutrophil emigration by 20-hydroxy LTB<sub>4</sub>: implications for the regulation of inflammatory responses, 110, 423
- 8-Hydroxy-2-(di-n-propylamino)tetralin (8-OH-DPAT)**, Changes in [<sup>3</sup>H]-PK 11195 and [<sup>3</sup>H]-8-OH-DPAT binding following forebrain ischaemia in the gerbil, 109, 437
- Counteraction of the rapid tolerance to 8-OH-DPAT-induced corticosterone secretion in rats by activation of the GABA<sub>A</sub> receptor-chloride channel complex, 109, 207
  - The effects of  $\alpha_2$ -adrenoceptor antagonists on the inhibition of 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane (DOI)-induced head shakes by 5-HT<sub>1A</sub> receptor agonists in the mouse, 109, 1046
  - Mediation of the antidepressant-like effect of 8-OH-DPAT in mice by postsynaptic 5-HT<sub>1A</sub> receptors, 108, 669
  - The novel 5-HT<sub>1A</sub> receptor antagonist, SDZ 216-525, decreases 5-HT release in rat hippocampus *in vivo*, 109, 699
- Hydroxyethylrutosides**, Effects of hydroxyethylrutosides on the permeability of microvessels in the frog mesentery, 110, 199
- 5-Hydroxyindole**, 5-Hydroxyindole slows desensitization of the 5-HT<sub>2</sub> receptor-mediated ion current in N1E-115 neuroblastoma cells, 108, 287
- 2-Hydroxysaclofen**, Bicuculline-resistant paired-pulse inhibition in the rat hippocampal slice, 109, 1164
- Hyperactivity**, The glycine/NMDA receptor antagonist, R-(+)-HA-966, blocks activation of the mesolimbic dopaminergic system induced by phencyclidine and dizocilpine (MK-801) in rodents, 108, 1156
- Hyperalgesia**, Attenuation of reperfusion hyperalgesia in the rat by systemic administration of benzodiazepines, 110, 1067
- Hyperalgesia, Inflammatory**, Bradykinin initiates cytokine-mediated inflammatory hyperalgesia, 110, 1227
- Hypercholesterolaemia**, Hypercholesterolaemia severely impairs EDRF-dependent collateral perfusion following acute arterial occlusion in rabbit isolated ear, 109, 838
- Induction of a calcium-independent NO synthase by hypercholesterolaemia in the rabbit, 108, 290
- Hyperkalaemia**, Effects of hyperkalaemia on the depression of maximum rate of depolarization by class I antiarrhythmic agents in guinea-pig myocardium, 108, 255
- Hyperlipidaemia**, Effects of dicentrine on haemodynamic, plasma lipid, lipoprotein level and vascular reactivity in hyperlipidaemic rats, 108, 1055
- Hyperlipidaemic diabetic rabbit**, Protection by scopolamine against the alterations of plasma lipoproteins, vascular morphology and vascular reactivity in hyperlipidaemic diabetic rabbit, 110, 1508
- Hyperlocomotion**, Evidence that RU 24969-induced locomotor activity in C57/B1/6 mice is specifically mediated by the 5-HT<sub>1B</sub> receptor, 110, 1621
- Hyperpolarization**, Differential effects of acetylcholine, nitric oxide and levcromakalim on smooth muscle membrane potential and tone in the rabbit basilar artery, 110, 651
- Hyperpolarization activated currents**, Inhibitory actions of ZENECA ZD7288 on whole-cell hyperpolarization activated inward current (*I<sub>p</sub>*) in guinea-pig dissociated sinoatrial node cells, 110, 343
- Hyperreactivity**, Interference of a neutrophil recruitment inhibitory factor upon the accumulation of inflammatory cells and airway hyperreactivity in sensitized guinea-pigs after intranasal antigen challenge, 108, 538
- Hypertension**, Chronic kinin receptor blockade induces hypertension in deoxycorticosterone-treated rats, 108, 651
- Pharmacological profile of valsartan: a potent, orally active, nonpeptide antagonist of the angiotensin II AT<sub>1</sub>-receptor subtype, 110, 761
- Hypertension, pulmonary**, Effects of atrial natriuretic peptide and nitroprusside on isolated pulmonary resistance and conduit arteries from rats with pulmonary hypertension, 110, 1363
- Impairment of pulmonary-artery endothelium-dependent relaxation in chronic obstructive lung disease is not due to dysfunction of endothelial cell membrane receptors nor to L-arginine deficiency, 109, 587
- Hyperthermia**, 5-HT loss in rat brain following 3,4-methylenedioxymethamphetamine (MDMA), *p*-chloroamphetamine and fenfluramine administration and effects of chlormethiazole and dizocilpine, 108, 583
- Hypertonic saline**, Ruthenium red, but not capsazepine reduces plasma extravasation by cigarette smoke in rat airways, 108, 646
- Hypophysectomy**, Effects of intracerebroventricular injection of histamine and related compounds on corticosterone release in rats, 109, 807
- Hypotension**, Adenosine A<sub>3</sub> receptors mediate hypotension in the angiotensin II-supported circulation of the pithed rat, 109, 3
- Effects of heparin on the vasodilator action of protamine in the rabbit mesenteric artery, 109, 1247
  - Induction by endotoxin of nitric oxide synthase in the rat mesentery: lack of effect on action of vasoconstrictors, 109, 265
  - Modulation by nitric oxide of platelet-activating factor-induced albumin extravasation in the conscious rat, 110, 1347
  - Nitric oxide-dependent and -independent hyperaemia due to calcitonin gene-related peptide in the rat stomach, 110, 404
  - Nitric oxide-mediated hyporeactivity to noradrenaline precedes the induction of nitric oxide synthase in endotoxin shock, 108, 786
- Hypotensive activity**, Cardiovascular effects of SCA40, a novel potassium channel opener, in rats, 110, 1031

- Hypothalamus**, Effects of pyrogenic immunomodulators on the release of corticotrophin-releasing factor-41 and prostaglandin  $E_2$  from the intact rat hypothalamus *in vitro*, 109, 88
- Peripheral endotoxin induces hypothalamic immunoreactive interleukin-18 in the rat, 109, 289
- Hypothermia**, Cross-tolerance between delta-9-tetrahydrocannabinol and the cannabimimetic agents, CP 55,940, WIN 55,212-2 and anandamide, 110, 1483
- Hypovolaemia**, Effects of 5-HT-receptor and  $\alpha_2$ -adrenoceptor ligands on the haemodynamic response to acute central hypovolaemia in conscious rabbits, 109, 37
- Pathological events in experimental acute pancreatitis prevented by the bradykinin antagonist, Hoe 140, 108, 405
- Hypoxanthine**, Arterial endothelial barrier dysfunction: actions of homocysteine and the hypoxanthine-xanthine oxidase free radical generating system, 108, 920
- Hypoxia**, Attenuation by phentolamine of hypoxia and levromakalim-induced abbreviation of the cardiac action potential, 110, 1222
- Differential Class III and glibenclamide effects on action potential duration in guinea-pig papillary muscle during normoxia and hypoxia/ischaemia, 110, 531
  - Effects of beraprost on the transmembrane potentials of guinea-pig ventricular muscles during normoxia and hypoxia-reoxygenation, 109, 1014
  - Endothelin-1 does not mediate hypoxic vasoconstriction in canine isolated blood vessels: effect of BQ-123, 108, 418
  - Influences of the endothelium and hypoxia on  $\alpha_1$ - and  $\alpha_2$ -adrenoceptor-mediated responses in the rabbit isolated pulmonary artery, 108, 155
  - Influences of the endothelium and hypoxia on neurogenic transmission in the isolated pulmonary artery of the rabbit, 108, 150
  - Modulation of vasodilatation to levromakalim by hypoxia and EDRF in the rabbit isolated ear: a comparison with pinacidil, sodium nitroprusside and verapamil, 109, 386
- I**
- IBMX**, Cardiotonic actions of selective phosphodiesterase inhibitors in rat isolated ventricular cardiomyocytes, 110, 1387
- Ibotenate**, Excitatory amino acid receptor-stimulated phosphoinositide turnover in primary cerebrocortical cultures, 109, 379
- Ibuprofen**, Differential sensitivity of antinociceptive assays to the bradykinin antagonist Hoe 140, 108, 209
- Effect of the platelet-activating factor antagonist, TCV-309, and the cyclo-oxygenase inhibitor, ibuprofen, on the haemodynamic changes in canine experimental endotoxic shock, 110, 1501
- ICI 118551**,  $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal  $K^+$ -channels in bovine trachealis muscle: studies of mechanical activity and ion fluxes, 109, 1149
- $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal  $K^+$ -channels in trachealis muscle: electrophysiological and mechanical studies in guinea-pig tissue, 109, 1140
  - The  $\beta$ -adrenoceptors mediating relaxation of rat oesophageal muscularis mucosae are predominantly of the  $\beta_2$ -, but also of the  $\beta_1$ -subtype, 110, 442
- ICI 170809**, Interaction between the effects of 5-hydroxytryptamine and adrenaline on the growth of platelet thrombi in the coronary artery of the anaesthetized dog, 109, 405
- ICI 198615**, Leukotriene  $D_4$  receptors are not negatively coupled to adenylyl cyclase in guinea-pig lung parenchyma, 108, 824
- ICI D1542**, Redirection of arachidonic acid metabolism by ICI D1542: effects on thrombus formation in the coronary artery of the anaesthetized dog, 108, 901
- ICI D7114**, Evaluation of ICI D7114, a putative stimulant of brown adipocytes, on histamine-contracted guinea-pig ileum, 109, 1212
- ICS 205-930**, Functional characterization of a 5-HT $_3$  receptor which modulates the release of 5-HT in the guinea-pig brain, 108, 13
- Idazoxan**, *In vivo* microdialysis of noradrenaline overflow: effects of  $\alpha$ -adrenoceptor agonists and antagonists measured by cumulative concentration-response curves, 109, 655
- Mediation of the hypotensive action of systemic clonidine in the rat by  $\alpha_2$ -adrenoceptors, 110, 1635
  - The pharmacology of RS-15385-197, a potent and selective  $\alpha_2$ -adrenoceptor antagonist, 108, 516
  - Stimulation of insulin secretion by imidazoline compounds is not due to interaction with non-adrenoceptor idazoxan binding sites, 108, 312

- [ $^3H$ ]-Idazoxan**, Chronic treatment with the monoamine oxidase inhibitors clorgyline and pargyline down-regulates non-adrenoceptor [ $^3H$ ]-idazoxan binding sites in the rat brain, 108, 597
  - [ $^3H$ ]-Idazoxan binding to rabbit cerebral cortex recognises multiple imidazoline  $I_2$ -type receptors: pharmacological characterization and relationship to monoamine oxidase, 109, 625
  - Species-selective binding of [ $^3H$ ]-idazoxan to  $\alpha_2$ -adrenoceptors and non-adrenoceptor, imidazoline binding sites in the central nervous system, 109, 831
- $I_h$** , Inhibitory actions of ZENECA ZD7288 on whole-cell hyperpolarization activated inward current ( $I_h$ ) in guinea-pig dissociated sinoatrial node cells, 110, 343
- $I_K$** , Selective  $I_K$  blockade as an antiarrhythmic mechanism: effects of UK66,914 on ischaemia and reperfusion arrhythmias in rat and rabbit hearts, 108, 139
- Ileal mucosa, guinea-pig**, RS 23597-190: a potent and selective 5-HT $_4$  receptor antagonist, 110, 119
- Ileocolonic junction**,  $Ca^{2+}$  dependency of the release of nitric oxide from non-adrenergic non-cholinergic nerves, 110, 1329
- Prejunctional modulation of the nitrergic innervation of the canine ileocolonic junction via potassium channels, 110, 559
- Ileocolonic junction, canine**,  $\alpha_1$ -Adrenoceptor-mediated modulation of the nitrergic innervation of the canine isolated ileocolonic junction, 109, 1079
- Ileum**, 2-Naphthalenesulphonyl L-aspartyl-(2-phenethyl)amide (2-NAP)—a selective cholecystokinin CCK $_A$ -receptor antagonist, 108, 734
- Characterization of somatostatin receptors in guinea-pig isolated ileum, vas deferens and right atrium, 110, 1156
- Ileum, guinea-pig**, 5-HT $_4$  receptor mediated facilitation of the emptying phase of the peristaltic reflex in the guinea-pig isolated ileum, 110, 1572
- Analysis of the CCK $_B$  receptor antagonism of virginiamycin in guinea-pig ileum longitudinal myenteric plexus, 108, 1164
  - Calcium modulatory properties of 2,6-dibutylbenzylamine (B25) in rat isolated vas deferens, cardiac and smooth muscle preparations, 109, 1038
  - Characterization of endothelin receptors mediating the effects of the endothelin/sarafotoxin peptides on autonomic neurotransmission in the rat vas deferens and guinea-pig ileum, 110, 783
  - Cyclopiazonic acid, an inhibitor of  $Ca^{2+}$ -ATPase in sarcoplasmic reticulum, increases excitability in ileal smooth muscle, 110, 565
  - Endothelin (16-21): biphasic effect and no desensitization on the guinea-pig isolated ileum, 109, 68
  - Evaluation of ICI D7114, a putative stimulant of brown adipocytes, on histamine-contracted guinea-pig ileum, 109, 1212
  - Evidence for functional dissociation of dependence and tolerance in guinea-pig isolated ileal segments following 20 hour exposure to morphine *in vitro*, 110, 1522
  - Influence of rhain anthrone on peristaltic reflex of guinea-pig isolated ileum: involvement of prostaglandins, 108, 269
  - Interaction of selective compounds with muscarinic receptors at dispersed intestinal smooth muscle cells, 108, 393
  - Modulation of cholinergic and substance P-like neurotransmission by nitric oxide in the guinea-pig ileum, 110, 833
  - Selective inactivation of muscarinic  $M_2$  and  $M_3$  receptors in guinea-pig ileum and atria *in vitro*, 109, 946
  - Withdrawal contractures of guinea-pig isolated ileum after acute activation of  $\kappa$ -opioid receptors, 109, 48
- Ileum, human**, Evidence for the involvement of a 5-HT $_4$  receptor in the secretory response of human small intestine to 5-HT, 110, 927
- Ileum, rat**, Zeneca ZD7114 acts as an antagonist at  $\beta_3$ -adrenoceptors in rat isolated ileum, 110, 1375
- Imidazolines**, [ $^3H$ ]-Idazoxan binding to rabbit cerebral cortex recognises multiple imidazoline  $I_2$ -type receptors: pharmacological characterization and relationship to monoamine oxidase, 109, 625
- Stimulation of insulin secretion by imidazoline compounds is not due to interaction with non-adrenoceptor idazoxan binding sites, 108, 312
- Imidazoline binding sites**, Species-selective binding of [ $^3H$ ]-idazoxan to  $\alpha_2$ -adrenoceptors and non-adrenoceptor, imidazoline binding sites in the central nervous system, 109, 831
- Imidazoline receptors**, Antagonism of the stimulatory effects of efaroxan and glibenclamide in rat pancreatic islets by the imidazoline, RX801080, 110, 1017
- Mediation of the hypotensive action of systemic clonidine in the rat by  $\alpha_2$ -adrenoceptors, 110, 1635
  - Relevance of the use of [ $^3H$ ]-clonidine to identify imidazoline

- receptors in the rabbit brainstem, 110, 1537
- Immunohistochemistry**, Nitric oxide synthase in pig lower urinary tract: immunohistochemistry, NADPH diaphorase histochemistry and functional effects, 110, 521
- Indazole derivatives**, Characterization of the novel nitric oxide synthase inhibitor 7-nitro indazole and related indazoles: antinociceptive and cardiovascular effects, 110, 219
- Inhibition of rat cerebellar nitric oxide synthase by 7-nitro indazole and related substituted indazoles, 110, 225
- Indo-1**, Differential effects of cocaine and cocaethylene on intracellular  $\text{Ca}^{2+}$  and myocardial contraction in cardiac myocytes, 109, 293
- Indoles**, The effects of single and repeated anorectic doses of 5-hydroxytryptamine uptake inhibitors on indole levels in rat brain, 110, 355
- Indomethacin**, Bacterial endotoxin rapidly stimulates prolonged endothelium-dependent vasodilatation in the rat isolated perfused heart, 109, 987
- Differential sensitivity of antinociceptive assays to the bradykinin antagonist Hoe 140, 108, 209
  - Effects of pyrimidines on the guinea-pig coronary vasculature, 110, 1091
  - Endothelin-1 in the rabbit: interactions with cyclo-oxygenase and NO-synthase products, 108, 838
- Infarct size**, Comparison of the effects of EXP3174, an angiotensin II antagonist and enalaprilat on myocardial infarct size in anaesthetized dogs, 110, 969
- Inflammation**, Bradykinin-induced airflow obstruction and airway plasma exudation: effects of drugs that inhibit acetylcholine, thromboxane  $\text{A}_2$  or leukotrienes, 110, 657
- Cholecystokinin as a factor in the enhanced potency of spinal morphine following carrageenin inflammation, 108, 967
  - E-type prostaglandins enhance local oedema formation and neutrophil accumulation but suppress eosinophil accumulation in guinea-pig skin, 110, 416
  - Effect of dexamethasone on neutrophil accumulation and oedema formation in rabbit skin: an investigation of site of action, 108, 959
  - Effect of heparin and a low-molecular weight heparinoid on PAF-induced airway responses in neonatally immunized rabbits, 110, 107
  - Effects of interactions of naturally-occurring neuropeptides on blood flow in the rat knee joint, 108, 694
  - Induction of bradykinin  $\text{B}_1$  receptors *in vivo* in a model of ultra-violet irradiation-induced thermal hyperalgesia in the rat, 110, 1441
  - Involvement of nitric oxide synthase in the delayed vasodilator response to ultraviolet light irradiation of rat skin *in vivo*, 109, 802
  - The modulation of inflammatory oedema by calcitonin gene-related peptide, 108, 705
  - Nitric oxide modulates vascular permeability in the rat coronary circulation, 108, 323
  - Role of platelet-activating factor (PAF) in platelet accumulation in rabbit skin: effect of the novel long-acting PAF antagonist, UK-74,505, 109, 234
  - Role of prostaglandins and nitric oxide in acute inflammatory reactions in guinea-pig skin, 110, 1515
  - Specific inhibition of leukotriene  $\text{B}_2$  ( $\text{LTB}_2$ )-induced neutrophil emigration by 20-hydroxy  $\text{LTB}_2$ : implications for the regulation of inflammatory responses, 110, 423
  - Suppression of inflammatory responses to 12-*O*-tetradecanoyl-phorbol-13-acetate and carrageenin by YM-26734, a selective inhibitor of extracellular group II phospholipase  $\text{A}_2$ , 110, 447
  - Suppression by intradermal administration of heparin of eosinophil accumulation but not oedema formation in inflammatory reactions in guinea-pig skin, 110, 1496
- Inflammation, intestinal**, The induction of nitric oxide synthase and intestinal vascular permeability by endotoxin in the rat, 110, 1189
- Inflammation, neurogenic**, Capsaicin-induced relaxation in the rat isolated external urethral sphincter: characterization of the vanilloid receptor and mediation by CGRP, 110, 989
- Effect of a calcitonin gene-related peptide antagonist ( $\text{CGRP}_{8-37}$ ) on skin vasodilatation and oedema induced by stimulation of the rat saphenous nerve, 110, 772
  - Identification of both  $\text{NK}_1$  and  $\text{NK}_2$  receptors in guinea-pig airways, 110, 693
  - A non-peptide  $\text{NK}_1$ -receptor antagonist, RP 67580, inhibits neurogenic inflammation postsynaptically, 109, 259
  - Time-dependent blockade of neurogenic plasma extravasation in dura mater by 5-HT $_{1B/D}$  agonists and endopeptidase 24.11, 108, 331
- Inflammatory cell counts**, Virus-induced airway hyperresponsiveness in the guinea-pig: possible involvement of histamine and inflammatory cells, 108, 1083
- Inhibitory junction potential**, S-nitrosocysteine, but not sodium nitroprusside, produces apamin-sensitive hyperpolarization in rat gastric fundus, 109, 415
- Inositol 1,3,4,5-tetrakisphosphate**, Characterization of the effects of lithium on phosphatidylinositol (PI) cycle activity in human muscarinic m1 receptor-transfected CHO cells, 110, 809
- Inositol 1,4,5-trisphosphate**, Characterization of the effects of lithium on phosphatidylinositol (PI) cycle activity in human muscarinic m1 receptor-transfected CHO cells, 110, 809
- Inositol monophosphatase**, Characterization of the effects of lithium on phosphatidylinositol (PI) cycle activity in human muscarinic m1 receptor-transfected CHO cells, 110, 809
- Inositol monophosphate**, Characterization of the effects of lithium on phosphatidylinositol (PI) cycle activity in human muscarinic m1 receptor-transfected CHO cells, 110, 809
- Inositol phosphate binding sites**, Inositol 1,4,5-trisphosphate and inositol 1,3,4,5-tetrakisphosphate binding sites in smooth muscle, 109, 905
- Inositol phosphates**, Activation by calcium alone of chloride secretion in  $\text{T}_{84}$  epithelial cells, 109, 510
- Activation of the phospholipase C pathway by ATP is mediated exclusively through nucleotide type  $\text{P}_2$ -purinoceptors in C2C12 myotubes, 110, 747
  - $[\text{Ca}^{2+}]_i$ -sensitive,  $\text{IP}_3$ -independent  $\text{Ca}^{2+}$  influx in smooth muscle of rat vas deferens revealed by procaine, 110, 1353
  - Characterization of the effects of lithium on phosphatidylinositol (PI) cycle activity in human muscarinic m1 receptor-transfected CHO cells, 110, 809
  - Characterization of  $\text{P}_2$ -purinoceptor mediated cyclic AMP formation in mouse C2C12 myotubes, 110, 133
  - Desensitization of histamine  $\text{H}_1$  receptor-mediated inositol phosphate production in HeLa cells, 109, 353
  - Effects of a water-soluble forskolin derivative (NKH477) and a membrane-permeable cyclic AMP analogue on noradrenaline-induced  $\text{Ca}^{2+}$  mobilization in smooth muscle of rabbit mesenteric artery, 110, 1117
  - Endothelin-1 (ET-1)-induced contraction in rat isolated trachea: involvement of  $\text{ET}_A$  and  $\text{ET}_B$  receptors and multiple signal transduction systems, 110, 435
  - Evidence that a form of ATP uncomplexed with divalent cations is the ligand of  $\text{P}_{2y}$  and nucleotide/ $\text{P}_{2u}$  receptors on aortic endothelial cells, 109, 967
  - Excitatory amino acid receptor-stimulated phosphoinositide turnover in primary cerebrocortical cultures, 109, 379
  - Mechanism of carbachol-evoked contractions of guinea-pig ileal smooth muscle close to freezing point, 109, 1029
  - Muscarinic regulation of cytosolic free calcium in canine tracheal smooth muscle cells:  $\text{Ca}^{2+}$  requirement for phospholipase C activation, 110, 1239
  - Pharmacological characteristics of the positive inotropic effect of angiotensin II in the rabbit ventricular myocardium, 108, 999
- [ $^3\text{H}$ ]-Inositol phosphates**, Desensitization of histamine  $\text{H}_1$  receptor-mediated inositol phosphate accumulation in guinea pig cerebral cortex slices, 110, 269
- Inositol phospholipid hydrolysis**, Histamine  $\text{H}_1$ -receptor-mediated inositol phospholipid hydrolysis in DDT $_1$ MF-2 cells: agonist and antagonist properties, 108, 196
- Non-peptide antagonists, CP-96,345 and RP 67580, distinguish species variants in tachykinin  $\text{NK}_1$  receptors, 108, 223
  - Pharmacological characterization of the metabotropic glutamate receptor inhibiting D-[ $^3\text{H}$ ]-aspartate output in rat striatum, 110, 1407
- Inositol trisphosphate**, Eicosanoid-induced  $\text{Ca}^{2+}$  release and sustained contraction in  $\text{Ca}^{2+}$ -free media are mediated by different signal transduction pathways in rat aorta, 110, 875
- Inotropic action, positive**, Mechanical and electrophysiological studies on the positive inotropic effect of 2-phenyl-4-oxo-hydroquinoline in rat cardiac tissues, 110, 310
- Inotropic agents**, Cellular mechanism of the positive inotropic effect of hydralazine in mammalian myocardium, 109, 667
- Characterization of the 5-hydroxytryptamine receptor mediating the positive inotropic response in guinea-pig isolated left atria, 109, 1192
  - Inotropism, Possible action of cyclopiazonic acid on myocardial sarcoplasmic reticulum: inotropic effects on neonatal and adult rat

- heart, 108, 571
- Insulin**, Insulin-mediated sensitization of adenylyl cyclase activation, 110, 1640
- Vasoreactivity and prostacyclin release in streptozotocin-diabetic rats: effects of insulin or aldose reductase inhibition, 109, 980
- Insulin release**, Inhibition by hydrochlorothiazide of insulin release and calcium influx in mouse pancreatic  $\beta$ -cells, 110, 1359
- Insulin secretion**, Antagonism of the stimulatory effects of efaroxan and glibenclamide in rat pancreatic islets by the imidazoline, RX801080, 110, 1017
- Inhibition of the ATP-sensitive potassium channel by class I antiarrhythmic agent, cibenzoline, in rat pancreatic  $\beta$ -cells, 109, 1226
  - Stimulation of insulin secretion by imidazoline compounds is not due to interaction with non-adrenoceptor idazoxan binding sites, 108, 312
  - Stimulation of insulin secretion and improvement of glucose tolerance in rat and dog by the  $P_{2U}$ -purinoceptor agonist, adenosine-5'-O-(2-thiodiphosphate), 109, 183
- Interferon- $\gamma$** , Feedback inhibition of nitric oxide synthase activity by nitric oxide, 108, 833
- Porcine ventricular endocardial cells in culture express the inducible form of nitric oxide synthase, 108, 1107
  - Selective inhibition by dexamethasone of induction of NO synthase, but not of induction of L-arginine transport, in activated murine macrophage J774 cells, 110, 1401
- Interleukins**, Bradykinin initiates cytokine-mediated inflammatory hyperalgesia, 110, 1227
- Effects of pyrogenic immunomodulators on the release of corticotrophin-releasing factor-41 and prostaglandin  $E_2$  from the intact rat hypothalamus *in vitro*, 109, 88
- Interleukin-1**, [Leu<sup>8</sup>]des-Arg<sup>9</sup>-bradykinin inhibits the angiogenic effect of bradykinin and interleukin-1 in rats, 109, 14
- Role of cyclic AMP in promoting the thromboresistance of human endothelial cells by enhancing thrombomodulin and decreasing tissue factor activities, 109, 18
  - Serum corticosterone, interleukin-1 and tumour necrosis factor in rat experimental endotoxaemia: comparison between Lewis and Wistar strains, 110, 868
  - Stimulation of angiogenesis by substance P and interleukin-1 in the rat and its inhibition by NK<sub>1</sub> or interleukin-1 receptor antagonists, 110, 43
- Interleukin-1 receptor antagonists**, Stimulation of angiogenesis by substance P and interleukin-1 in the rat and its inhibition by NK<sub>1</sub> or interleukin-1 receptor antagonists, 110, 43
- Interleukin-1 $\alpha$** , Prevention of nitric oxide synthase induction in vascular smooth muscle cells by microtubule depolymerizing agents, 109, 603
- Interleukin-1 $\beta$** , Nitric oxide mediates the inhibition by interleukin-1 $\beta$  of pentagastrin-stimulated rat gastric acid secretion, 108, 9
- Peripheral endotoxin induces hypothalamic immunoreactive interleukin-1 $\beta$  in the rat, 109, 289
  - Porcine ventricular endocardial cells in culture express the inducible form of nitric oxide synthase, 108, 1107
- Intestinal cells**, Interaction of selective compounds with muscarinic receptors at dispersed intestinal smooth muscle cells, 108, 393
- Intestinal mucosa**, Evidence for the involvement of a 5-HT<sub>4</sub> receptor in the secretory response of human small intestine to 5-HT, 110, 927
- Intestinal secretion**, Active secretion of the fluoroquinolone ciprofloxacin by human intestinal epithelial Caco-2 cell layers, 108, 575
- Transport of celiprolol across human intestinal epithelial (Caco-2) cells: mediation of secretion by multiple transporters including P-glycoprotein, 110, 1009
- Intestinal transport**, Transport of celiprolol across human intestinal epithelial (Caco-2) cells: mediation of secretion by multiple transporters including P-glycoprotein, 110, 1009
- Intestine**, Enteral absorption of octreotide: absorption enhancement by polyoxyethylene-24-cholesterol ether, 108, 298
- Intracellular recordings**, Electrophysiological actions of alfentanil: intracellular studies in the rat locus coeruleus neurones, 110, 903
- Thiocyanate ions selectively antagonize AMPA-evoked responses in *Xenopus laevis* oocytes microinjected with rat brain mRNA, 109, 779
- Intracerebroventricular injection**, Effects of intracerebroventricular injection of histamine and related compounds on corticosterone release in rats, 109, 807
- Intranasal antigen challenge**, Interference of a neutrophil recruitment inhibitory factor upon the accumulation of inflammatory cells and airway hyperreactivity in sensitized guinea-pigs after intranasal antigen challenge, 108, 538
- Intrathecal administration**, Inhibition of spinal opioid antinociception by intrathecal  $\delta$ -endorphin<sub>1-27</sub> in the rat, 108, 1137
- The spinal antinociceptive activity of the  $\alpha_2$ -adrenoceptor agonist, xylazine in sheep, 108, 907
- Inulin clearance**, The diuretic action of 8-cyclopentyl-1,3-dipropylxanthine, a selective A<sub>1</sub> adenosine receptor antagonist, 109, 271
- Iodine efflux**, Kinin-induced chloride permeability changes in colony 29 epithelia estimated from <sup>125</sup>I<sup>-</sup> efflux and MEQ fluorescence, 108, 469
- Ion channel blockade**, Ion channel blockade by oximes and recovery of diaphragm muscle from soman poisoning *in vitro*, 108, 1006
- Ion channels**, Activation of ion channels by lysylbradykinin in the HCA-7 colony 29 human adenocarcinoma cell line, 108, 479
- Ionomycin**, Ionomycin-induced acetylcholine release and its inhibition by adenosine at frog motor nerve endings, 110, 828
- Ipsapirone**, The effects of  $\alpha_2$ -adrenoceptor antagonists on the inhibition of 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane (DOI)-induced head shakes by 5-HT<sub>1A</sub> receptor agonists in the mouse, 109, 1046
- Iris, rabbit**, Effects of ruthenium red and capsazepine on C-fibres in the rabbit iris, 110, 1073
- Iris sphincter**, Tachykinin receptors mediating responses to sensory nerve stimulation and exogenous tachykinins and analogues in the rabbit isolated iris sphincter, 109, 1008
- IRL 1038**, Induction of endothelium-dependent relaxation in the rat aorta by IRL 1620, a novel and selective agonist at the endothelin ET<sub>B</sub> receptor, 109, 486
- IRL 1620**, Characterization of receptors for endothelins in the perfused arterial and venous mesenteric vasculatures of the rat, 110, 687
- Induction of endothelium-dependent relaxation in the rat aorta by IRL 1620, a novel and selective agonist at the endothelin ET<sub>B</sub> receptor, 109, 486
- Irreversible agonism**, Chloroethylclonidine: an irreversible agonist at prejunctional  $\alpha_2$ -adrenoceptors in rat vas deferens, 108, 336
- Ischaemia**, Allopurinol and amlodipine improve coronary vasodilatation after myocardial ischaemia and reperfusion in anaesthetized dogs, 108, 342
- Attenuation of reperfusion hyperalgesia in the rat by systemic administration of benzodiazepines, 110, 1067
  - Differential Class III and glibenclamide effects on action potential duration in guinea-pig papillary muscle during normoxia and hypoxia/ischaemia, 110, 531
  - The effects of evening primrose oil on nerve function and capillarization in streptozotocin-diabetic rats: modulation by the cyclo-oxygenase inhibitor flurbiprofen, 109, 972
  - Effects of hyperkalaemia on the depression of maximum rate of depolarization by class I antiarrhythmic agents in guinea-pig myocardium, 108, 255
  - Hoe 694, a new Na<sup>+</sup>/H<sup>+</sup> exchange inhibitor and its effects in cardiac ischaemia, 109, 562
  - Na<sup>+</sup>/H<sup>+</sup> exchange inhibitors reverse lactate-induced depression in postischaemic ventricular recovery, 108, 50
  - Protective effects of ranolazine in guinea-pig hearts during low-flow ischaemia and their association with increases in active pyruvate dehydrogenase, 109, 748
  - Ramiprilat increases bradykinin outflow from isolated hearts of rat, 108, 293
- Ischaemia-reperfusion**, Nitric oxide modulates vascular permeability in the rat coronary circulation, 108, 323
- Islets of Langerhans**, Antagonism of the stimulatory effects of efaroxan and glibenclamide in rat pancreatic islets by the imidazoline, RX801080, 110, 1017
- Stimulation of insulin secretion by imidazoline compounds is not due to interaction with non-adrenoceptor idazoxan binding sites, 108, 312
- 3-Isobutyl-L-methylxanthine (IBMX)**, The effect of cyclic AMP and cyclic GMP phosphodiesterase inhibitors on the superoxide burst of guinea-pig peritoneal macrophages, 108, 876
- Isoprenaline**,  $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal K<sup>+</sup>-channels in bovine trachealis muscle: studies of mechanical activity and ion fluxes, 109, 1149
- $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal K<sup>+</sup>-channels in trachealis muscle: electrophysiological and mechanical studies in guinea-pig tissue, 109, 1140
  - E-type prostaglandins enhance local oedema formation and neutrophil

- accumulation but suppress eosinophil accumulation in guinea-pig skin, 110, 416
- Effects of prolonged application of isoprenaline on intracellular free magnesium concentration in isolated heart of rat, 109, 443
- Effects of rolipram and siguazodan on the human isolated bronchus and their interaction with isoprenaline and sodium nitroprusside, 109, 774
- Effects of selective antagonism of  $\beta$ -adrenoceptor sub-types on responses to isoprenaline in rat distal colon *in vitro*, 110, 1551
- Enhancement of airway reactivity to histamine by isoprenaline and related  $\beta$ -adrenoceptor agonists in the guinea-pig, 108, 1016
- Evaluation of the relaxant effects of SCA40, a novel charybdotoxin-sensitive potassium channel opener, in guinea-pig isolated trachealis, 108, 622
- Fendiline inhibits L-type calcium channels in guinea-pig ventricular myocytes: a whole-cell patch-clamp study, 108, 865
- Influence of epithelium on the inhibition of melittin-induced contraction of guinea-pig isolated trachea by the potassium channel opener NIP-121, 109, 1091
- Investigations into factors determining the duration of action of the  $\beta_2$ -adrenoceptor agonist, salmeterol, 108, 507
- Salmeterol, a long-acting  $\beta_2$ -adrenoceptor agonist mediating cyclic AMP accumulation in a neuronal cell line, 110, 619
- Isoquinoline**, Binding and structure-activity-relation of benzof[isoquinoline]- and norcodeinone-derivatives at  $\mu$ -opioid receptors in the rat cerebral cortex, 110, 1429
- Isradipine**, Radioligand and functional estimates of the interaction of the 1,4-dihydropyridines, isradipine and lacidipine, with calcium channels in smooth muscle, 109, 100

## J

- J774 cells**, Feedback inhibition of nitric oxide synthase activity by nitric oxide, 108, 833
- Joint**, Sympathetic innervation and  $\alpha$ -adrenoceptor profile of blood vessels in the posterior region of the rabbit knee joint, 108, 79

## K

- Kainate receptors**, Inhibition by the adenosine analogue, (*R*)-*N*<sup>6</sup>-phenylisopropyladenosine, of kainic acid neurotoxicity in rat hippocampus after systemic administration, 109, 316
- Kainic acid**, A comparison of the actions of agonists and antagonists at non-NMDA receptors of C fibres and motoneurons of the immature rat spinal cord *in vitro*, 108, 179
- Inhibition by the adenosine analogue, (*R*)-*N*<sup>6</sup>-phenylisopropyladenosine, of kainic acid neurotoxicity in rat hippocampus after systemic administration, 109, 316
- Inotropic glutamate receptor types leading to adenosine-mediated inhibition of electrically evoked [<sup>3</sup>H]-noradrenaline release in rabbit brain cortex slices, 110, 1544
- Mediation of the neuroprotective action of *R*-phenylisopropyladenosine through a centrally located adenosine A<sub>1</sub> receptor, 110, 470
- Selective reduction of *N*-methyl-D-aspartate-evoked responses by 1,3-di(2-tolyl)guanidine in mouse and rat cultured hippocampal pyramidal neurones, 109, 1196
- Kallidin**, Activation by *Phoneutria nigriventer* (armed spider) venom of tissue kallikrein-kininogen-kinin system in rabbit skin *in vivo*, 109, 539
- Kallikrein**, Chronic kinin receptor blockade induces hypertension in deoxycorticosterone-treated rats, 108, 651
- Ketamine**, Halothane inhibits the pressor effect of diphenyleneiodonium, 109, 1186
- Kidney**, Chloride anion concentration as a determinant of renal vascular responsiveness to vasoconstrictor agents, 108, 106
- Effect of tienoxolol, a new diuretic  $\beta$ -blocking agent, on urinary prostaglandin excretion in the rat, 109, 278
- Enhancement by endothelin-1 of microvascular permeability via the activation of ET<sub>A</sub> receptors, 109, 880
- Kinetic study of the tubular dopamine outward transporter in the rat and dog kidney, 109, 577
- Mediation via different receptors of the vasoconstrictor effects of endothelins and sarafotoxins in the systemic circulation and renal vasculature of the anaesthetized rat, 108, 776
- Modulation by nitric oxide of platelet-activating factor-induced albumin extravasation in the conscious rat, 110, 1347

- Renal selective *N*-acetyl-L- $\gamma$ -glutamyl prodrugs: studies on the selectivity of some model prodrugs, 108, 204
- Renal tubular dopamine outward transfer during Na<sup>+</sup>-H<sup>+</sup> exchange activation by  $\alpha_1$ - and  $\alpha_2$ -adrenoceptor agonists, 109, 569
- Kidney, rat**,  $\alpha_2$ -Autoreceptor subclassification in rat isolated kidney by use of short trains of electrical stimulation, 108, 262
- Eicosanoid-dependence of responses of pre- but not postglomerular vessels to noradrenaline in rat isolated kidneys, 110, 235
- Kidney, sheep**, Effects of direct renal arterial infusion of bufalin and ouabain in conscious sheep, 108, 627
- Kinin antagonists**, Chronic kinin receptor blockade induces hypertension in deoxycorticosterone-treated rats, 108, 651
- Kinins**, Evidence for participation of B<sub>1</sub> and B<sub>2</sub> kinin receptors in formalin-induced nociceptive response in the mouse, 110, 193
- Knee joint, rat**, Effects of interactions of naturally-occurring neuropeptides on blood flow in the rat knee joint, 108, 694
- KRN2391**, Antiarrhythmic drugs, clofilium and cibenzoline are potent inhibitors of glibenclamide-sensitive K<sup>+</sup> currents in *Xenopus* oocytes, 109, 866
- Effects of KRN2391, nicorandil and diltiazem on the changes in the electrocardiogram caused by endothelin-1 in anaesthetized rats, 109, 679
- Vasorelaxant mechanism of KRN2391 and nicorandil in porcine coronary arteries of different sizes, 109, 632
- Kytorphin**, L-Arginine exerts a dual role in nociceptive processing in the brain: involvement of the kytorphin-Met-enkephalin pathway and NO-cyclic GMP pathway, 109, 73

## L

- L-365,260**, Analysis of the CCK<sub>B</sub> receptor antagonism of virginiamycin in guinea-pig ileum longitudinal myenteric plexus, 108, 1164
- Cholecystokinin as a factor in the enhanced potency of spinal morphine following carrageenin inflammation, 108, 967
- L-687,414**, Lack of effect of L-687,414 ((+)-*cis*-4-methyl-HA-966), an NMDA receptor antagonist acting at the glycine site, on cerebral glucose metabolism and cortical neuronal morphology, 110, 36
- L-694,247**, L-694,247: a potent 5-HT<sub>1D</sub> receptor agonist, 110, 1196
- L-CCG-I**, Pharmacological characterization of the metabotropic glutamate receptor inhibiting D-[<sup>3</sup>H]-aspartate output in rat striatum, 110, 1407
- Labrus ossifagus**, Cloning and expression of a fish  $\alpha_2$ -adrenoceptor, 110, 54
- Lacidipine**, Radioligand and functional estimates of the interaction of the 1,4-dihydropyridines, isradipine and lacidipine, with calcium channels in smooth muscle, 109, 100
- Lactate**, Na<sup>+</sup>/H<sup>+</sup> exchange inhibitors reverse lactate-induced depression in postischaemic ventricular recovery, 108, 50
- Laser Doppler flowmetry**, Effect of a calcitonin gene-related peptide antagonist (CGRP<sub>8-37</sub>) on skin vasodilatation and oedema induced by stimulation of the rat saphenous nerve, 110, 772
- The paradoxical vascular interactions between endothelin-1 and calcitonin gene-related peptide in the rat gastric mucosal microcirculation, 110, 496
- Lectins**, EDRF release from canine coronary artery by lectins, 110, 1473
- Lemakalim**, Partial inhibition by epithelium of tracheal smooth muscle relaxation induced by the potassium channel activator, BRL 38227, 110, 139
- Leukocytes**, Dissociation of the anti-ischaemic effects of cloricromene from its anti-platelet activity, 110, 275
- Inhibition by rapamycin of leukocyte migration and bronchial hyperreactivity induced by injection of Sephadex beads to guinea-pigs, 110, 1381
- Inhibition by recombinant SLPI and half-SLPI (Asn<sup>55</sup>-Ala<sup>107</sup>) of elastase and cathepsin G activities: consequence for neutrophil-platelet cooperation, 108, 1100
- Insulin-mediated sensitization of adenylyl cyclase activation, 110, 1640
- Pharmacological differentiation by pertussis toxin of the *in vivo* acute responses to fMLP and PAF in guinea-pig lungs, 108, 412
- Roles of prostacyclin, EDRF and active oxygens in leukocyte-dependent platelet adhesion to endothelial cells induced by platelet-activating factor *in vitro*, 109, 524
- Leukocytes, migration of**, Anti-inflammatory actions of an N-terminal peptide from human lipocortin 1, 108, 573

- Leukocytes, peritoneal**, Glucocorticoid - and non-glucocorticoid induction of lipocortins (annexins) 1 and 2 in rat peritoneal leucocytes *in vivo*, 108, 66
- Leukocytes, polymorphonuclear**, Acetylcholine-induced relaxation in bovine isolated mesenteric arteries is suppressed by polymorphonuclear leukocytes, 109, 8
- Inhibition by nitric oxide-donors of human polymorphonuclear leucocyte functions, 109, 852
- Leukotrienes**, Bradykinin-induced airflow obstruction and airway plasma exudation: effects of drugs that inhibit acetylcholine, thromboxane A<sub>2</sub> or leukotrienes, 110, 657
- Characterization and pharmacological modulation of antigen-induced peritonitis in actively sensitized mice, 110, 917
  - Influence of epithelium on the inhibition of melittin-induced contraction of guinea-pig isolated trachea by the potassium channel opener NIP-121, 109, 1091
  - Role of leukotrienes in airway hyperresponsiveness in guinea-pigs, 108, 700
- Leukotriene B<sub>4</sub>**, Specific inhibition of leukotriene B<sub>4</sub> (LTB<sub>4</sub>)-induced neutrophil emigration by 20-hydroxy LTB<sub>4</sub>: implications for the regulation of inflammatory responses, 110, 423
- Leukotriene D<sub>4</sub>**, Leukotriene D<sub>4</sub>- and prostaglandin F<sub>2α</sub>-induced airflow obstruction and airway plasma exudation in guinea-pig: role of thromboxane and its receptor, 110, 127
- Leukotriene receptors**, Inhibition by nitric oxide-donors of human polymorphonuclear leucocyte functions, 109, 852
- Leukotriene D<sub>4</sub> receptors are not negatively coupled to adenylyl cyclase in guinea-pig lung parenchyma, 108, 824
- Levamisole**, Levamisole-activated single-channel currents from muscle of the nematode parasite *Ascaris suum*, 108, 170
- Levcromakalim**, Antagonism of levcromakalim by imidazoline- and guanidine-derivatives in rat portal vein: involvement of the delayed rectifier, 110, 1556
- Attenuation by phentolamine of hypoxia and levcromakalim-induced abbreviation of the cardiac action potential, 110, 1222
  - Comparison of the airways relaxant and hypotensive potencies of the potassium channel activators BRL 55834 and levcromakalim (BRL 38227) *in vivo* in guinea-pigs and rats, 109, 1133
  - Differential effects of acetylcholine, nitric oxide and levcromakalim on smooth muscle membrane potential and tone in the rabbit basilar artery, 110, 651
  - Effects of the novel potassium channel opener, UR-8225, on contractile responses in rat isolated smooth muscle, 110, 1165
  - Effects of rubidium on responses to potassium channel openers in rat isolated aorta, 109, 925
  - Induction of a glibenclamide-sensitive K-current by modification of a delayed rectifier channel in rat portal vein and insulinoma cells, 110, 1280
  - Levcromakalim may induce a voltage-independent K-current in rat portal veins by modifying the gating properties of the delayed rectifier, 110, 1037
  - Modulation of vasodilatation to levcromakalim by hypoxia and EDRF in the rabbit isolated ear: a comparison with pinacidil, sodium nitroprusside and verapamil, 109, 386
  - Single channel and whole-cell K-currents evoked by levcromakalim in smooth muscle cells from the rabbit portal vein, 110, 583
- Lifarizine**, The effect of lifarizine (RS-87476), a novel sodium and calcium channel modulator, on ischaemic dopamine depletion in the corpus striatum of the gerbil, 109, 175
- Ligand binding**, Binding and structure-activity-relation of benzof[isoquinoline- and norcodeinone-derivatives at  $\mu$ -opioid receptors in the rat cerebral cortex, 110, 1429
- Demonstration of the suitability of CGP 12177 for *in vivo* studies of  $\beta$ -adrenoceptors, 109, 1101
  - Insulin-mediated sensitization of adenylyl cyclase activation, 110, 1640
  - Ligand binding properties of putative  $\beta_3$ -adrenoceptors compared in brown adipose tissue and in skeletal muscle membranes, 109, 1157
  - Relevance of the use of [<sup>3</sup>H]-clonidine to identify imidazoline receptors in the rabbit brainstem, 110, 1537
- Lignocaine**, Block of voltage-dependent sodium currents by the substance P receptor antagonist ( $\pm$ )-CP-96,345 in neurones cultured from rat cortex, 109, 918
- Effects of hyperkalaemia on the depression of maximum rate of depolarization by class I antiarrhythmic agents in guinea-pig myocardium, 108, 255
  - Kinetics of rate-dependent slowing of intraventricular conduction by the class Ib antiarrhythmic agent tocainide *in vivo*, 110, 145
- Limbic system**, Centrally administered ouabain aggravates rapid-eye-movement-sleep-related bradyarrhythmias in freely moving rats, 110, 253
- Lipase**, Pathological events in experimental acute pancreatitis prevented by the bradykinin antagonist, Hoe 140, 108, 405
- Lipid**, Effects of dicentrine on haemodynamic, plasma lipid, lipoprotein level and vascular reactivity in hyperlipidaemic rats, 108, 1055
- Lipid peroxidation**, Cellular mechanism of U78517F in the protection of porcine coronary artery endothelial cells from oxygen radical-induced damage, 108, 1077
- Lipocortins**, Anti-inflammatory actions of an N-terminal peptide from human lipocortin 1, 108, 573
- Glucocorticoid - and non-glucocorticoid induction of lipocortins (annexins) 1 and 2 in rat peritoneal leucocytes *in vivo*, 108, 66
  - The local anti-inflammatory action of dexamethasone in the rat carrageenin oedema model is reversed by an antiserum to lipocortin 1, 108, 62
- Lipolysis**, Characterization of the adenosine receptor mediating contraction in rat colonic muscularis mucosae, 110, 1255
- Evidence for a functional  $\beta_3$ -adrenoceptor in man, 110, 929
- Lipopolysaccharides**, Dependence of endotoxin-induced vascular hyporeactivity on extracellular L-arginine, 108, 38
- Effects of pyrogenic immunomodulators on the release of corticotrophin-releasing factor-41 and prostaglandin E<sub>2</sub> from the intact rat hypothalamus *in vitro*, 109, 88
  - Endotoxin-induced arterial endothelial barrier dysfunction assessed by an *in vitro* model, 110, 1282
  - Feedback inhibition of nitric oxide synthase activity by nitric oxide, 108, 833
  - Interference of a neutrophil recruitment inhibitory factor upon the accumulation of inflammatory cells and airway hyperreactivity in sensitized guinea-pigs after intranasal antigen challenge, 108, 538
  - Nitric oxide-mediated hyporeactivity to noradrenaline precedes the induction of nitric oxide synthase in endotoxin shock, 108, 786
  - Porcine ventricular endocardial cells in culture express the inducible form of nitric oxide synthase, 108, 1107
  - Selective inhibition by dexamethasone of induction of NO synthase, but not of induction of L-arginine transport, in activated murine macrophage J774 cells, 110, 1401
- Lipoproteins**, Effects of dicentrine on haemodynamic, plasma lipid, lipoprotein level and vascular reactivity in hyperlipidaemic rats, 108, 1055
- Lipoxygenase**, Role of oxygen radicals and arachidonic acid metabolites in the reverse passive Arthus reaction and carrageenin paw oedema in the rat, 110, 896
- 5-Lipoxygenase inhibitors**, Role of oxygen radicals and arachidonic acid metabolites in the reverse passive Arthus reaction and carrageenin paw oedema in the rat, 110, 896
- Lisinopril**, Effects of lisinopril on electromechanical properties and membrane currents in guinea-pig cardiac preparations, 109, 873
- Lithium**, Characterization of the effects of lithium on phosphatidylinositol (PI) cycle activity in human muscarinic m1 receptor-transfected CHO cells, 110, 809
- Lithium clearance**, The diuretic action of 8-cyclopentyl-1,3-dipropylxanthine, a selective A<sub>1</sub> adenosine receptor antagonist, 109, 271
- Liver**, Binding of angiotensin antagonists to rat liver and brain membranes measured *ex vivo*, 109, 760
- Liver, rat**, Characterization of the effects of adenosine 5'-[ $\beta$ -thio]diphosphate in rat liver, 108, 663
- Locomotor activity**,  $\alpha$ -Sialyl cholesterol reverses AF64A-induced deficit in passive avoidance response and depletion of hippocampal acetylcholine in mice, 108, 387
- Locus coeruleus**, Effects of the central analgesic tramadol and its main metabolite, O-desmethyltramadol, on rat locus coeruleus neurones, 110, 169
- Effects of potassium channel openers and their antagonists on rat locus coeruleus neurones, 109, 308
  - Electrophysiological actions of alfentanil: intracellular studies in the rat locus coeruleus neurones, 110, 903
- Long-term potentiation**, The effect of ions and second messengers on long-term potentiation of chemical transmission in avian ciliary ganglia, 110, 461
- Signal transduction pathways involved in the acute potentiation of

- NMDA responses by 1S,3R-ACPD in rat hippocampal slices, 109, 1085
- Losartan**, Binding of angiotensin antagonists to rat liver and brain membranes measured *ex vivo*, 109, 760
- Comparison of the regional haemodynamic effects of the AT<sub>1</sub>-receptor antagonists, losartan and EXP 3174, in water-deprived Brattleboro rats, 108, 684
  - Pharmacological characteristics of the positive inotropic effect of angiotensin II in the rabbit ventricular myocardium, 108, 999
  - Pharmacological characterization of the contractile responses to angiotensin analogues in guinea-pig isolated longitudinal muscle of small intestine, 108, 1150
  - Pharmacological characterization of the novel nonpeptide angiotensin II receptor antagonist, BIBR 277, 110, 245
  - Pharmacological profile of valsartan: a potent, orally active, nonpeptide antagonist of the angiotensin II AT<sub>1</sub>-receptor subtype, 110, 761
  - Regional haemodynamic effects of angiotensin II (3-8) in conscious rats, 110, 159
- Lung**, Comparison of the anti-inflammatory properties of formoterol, salbutamol and salmeterol in guinea-pig skin and lung, 110, 613
- Comparison of haemoconcentration induced by big endothelin-1 and endothelin-1 in mice, 110, 1395
  - Pharmacological differentiation by pertussis toxin of the *in vivo* acute responses to fMLP and PAF in guinea-pig lungs, 108, 412
  - Vasoreactivity and prostacyclin release in streptozotocin-diabetic rats: effects of insulin or aldose reductase inhibition, 109, 980
- Lung anaphylaxis**, Effects of vasoactive intestinal polypeptide on antigen-induced bronchoconstriction and thromboxane release in guinea-pig lung, 109, 243
- Lung, guinea-pig**, Inhibition by rapamycin of leukocyte migration and bronchial hyperreactivity induced by injection of Sephadex beads to guinea-pigs, 110, 1381
- Leukotriene D<sub>4</sub> receptors are not negatively coupled to adenylyl cyclase in guinea-pig lung parenchyma, 108, 824
- Lung, isolated guinea-pig**, Effects of vasoactive intestinal polypeptide on antigen-induced bronchoconstriction and thromboxane release in guinea-pig lung, 109, 243
- Lung membrane, rat**, Investigations into factors determining the duration of action of the  $\beta_2$ -adrenoceptor agonist, salmeterol, 108, 507
- Lung, neonatal rat**, Sodium modulation of <sup>3</sup>H-agonist and <sup>3</sup>H-antagonist binding to  $\alpha_2$ -adrenoceptor subtypes, 109, 371
- Lung, rat**, Demonstration of the suitability of CGP 12177 for *in vivo* studies of  $\beta$ -adrenoceptors, 109, 1101
- Lung resistance**, Enhancement of airway reactivity to histamine by isoprenaline and related  $\beta$ -adrenoceptor agonists in the guinea-pig, 108, 1016
- LY171883**, Formation of sulphidopeptide-leukotrienes by cell-cell interaction causes coronary vasoconstriction in isolated, cell-perfused heart of rabbit, 110, 1206
- LY274614**, Effects of LY274614, a competitive NMDA receptor antagonist, on the micturition reflex in the urethane-anaesthetized rat, 110, 77
- Lymphocyte proliferation**, Modulation of adjuvant arthritis by endogenous nitric oxide, 110, 701
- Lymphocytes**, Lymphocyte  $\beta_2$ -adrenoceptors and adenosine 3':5'-cyclic monophosphate during and after normal pregnancy, 108, 356
- Lysylbradykinin**, Activation of ion channels by lysylbradykinin in the HCA-7 colony 29 human adenocarcinoma cell line, 108, 479
- Cyclic AMP and Ca<sup>2+</sup> interactions affecting epithelial chloride secretion in human cultured colonic epithelia, 108, 462
  - Kinin-induced chloride permeability changes in colony 29 epithelia estimated from <sup>125</sup>I<sup>-</sup> efflux and MEQ fluorescence, 108, 469
- M**
- McNeill A 343**, Evidence that M<sub>1</sub> muscarinic receptors enhance noradrenaline release in mouse atria by activating protein kinase C, 110, 910
- Macrophage activation**, Modulation of adjuvant arthritis by endogenous nitric oxide, 110, 701
- Macrophages**, Feedback inhibition of nitric oxide synthase activity by nitric oxide, 108, 833
- Selective inhibition by dexamethasone of induction of NO synthase, but not of induction of L-arginine transport, in activated murine macrophage J774 cells, 110, 1401
- Magnesium**, Effects of prolonged application of isoprenaline on intracellular free magnesium concentration in isolated heart of rat, 109, 443
- Evidence that a form of ATP uncomplexed with divalent cations is the ligand of P<sub>2y</sub> and nucleotide/P<sub>2u</sub> receptors on aortic endothelial cells, 109, 967
  - Mg<sup>2+</sup> and caffeine-induced intracellular Ca<sup>2+</sup> release in human vascular endothelial cells, 109, 291
- Maitotoxin**, Ca<sup>2+</sup>-dependent aggregation of rabbit platelets induced by maitotoxin, a potent marine toxin, isolated from a dinoflagellate, 109, 29
- Mandevilla velutina compounds**, Evidence for participation of B<sub>1</sub> and B<sub>2</sub> kinin receptors in formalin-induced nociceptive response in the mouse, 110, 193
- Manganese influx**, The superficial buffer barrier in venous smooth muscle: sarcoplasmic reticulum refilling and unloading, 109, 336
- Marmosets**, Pharmacological profile of valsartan: a potent, orally active, nonpeptide antagonist of the angiotensin II AT<sub>1</sub>-receptor subtype, 110, 761
- Mast cells**, Activation of the Na<sup>+</sup>/K<sup>+</sup>-pump in rat peritoneal mast cells following histamine release: a possible role in cell recovery, 108, 120
- Mathematical models**, Kinetics of rate-dependent slowing of intraventricular conduction by the class Ib antiarrhythmic agent tocanide *in vivo*, 110, 145
- Matrix metalloproteinase**, Stimulated eosinophils and proteinases augment the transepithelial flux of albumin in bovine bronchial mucosa, 110, 840
- MDL72222**, Effects of cholinceptor and 5-hydroxytryptamine, receptor antagonism on erythromycin-induced canine intestinal motility disruption and emesis, 108, 44
- Mechanosensitive channels**, Ionic effects on amiloride block of the mechanosensitive channel in *Xenopus* oocytes, 108, 116
- Megakaryocyte, rat**, Existence of rolipram-sensitive phosphodiesterase in rat megakaryocyte, 109, 1020
- Melanophore**, Cloning and expression of a fish  $\alpha_2$ -adrenoceptor, 110, 54
- Melittin**, Influence of epithelium on the inhibition of melittin-induced contraction of guinea-pig isolated trachea by the potassium channel opener NIP-121, 109, 1091
- Membrane currents**, Membrane current responses to externally-applied ATP in the longitudinal muscle of the chicken rectum, 110, 87
- Membrane potential**, Differential effects of acetylcholine, nitric oxide and levcromakalim on smooth muscle membrane potential and tone in the rabbit basilar artery, 110, 651
- Effects of the central analgesic tramadol and its main metabolite, *O*-desmethyldramadol, on rat locus coeruleus neurones, 110, 169
  - Modification by charybdotoxin and apamin of spontaneous electrical and mechanical activity of the circular smooth muscle of the guinea-pig stomach, 109, 661
- Membrane transport**, Enteral absorption of octreotide: absorption enhancement by polyoxyethylene-24-cholesterol ether, 108, 298
- Mepyramine**, Endothelin-induced contraction and mediator release in human bronchus, 110, 392
- Relative contributions of direct and indirect mechanisms mediating endothelin-induced contraction of guinea-pig trachea, 110, 955
- MEQ fluorescence**, Kinin-induced chloride permeability changes in colony 29 epithelia estimated from <sup>125</sup>I<sup>-</sup> efflux and MEQ fluorescence, 108, 469
- Mesangial cell, rat**, Effect of extracellular ATP on contraction, cytosolic calcium activity, membrane voltage and ion currents of rat mesangial cells in primary culture, 109, 953
- Mesenteric vasculatures**, Characterization of receptors for endothelins in the perfused arterial and venous mesenteric vasculatures of the rat, 110, 687
- Methacholine**, Differential inhibition by N<sup>G</sup>-monomethyl-L-arginine of vasodilator effects of acetylcholine and methacholine in human forearm vasculature, 110, 736
- Methamphetamine**, Striatal dopamine release *in vivo* following neurotoxic doses of methamphetamine and effect of the neuroprotective drugs, chlormethiazole and dizocilpine, 108, 590
- N-Methyl-D-aspartate**, Selective reduction of N-methyl-D-aspartate-evoked responses by 1,3-di(2-tolyl)guanidine in mouse and rat cultured hippocampal pyramidal neurones, 109, 1196
- Whole cell and single channel analysis of the kinetics of glycine-sensitive N-methyl-D-aspartate receptor desensitization, 109, 213
- N-Methyl-D-aspartate receptors**, Postnatal changes in N-methyl-D-

- NMDA responses by 1S,3R-ACPD in rat hippocampal slices, 109, 1085
- Losartan**, Binding of angiotensin antagonists to rat liver and brain membranes measured *ex vivo*, 109, 760
- Comparison of the regional haemodynamic effects of the AT<sub>1</sub>-receptor antagonists, losartan and EXP 3174, in water-deprived Brattleboro rats, 108, 684
  - Pharmacological characteristics of the positive inotropic effect of angiotensin II in the rabbit ventricular myocardium, 108, 999
  - Pharmacological characterization of the contractile responses to angiotensin analogues in guinea-pig isolated longitudinal muscle of small intestine, 108, 1150
  - Pharmacological characterization of the novel nonpeptide angiotensin II receptor antagonist, BIBR 277, 110, 245
  - Pharmacological profile of valsartan: a potent, orally active, nonpeptide antagonist of the angiotensin II AT<sub>1</sub>-receptor subtype, 110, 761
  - Regional haemodynamic effects of angiotensin II (3-8) in conscious rats, 110, 159
- Lung**, Comparison of the anti-inflammatory properties of formoterol, salbutamol and salmeterol in guinea-pig skin and lung, 110, 613
- Comparison of haemoconcentration induced by big endothelin-1 and endothelin-1 in mice, 110, 1395
  - Pharmacological differentiation by pertussis toxin of the *in vivo* acute responses to fMLP and PAF in guinea-pig lungs, 108, 412
  - Vasoreactivity and prostacyclin release in streptozotocin-diabetic rats: effects of insulin or aldose reductase inhibition, 109, 980
- Lung anaphylaxis**, Effects of vasoactive intestinal polypeptide on antigen-induced bronchoconstriction and thromboxane release in guinea-pig lung, 109, 243
- Lung, guinea-pig**, Inhibition by rapamycin of leukocyte migration and bronchial hyperreactivity induced by injection of Sephadex beads to guinea-pigs, 110, 1381
- Leukotriene D<sub>4</sub> receptors are not negatively coupled to adenylyl cyclase in guinea-pig lung parenchyma, 108, 824
- Lung, isolated guinea-pig**, Effects of vasoactive intestinal polypeptide on antigen-induced bronchoconstriction and thromboxane release in guinea-pig lung, 109, 243
- Lung membrane, rat**, Investigations into factors determining the duration of action of the  $\beta_2$ -adrenoceptor agonist, salmeterol, 108, 507
- Lung, neonatal rat**, Sodium modulation of <sup>3</sup>H-agonist and <sup>3</sup>H-antagonist binding to  $\alpha_2$ -adrenoceptor subtypes, 109, 371
- Lung, rat**, Demonstration of the suitability of CGP 12177 for *in vivo* studies of  $\beta$ -adrenoceptors, 109, 1101
- Lung resistance**, Enhancement of airway reactivity to histamine by isoprenaline and related  $\beta$ -adrenoceptor agonists in the guinea-pig, 108, 1016
- LY171883**, Formation of sulphidopeptide-leukotrienes by cell-cell interaction causes coronary vasoconstriction in isolated, cell-perfused heart of rabbit, 110, 1206
- LY274614**, Effects of LY274614, a competitive NMDA receptor antagonist, on the micturition reflex in the urethane-anaesthetized rat, 110, 77
- Lymphocyte proliferation**, Modulation of adjuvant arthritis by endogenous nitric oxide, 110, 701
- Lymphocytes**, Lymphocyte  $\beta_2$ -adrenoceptors and adenosine 3':5'-cyclic monophosphate during and after normal pregnancy, 108, 356
- Lysylbradykinin**, Activation of ion channels by lysylbradykinin in the HCA-7 colony 29 human adenocarcinoma cell line, 108, 479
- Cyclic AMP and Ca<sup>2+</sup> interactions affecting epithelial chloride secretion in human cultured colonic epithelia, 108, 462
  - Kinin-induced chloride permeability changes in colony 29 epithelia estimated from <sup>125</sup>I<sup>-</sup> efflux and MEQ fluorescence, 108, 469
- M**
- McNeill A 343**, Evidence that M<sub>1</sub> muscarinic receptors enhance noradrenaline release in mouse atria by activating protein kinase C, 110, 910
- Macrophage activation**, Modulation of adjuvant arthritis by endogenous nitric oxide, 110, 701
- Macrophages**, Feedback inhibition of nitric oxide synthase activity by nitric oxide, 108, 833
- Selective inhibition by dexamethasone of induction of NO synthase, but not of induction of L-arginine transport, in activated murine macrophage J774 cells, 110, 1401
- Magnesium**, Effects of prolonged application of isoprenaline on intracellular free magnesium concentration in isolated heart of rat, 109, 443
- Evidence that a form of ATP uncomplexed with divalent cations is the ligand of P<sub>2y</sub> and nucleotide/P<sub>2u</sub> receptors on aortic endothelial cells, 109, 967
  - Mg<sup>2+</sup> and caffeine-induced intracellular Ca<sup>2+</sup> release in human vascular endothelial cells, 109, 291
- Maitotoxin**, Ca<sup>2+</sup>-dependent aggregation of rabbit platelets induced by maitotoxin, a potent marine toxin, isolated from a dinoflagellate, 109, 29
- Mandevilla velutina compounds**, Evidence for participation of B<sub>1</sub> and B<sub>2</sub> kinin receptors in formalin-induced nociceptive response in the mouse, 110, 193
- Manganese influx**, The superficial buffer barrier in venous smooth muscle: sarcoplasmic reticulum refilling and unloading, 109, 336
- Marmosets**, Pharmacological profile of valsartan: a potent, orally active, nonpeptide antagonist of the angiotensin II AT<sub>1</sub>-receptor subtype, 110, 761
- Mast cells**, Activation of the Na<sup>+</sup>/K<sup>+</sup>-pump in rat peritoneal mast cells following histamine release: a possible role in cell recovery, 108, 120
- Mathematical models**, Kinetics of rate-dependent slowing of intraventricular conduction by the class Ib antiarrhythmic agent tocanide *in vivo*, 110, 145
- Matrix metalloproteinase**, Stimulated eosinophils and proteinases augment the transepithelial flux of albumin in bovine bronchial mucosa, 110, 840
- MDL72222**, Effects of cholinergic and 5-hydroxytryptamine, receptor antagonism on erythromycin-induced canine intestinal motility disruption and emesis, 108, 44
- Mechanosensitive channels**, Ionic effects on amiloride block of the mechanosensitive channel in *Xenopus* oocytes, 108, 116
- Megakaryocyte, rat**, Existence of rolipram-sensitive phosphodiesterase in rat megakaryocyte, 109, 1020
- Melanophore**, Cloning and expression of a fish  $\alpha_2$ -adrenoceptor, 110, 54
- Melittin**, Influence of epithelium on the inhibition of melittin-induced contraction of guinea-pig isolated trachea by the potassium channel opener NIP-121, 109, 1091
- Membrane currents**, Membrane current responses to externally-applied ATP in the longitudinal muscle of the chicken rectum, 110, 87
- Membrane potential**, Differential effects of acetylcholine, nitric oxide and levromakalim on smooth muscle membrane potential and tone in the rabbit basilar artery, 110, 651
- Effects of the central analgesic tramadol and its main metabolite, O-desmethyiltramadol, on rat locus coeruleus neurones, 110, 169
  - Modification by charybdotoxin and apamin of spontaneous electrical and mechanical activity of the circular smooth muscle of the guinea-pig stomach, 109, 661
- Membrane transport**, Enteral absorption of octreotide: absorption enhancement by polyoxyethylene-24-cholesterol ether, 108, 298
- Mepyramine**, Endothelin-induced contraction and mediator release in human bronchus, 110, 392
- Relative contributions of direct and indirect mechanisms mediating endothelin-induced contraction of guinea-pig trachea, 110, 955
- MEQ fluorescence**, Kinin-induced chloride permeability changes in colony 29 epithelia estimated from <sup>125</sup>I<sup>-</sup> efflux and MEQ fluorescence, 108, 469
- Mesangial cell, rat**, Effect of extracellular ATP on contraction, cytosolic calcium activity, membrane voltage and ion currents of rat mesangial cells in primary culture, 109, 953
- Mesenteric vasculatures**, Characterization of receptors for endothelins in the perfused arterial and venous mesenteric vasculatures of the rat, 110, 687
- Methacholine**, Differential inhibition by N<sup>G</sup>-monomethyl-L-arginine of vasodilator effects of acetylcholine and methacholine in human forearm vasculature, 110, 736
- Methamphetamine**, Striatal dopamine release *in vivo* following neurotoxic doses of methamphetamine and effect of the neuroprotective drugs, chlormethiazole and dizocilpine, 108, 590
- N-Methyl-D-aspartate**, Selective reduction of N-methyl-D-aspartate-evoked responses by 1,3-di(2-tolyl)guanidine in mouse and rat cultured hippocampal pyramidal neurones, 109, 1196
- Whole cell and single channel analysis of the kinetics of glycine-sensitive N-methyl-D-aspartate receptor desensitization, 109, 213
- N-Methyl-D-aspartate receptors**, Postnatal changes in N-methyl-D-

- aspartate receptor binding and stimulation by glutamate and glycine of [<sup>3</sup>H]-MK-801 binding in human temporal cortex, 108, 1143
- 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MTPT)**, Selective MPP<sup>+</sup> uptake into synaptic dopamine vesicles: possible involvement in MPTP neurotoxicity, 109, 411
- 1-Methyl-4-phenylpyridinium ion (MPP<sup>+</sup>) uptake**, Selective MPP<sup>+</sup> uptake into synaptic dopamine vesicles: possible involvement in MPTP neurotoxicity, 109, 411
- 5-Methyl-urapidil**, Investigation of the subtypes of  $\alpha_1$ -adrenoceptor mediating contractions of rat aorta, vas deferens and spleen, 109, 80
- 2-Methyl-5-HT**, Functional characterization of a 5-HT<sub>3</sub> receptor which modulates the release of 5-HT in the guinea-pig brain, 108, 13
- $\alpha$ -Methyl-5-HT**, Bronchodilatation of guinea-pig perfused bronchioles induced by the H<sub>3</sub>-receptor for histamine: role of epithelium, 109, 960
- Characterization of the 5-hydroxytryptamine receptor mediating the positive inotropic response in guinea-pig isolated left atria, 109, 1192
  - Production by *R*- $\alpha$ -methylhistamine of a histamine H<sub>3</sub> receptor-mediated decrease in basal vascular resistance in guinea-pigs, 110, 553
- $\alpha,\beta$ -Methylene-ATP**, Dual contractile effects of ATP released by field stimulation revealed by effects of  $\alpha,\beta$ -methylene ATP and suramin in rat tail artery, 110, 1421
- The effects of ATP and  $\alpha,\beta$ -methylene-ATP on cytosolic Ca<sup>2+</sup> level and force in rat isolated aorta, 110, 263
  - Functional importance of cholinergic and purinergic neurotransmission for micturition contraction in the normal, unanaesthetized rat, 109, 473
  - PPADS selectively antagonizes P<sub>2X</sub>-purinoceptor-mediated responses in the rabbit urinary bladder, 110, 1491
- [<sup>3</sup>H]- $\alpha,\beta$ -Methylene-ATP**, PPADS selectively antagonizes P<sub>2X</sub>-purinoceptor-mediated responses in the rabbit urinary bladder, 110, 1491
- $\beta,\gamma$ -Methylene-ATP**, Prejunctional modulation of noradrenaline release in mouse and rat vas deferens: contribution of P<sub>1</sub>- and P<sub>2</sub>-purinoceptors, 110, 1465
- Methylene blue**, Acetylcholine-induced endothelium-independent relaxations in monkey isolated superior and inferior caval veins, 109, 992
- L-Arginine exerts a dual role in nociceptive processing in the brain: involvement of the kyotorphin-Met-enkephalin pathway and NO-cyclic GMP pathway, 109, 73
  - Endothelin-1 in the rabbit: interactions with cyclo-oxygenase and NO-synthase products, 108, 838
  - Evidence against vasoactive intestinal polypeptide as the relaxant neurotransmitter in human cavernosal smooth muscle, 108, 497
  - Involvement of nitric oxide in the endothelium-dependent relaxation induced by hydrogen peroxide in the rabbit aorta, 110, 151
  - Regulation of NANC neural bronchoconstriction *in vivo* in the guinea-pig: involvement of nitric oxide, 108, 228
- 3,4-Methylenedioxymethamphetamine**, 5-HT loss in rat brain following 3,4-methylenedioxymethamphetamine (MDMA), *p*-chloroamphetamine and fenfluramine administration and effects of chlormethiazole and dizocilpine, 108, 583
- Methylprednisolone**, Immediate inhibitory effect of methylprednisolone suleptanate (U-67590A) on antigen-induced cutaneous and airway anaphylactic responses in guinea-pigs, 108, 604
- 2-Methylthioadenosine 5'-triphosphate (2MeSATP)**, Evidence that a form of ATP uncomplexed with divalent cations is the ligand of P<sub>2Y</sub> and nucleotide/P<sub>2U</sub> receptors on aortic endothelial cells, 109, 967
- Methylxanthines**, Caffeine and related compounds block inhibitory amino acid-gated Cl<sup>-</sup> currents in freshly dissociated rat hippocampal neurones, 109, 459
- Characterization of the adenosine receptors of the rat superior cervical ganglion, 110, 854
- Metoclopramide**, Effects of cholinergic and 5-hydroxytryptamine<sub>2</sub> receptor antagonism on erythromycin-induced canine intestinal motility disruption and emesis, 108, 44
- Metrifudil**, Functional characterization of three adenosine receptor types, 109, 693
- Metyrapone**, Conversion of glyceryl trinitrate to nitric oxide in tolerant and non-tolerant smooth muscle and endothelial cells, 108, 162
- Mexiletine**, Effects of hyperkalaemia on the depression of maximum rate of depolarization by class I antiarrhythmic agents in guinea-pig myocardium, 108, 255
- Use-dependent block of Na<sup>+</sup> currents by mexiletine at the single channel level in guinea-pig ventricular myocytes, 110, 183
- Microangiography**, Hypercholesterolaemia severely impairs EDRF-dependent collateral perfusion following acute arterial occlusion in rabbit isolated ear, 109, 838
- Microcirculation**, Effects of hydroxyethylrutosides on the permeability of microvessels in the frog mesentery, 110, 199
- Neuronal and endothelium-derived mediators in the modulation of the gastric microcirculation: integrity in the balance, 110, 3
- Microdialysis**, Glycine stimulates striatal dopamine release in conscious rats, 110, 50
- In vivo* microdialysis of noradrenaline overflow: effects of  $\alpha$ -adrenoceptor agonists and antagonists measured by cumulative concentration-response curves, 109, 655
  - In vivo* release of dopamine from rat striatum, substantia nigra and prefrontal cortex: differential modulation by baclofen, 109, 814
  - The novel 5-HT<sub>1A</sub> receptor antagonist, SDZ 216-525, decreases 5-HT release in rat hippocampus *in vivo*, 109, 699
  - Striatal dopamine release *in vivo* following neurotoxic doses of methamphetamine and effect of the neuroprotective drugs, chlormethiazole and dizocilpine, 108, 590
  - The profiles of interaction of yohimbine with anxiolytic and putative anxiolytic agents to modify 5-HT release in the frontal cortex of freely-moving rats, 110, 1079
- Microvascular leak**, Protection by oestradiol against the development of cardiovascular changes associated with monocrotaline pulmonary hypertension in rats, 110, 719
- Microvascular permeability**, Effects of hydroxyethylrutosides on the permeability of microvessels in the frog mesentery, 110, 199
- Micturition**, Capsaicin-induced relaxation in the rat isolated external urethral sphincter: characterization of the vanilloid receptor and mediation by CGRP, 110, 989
- Effects of morphine metabolites on micturition in normal, unanaesthetized rats, 110, 257
  - Functional importance of cholinergic and purinergic neurotransmission for micturition contraction in the normal, unanaesthetized rat, 109, 473
- Micturition reflex**, Effects of LY274614, a competitive NMDA receptor antagonist, on the micturition reflex in the urethane-anesthetized rat, 110, 77
- Migraine**, Effects of sumatriptan on the cerebral intraparenchymal microcirculation in the cat, 110, 1445
- Inhibition by sumatriptan of central trigeminal neurones only after blood-brain barrier disruption, 109, 788
  - The non-peptide neurokinin<sub>1</sub> receptor antagonist, RP 67580, blocks neurogenic plasma extravasation in the dura mater of rats, 108, 11
  - Time-dependent blockade of neurogenic plasma extravasation in dura mater by 5-HT<sub>1B/D</sub> agonists and endopeptidase 24.11, 108, 331
- Milacemide**, Antiepileptic drug pharmacokinetics and neuropharmacokinetics in individual rats by repetitive withdrawal of blood and cerebrospinal fluid: milacemide, 108, 1117
- Mineralocorticoid-salt hypertension**, Effects of high calcium diet on arterial smooth muscle function and electrolyte balance in mineralocorticoid-salt hypertensive rats, 108, 948
- Mineralocorticoids**, Chronic kinin receptor blockade induces hypertension in deoxycorticosterone-treated rats, 108, 651
- Miniature endplate currents**, Necessity of divalent cations for recovery from carbachol-induced nicotinic acetylcholine receptor inactivation at snake twitch fibre endplates, 110, 889
- Minoxidil sulphate**, Effects of rubidium on responses to potassium channel openers in rat isolated aorta, 109, 925
- MK-1**, Pharmacology of a cloned potassium channel from mouse brain (MK-1) expressed in CHO cells: effects of blockers and an 'inactivation peptide', 109, 725
- [<sup>3</sup>H]-(+)-MK-801**, Inhibition of [<sup>3</sup>H]-(+)-MK 801 binding to rat brain sections by CPP and 7-chlorokynurenic acid: an autoradiographic analysis, 108, 577
- [<sup>3</sup>H]-MK-801 binding**, Postnatal changes in *N*-methyl-D-aspartate receptor binding and stimulation by glutamate and glycine of [<sup>3</sup>H]-MK-801 binding in human temporal cortex, 108, 1143
- MK-866**, Formation of sulphidopeptide-leukotrienes by cell-cell interaction causes coronary vasoconstriction in isolated, cell-perfused heart of rabbit, 110, 1206
- Role of leukotrienes in airway hyperresponsiveness in guinea-pigs, 108, 700
- Monoamine oxidase**, [<sup>3</sup>H]-Idazoxan binding to rabbit cerebral cortex recognises multiple imidazoline I<sub>2</sub>-type receptors: pharmacological characterization and relationship to monoamine oxidase, 109, 625

- Antiepileptic drug pharmacokinetics and neuropharmacokinetics in individual rats by repetitive withdrawal of blood and cerebrospinal fluid: milacemide, **108, 1117**
- Monoamine oxidase inhibitors**, Chronic treatment with the monoamine oxidase inhibitors clorgyline and pargyline down-regulates non-adrenoceptor [<sup>3</sup>H]-idazoxan binding sites in the rat brain, **108, 597**
- Monocrotaline**, Effects of atrial natriuretic peptide and nitroprusside on isolated pulmonary resistance and conduit arteries from rats with pulmonary hypertension, **110, 1363**
- Monocrotaline pyrrole-induced changes in angiotensin-converting enzyme activity of cultured pulmonary artery endothelial cells, **110, 597**
- Protection by oestradiol against the development of cardiovascular changes associated with monocrotaline pulmonary hypertension in rats, **110, 719**
- Monocytes**, A factor released by monocytes in the presence of dexamethasone stimulates neutrophil locomotion, **108, 248**
- N<sup>G</sup>-Monomethyl-L-arginine (L-NMMA)**, Actions and interactions of N<sup>G</sup>-substituted analogues of L-arginine on NANC neurotransmission in the bovine retractor penis and rat anococcygeus muscles, **108, 242**
- Differential inhibition by N<sup>G</sup>-monomethyl-L-arginine of vasodilator effects of acetylcholine and methacholine in human forearm vasculature, **110, 736**
- Effects of L- and D-arginine and some related esters on the cytosolic mechanisms of  $\alpha$ -thrombin-induced human platelet activation, **110, 213**
- Endothelin-1 in the rabbit: interactions with cyclo-oxygenase and NO-synthase products, **108, 838**
- Induction by endotoxin of nitric oxide synthase in the rat mesentery: lack of effect on action of vasoconstrictors, **109, 265**
- The induction of nitric oxide synthase and intestinal vascular permeability by endotoxin in the rat, **110, 1189**
- Inhibitors of nitric oxide synthetase prevent castor-oil-induced diarrhoea in the rat, **108, 861**
- Modulation by nitric oxide of platelet-activating factor-induced albumin extravasation in the conscious rat, **110, 1347**
- Nitric oxide is involved in the regulation of angiogenesis, **108, 855**
- Vascular responses to endothelin-1 following inhibition of nitric oxide synthesis in the conscious rat, **110, 1213**
- Selective inhibition of basal but not agonist-stimulated activity of nitric oxide in rat aorta by N<sup>G</sup>-monomethyl-L-arginine, **110, 1003**
- Monosynaptic excitation**, A novel metabotropic glutamate receptor agonist: marked depression of monosynaptic excitation in the newborn rat isolated spinal cord, **109, 1169**
- Moricizine**, Use-dependent block of Ca<sup>2+</sup> current by moricizine in guinea-pig ventricular myocytes: a possible ionic mechanism of action potential shortening, **108, 812**
- Morphine**, 5-HT<sub>1</sub> antagonists reduce morphine self-administration in rats, **110, 1341**
- Cholecystokinin as a factor in the enhanced potency of spinal morphine following carrageenin inflammation, **108, 967**
- Effect of opioid receptor subtype-selective agonists on purinergic and adrenergic components of neurogenic contractions of mouse vas deferens, **108, 443**
- Effects of the  $\kappa$ -opioid agonist U50,488 on parturition in rats, **109, 251**
- Effects of morphine metabolites on micturition in normal, unanaesthetized rats, **110, 257**
- Evidence for functional dissociation of dependence and tolerance in guinea-pig isolated ileal segments following 20 hour exposure to morphine *in vitro*, **110, 1522**
- Withdrawal contractures of guinea-pig isolated ileum after acute activation of  $\kappa$ -opioid receptors, **109, 48**
- Morphine-3-glucuronide**, Effects of morphine metabolites on micturition in normal, unanaesthetized rats, **110, 257**
- Morphine-6-glucuronide**, Effects of morphine metabolites on micturition in normal, unanaesthetized rats, **110, 257**
- Motilin**, The Leu<sup>13</sup>-motilin (KW-5139)-evoked release of acetylcholine from enteric neurones in the rabbit duodenum, **109, 94**
- Motoneurones**, A comparison of the actions of agonists and antagonists at non-NMDA receptors of C fibres and motoneurones of the immature rat spinal cord *in vitro*, **108, 179**
- Motor function**, Attenuation of reperfusion hyperalgesia in the rat by systemic administration of benzodiazepines, **110, 1067**
- Moxonidine**, *In vivo* microdialysis of noradrenaline overflow: effects of  $\alpha$ -adrenoceptor agonists and antagonists measured by cumulative concentration-response curves, **109, 655**
- Renal imidazoline preferring sites and solute excretion in the rat, **108, 870**
- mRNA expression**, Evidence for a functional  $\beta_3$ -adrenoceptor in man, **110, 929**
- MS-551**, Effects of MS-551, a new class III antiarrhythmic drug, on action potential and membrane currents in rabbit ventricular myocytes, **109, 157**
- Mucosa, airways**, Stimulated eosinophils and proteinases augment the transepithelial flux of albumin in bovine bronchial mucosa, **110, 840**
- Mucosal blood flow**, The paradoxical vascular interactions between endothelin-1 and calcitonin gene-related peptide in the rat gastric mucosal microcirculation, **110, 496**
- Muscarinic actions**, Modulation of acetylcholine-induced contractions of the rat anococcygeus muscle by activation of nitrergic nerves, **110, 1479**
- Muscarinic receptors**, Acetylcholine-induced endothelium-independent relaxations in monkey isolated superior and inferior caval veins, **109, 992**
- Different muscarinic receptor subtypes mediating the phasic activity and basal tone of pig isolated intravesical ureter, **110, 1413**
- Differential changes of adrenoceptor- and muscarinic receptor-linked prostacyclin synthesis by the aorta and urinary bladder of the diabetic rat, **108, 1131**
- Effects of excitatory neurotransmitters on Ca<sup>2+</sup> channel current in smooth muscle cells isolated from guinea-pig urinary bladder, **110, 317**
- Estimation of partial agonist affinity by interaction with a full agonist: a direct operational model-fitting approach, **110, 239**
- Functional characterization of muscarinic receptors in murine airways, **109, 53**
- Heterogeneity of muscarinic receptors in lamb isolated coronary resistance arteries, **109, 998**
- Interaction of selective compounds with muscarinic receptors at dispersed intestinal smooth muscle cells, **108, 393**
- Muscarinic regulation of cytosolic free calcium in canine tracheal smooth muscle cells: Ca<sup>2+</sup> requirement for phospholipase C activation, **110, 1239**
- Novel regulation of muscarinic receptors and their coupling with G proteins in smooth muscle: transient resensitization during desensitizing process, **109, 330**
- Protein kinase regulation of muscarinic receptor signalling in colonic smooth muscle, **108, 613**
- The effects of cholinergic agonists and antagonists on C-fibre evoked responses in the substantia gelatinosa of neonatal rat spinal cord slices, **110, 1061**
- Muscarinic receptor agonists**, Mediation by the same muscarinic receptor subtype of phasic and tonic contractile activities in the rat isolated portal vein, **108, 132**
- Muscarinic regulation of cytosolic free calcium in canine tracheal smooth muscle cells: Ca<sup>2+</sup> requirement for phospholipase C activation, **110, 1239**
- Muscarinic receptor antagonists**, Functional characterization of muscarinic receptors in murine airways, **109, 53**
- Mediation by the same muscarinic receptor subtype of phasic and tonic contractile activities in the rat isolated portal vein, **108, 132**
- The thermodynamics of antagonist binding to rat muscarinic M<sub>2</sub> receptors: antimuscarinics of the pridinol, sila-pridinol, diphenidol and sila-diphenidol type, **109, 360**
- Muscarinic receptor subtypes**, Different muscarinic receptor subtypes mediating the phasic activity and basal tone of pig isolated intravesical ureter, **110, 1413**
- Estimation of competitive antagonist affinity from functional inhibition curves using the Gaddum, Schild and Cheng-Prusoff equations, **109, 1110**
- Functional characterization of muscarinic receptors in murine airways, **109, 53**
- Heterogeneity of muscarinic receptors in lamb isolated coronary resistance arteries, **109, 998**
- Mediation by the same muscarinic receptor subtype of phasic and tonic contractile activities in the rat isolated portal vein, **108, 132**
- Muscarinic excitatory and inhibitory mechanisms involved in afferent fibre-evoked depolarization of motoneurones in the neonatal rat spinal cord, **110, 61**
- Pharmacological characterization of acetylcholine-stimulated [<sup>35</sup>S]-GTP $\gamma$ S binding mediated by human muscarinic m1-m4 receptors:

- antagonist studies, 109, 1120
- Selective inactivation of muscarinic  $M_2$  and  $M_3$  receptors in guinea-pig ileum and atria *in vitro*, 109, 946
- Muscarinic  $M_1$  receptors**, Evidence that  $M_1$  muscarinic receptors enhance noradrenaline release in mouse atria by activating protein kinase C, 110, 910
- Muscarinic  $M_1$  receptor agonists**, Interaction of selective compounds with muscarinic receptors at dispersed intestinal smooth muscle cells, 108, 393
- Muscarinic  $M_1$  receptor antagonists**, Interaction of selective compounds with muscarinic receptors at dispersed intestinal smooth muscle cells, 108, 393
- Muscarinic  $M_2$  receptors**, The thermodynamics of antagonist binding to rat muscarinic  $M_2$  receptors: antimuscarinics of the pridinol, sila-pridinol, diphenidol and sila-diphenidol type, 109, 360
- Muscarinic  $M_2$  receptor antagonists**, Interaction of selective compounds with muscarinic receptors at dispersed intestinal smooth muscle cells, 108, 393
- Muscarinic  $M_3$  receptor antagonists**, Interaction of selective compounds with muscarinic receptors at dispersed intestinal smooth muscle cells, 108, 393
- Muscimol**, Counteraction of the rapid tolerance to 8-OH-DPAT-induced corticosterone secretion in rats by activation of the GABA<sub>A</sub> receptor-chloride channel complex, 109, 207
- Muscle contraction**, Mechanism of carbachol-evoked contractions of guinea-pig ileal smooth muscle close to freezing point, 109, 1029
- Transmitter-mediated local contracture of the endplate region of the focally innervated mouse diaphragm treated with anticholinesterase, 109, 1178
- Muscle, skeletal**, Ion channel blockade by oximes and recovery of diaphragm muscle from soman poisoning *in vitro*, 108, 1006
- Muscle, striated**, Effect of adrenoceptor agonists on striated muscle strips of the canine oesophagus, 110, 297
- Muscularis mucosae**, The  $\beta$ -adrenoceptors mediating relaxation of rat oesophageal muscularis mucosae are predominantly of the  $\beta_2$ -, but also of the  $\beta_1$ -subtype, 110, 442
- Myenteric plexus**, The Leu<sup>13</sup>-motilin (KW-5139)-evoked release of acetylcholine from enteric neurones in the rabbit duodenum, 109, 94
- Localization and characterization of neuropeptide Y binding sites in porcine and human colon, 108, 304
- Myocardial blood flow**, Comparison of the effects of EXP3174, an angiotensin II antagonist and enalaprilat on myocardial infarct size in anaesthetized dogs, 110, 969
- Myocardial contraction**, Time-related increases in cardiac concentrations of doxorubicinol could interact with doxorubicin to depress myocardial contractile function, 110, 975
- Myocardial fibres, canine**, Electropharmacological effects of berberine on canine cardiac Purkinje fibres and ventricular muscle and atrial muscle of the rabbit, 108, 534
- Myocardial infarction**, Dissociation of the anti-ischaemic effects of cloricromene from its anti-platelet activity, 110, 275
- Myocardial ischaemia**, The antiarrhythmic effects of the nucleoside transporter inhibitor, R75231, in anaesthetized pigs, 109, 592
- Prevention by an inhibitor of the L-arginine-nitric oxide pathway of the antiarrhythmic effects of bradykinin in anaesthetized dogs, 110, 18
  - Selective  $I_K$  blockade as an antiarrhythmic mechanism: effects of UK66,914 on ischaemia and reperfusion arrhythmias in rat and rabbit hearts, 108, 139
- Myocardial ischaemia-reperfusion**, Protective effects of bradykinin on the ischaemic heart: implication of the  $B_1$  receptor, 108, 318
- Myocardium**, Effects of hyperkalaemia on the depression of maximum rate of depolarization by class I antiarrhythmic agents in guinea-pig myocardium, 108, 255
- Possible action of cyclopiazonic acid on myocardial sarcoplasmic reticulum: inotropic effects on neonatal and adult rat heart, 108, 571
- Myocytes**, Differential effects of cocaine and cocaethylene on intracellular  $Ca^{2+}$  and myocardial contraction in cardiac myocytes, 109, 293
- Electrophysiological and antiarrhythmic actions of the  $\kappa$  agonist PD 129290, and its  $R,R(+)$ -enantiomer, PD 129289, 110, 1579
  - Mechanical and electrophysiological studies on the positive inotropic effect of 2-phenyl-4-oxo-hydroquinoline in rat cardiac tissues, 110, 310
- Myocytes, aortic**, 3,4 Dichlorobenzamil-sensitive, monovalent cation channel induced by palytoxin in cultured aortic myocytes, 109, 859
- Myocytes, embryonic**, Activation of protein kinase C potentiates postsynaptic acetylcholine response at developing neuromuscular synapses, 110, 707
- Myocytes, ventricular**, Cardiotonic actions of selective phosphodiesterase inhibitors in rat isolated ventricular cardiomyocytes, 110, 1387
- Use-dependent block of  $Na^+$  currents by mexiletine at the single channel level in guinea-pig ventricular myocytes, 110, 183
- Myofilament  $Ca^{2+}$ -responsiveness**, Differential effects of cocaine and cocaethylene on intracellular  $Ca^{2+}$  and myocardial contraction in cardiac myocytes, 109, 293
- Myointimal hyperplasia**, Protection by oestradiol against the development of cardiovascular changes associated with monocrotaline pulmonary hypertension in rats, 110, 719
- Myometrium, human**, *In vitro* characterization of prostanoid receptors on human myometrium at term pregnancy, 108, 501
- Pharmacological profile of valsartan: a potent, orally active, nonpeptide antagonist of the angiotensin II  $AT_1$ -receptor subtype, 110, 761
- Myosin light chain kinase**, Effects of calyculin A on tension and myosin phosphorylation in skinned smooth muscle of the rabbit mesenteric artery, 109, 703
- Myosin phosphatase**, Effects of calyculin A on tension and myosin phosphorylation in skinned smooth muscle of the rabbit mesenteric artery, 109, 703
- Myosin phosphorylation**, Effects of calyculin A on tension and myosin phosphorylation in skinned smooth muscle of the rabbit mesenteric artery, 109, 703
- Post-receptor pathway of the ATP-induced relaxation in smooth muscle of the mouse vas deferens, 110, 326
- Myotubes**, Activation of the phospholipase C pathway by ATP is mediated exclusively through nucleotide type  $P_2$ -purinoceptors in C2C12 myotubes, 110, 747
- Characterization of  $P_2$ -purinoceptor mediated cyclic AMP formation in mouse C2C12 myotubes, 110, 133

## N

- $Na^+/H^+$  antiporter activity**, Effects of L- and D-arginine and some related esters on the cytosolic mechanisms of  $\alpha$ -thrombin-induced human platelet activation, 110, 213
- $Na^+/H^+$  exchange**, Hoe 694, a new  $Na^+/H^+$  exchange inhibitor and its effects in cardiac ischaemia, 109, 562
- $Na^+/H^+$  exchange inhibitors reverse lactate-induced depression in postischaemic ventricular recovery, 108, 50
- $Na^+/K^+$ -pump**, Activation of the  $Na^+/K^+$ -pump in rat peritoneal mast cells following histamine release: a possible role in cell recovery, 108, 120
- NADPH diaphorase**, Nitric oxide synthase in pig lower urinary tract: immunohistochemistry, NADPH diaphorase histochemistry and functional effects, 110, 521
- Nafamostat mesilate**, Effect of nafamostat mesilate on  $Na^+$  and  $K^+$  transport properties in the rabbit cortical collecting duct, 109, 673
- Naloxone**, Effect of delayed weaning on opioid receptor control of swim stress-induced antinociception in the developing rat, 109, 651
- Effects of the  $\kappa$ -opioid agonist U50,488 on parturition in rats, 109, 251
  - Effects of morphine metabolites on micturition in normal, unanaesthetized rats, 110, 257
  - Evidence for functional dissociation of dependence and tolerance in guinea-pig isolated ileal segments following 20 hour exposure to morphine *in vitro*, 110, 1522
  - Functional evidence for multiple receptor activation by  $\kappa$ -ligands in the inhibition of spinal nociceptive reflexes in the rat, 110, 303
  - Withdrawal contractures of guinea-pig isolated ileum after acute activation of  $\kappa$ -opioid receptors, 109, 48
- Naltrindole**, Effect of delayed weaning on opioid receptor control of swim stress-induced antinociception in the developing rat, 109, 651
- D-NAME**, Nitric oxide-dependent and -independent hyperaemia due to calcitonin gene-related peptide in the rat stomach, 110, 404
- NAN-190**, The novel 5-HT<sub>1A</sub> receptor antagonist, SDZ 216-525, decreases 5-HT release in rat hippocampus *in vivo*, 109, 699
- 2-NAP**, 2-Naphthalenesulphonyl L-aspartyl-(2-phenethyl)amide (2-NAP)—a selective cholecystokinin CCK<sub>A</sub>-receptor antagonist, 108, 734
- Nasal airway, human**, The effect of platelet-activating factor on the responsiveness of the human nasal airway, 110, 113

- Natriuresis**, Effect of tienoxolol, a new diuretic  $\beta$ -blocking agent, on urinary prostaglandin excretion in the rat, 109, 278
- Renal imidazoline preferring sites and solute excretion in the rat, 108, 870
- Natriuretic hormones**, Effects of direct renal arterial infusion of bufalin and ouabain in conscious sheep, 108, 627
- Natriuretic peptides**, Effects of direct renal arterial infusion of bufalin and ouabain in conscious sheep, 108, 627
- Neocortex, human**, Release-regulating dopamine autoreceptors in human cerebral cortex, 110, 20
- Neonate**, Effect of delayed weaning on opioid receptor control of swim stress-induced antinociception in the developing rat, 109, 651
- Neonate, rat**, Possible action of cyclopiazonic acid on myocardial sarcoplasmic reticulum: inotropic effects on neonatal and adult rat heart, 108, 571
- Neostigmine**, Degradation of acetylcholine in human airways: role of butyrylcholinesterase, 108, 914
- Reversal by suramin of neuromuscular block produced by pancuronium in the anaesthetized rat, 108, 717
- Nerve conduction**, The effects of evening primrose oil on nerve function and capillarization in streptozotocin-diabetic rats: modulation by the cyclo-oxygenase inhibitor flurbiprofen, 109, 972
- Nerve conduction velocity**, Amelioration by the  $\text{Ca}^{2+}$  antagonist, nimodipine of an existing neuropathy in the streptozotocin-induced, diabetic rat, 108, 780
- Neural inhibition**, Nitric oxide affects mammalian distal colonic smooth muscle by tonic neural inhibition, 108, 974
- Neural regulation**, Non-adrenergic, non-cholinergic neural activation in guinea-pig bronchi: powerful and frequency-dependent stabilizing effect on tone, 109, 845
- Neural stimulation**, Sympathetic innervation and  $\alpha$ -adrenoceptor profile of blood vessels in the posterior region of the rabbit knee joint, 108, 79
- Neuroblastoma cell lines**, Salmeterol, a long-acting  $\beta_2$ -adrenoceptor agonist mediating cyclic AMP accumulation in a neuronal cell line, 110, 619
- N1E-115 neuroblastoma cells**, Characterization of 5-HT<sub>1</sub> receptors of N1E-115 neuroblastoma cells by use of the influx of the organic cation [<sup>14</sup>C]-guanidinium, 108, 436
- 5-Hydroxyindole slows desensitization of the 5-HT<sub>1</sub> receptor-mediated ion current in N1E-115 neuroblastoma cells, 108, 287
- Neurodegeneration**, 5-HT loss in rat brain following 3,4-methylenedioxymethamphetamine (MDMA), *p*-chloroamphetamine and fenfluramine administration and effects of chlormethiazole and dizocilpine, 108, 583
- Mediation of the neuroprotective action of *R*-phenylisopropyladenosine through a centrally located adenosine A<sub>1</sub> receptor, 110, 470
- Neurokinins**, Effects of interactions of naturally-occurring neuropeptides on blood flow in the rat knee joint, 108, 694
- The interaction of the NK<sub>1</sub> receptor antagonist CP-96,345 with L-type calcium channels and its functional consequences, 110, 385
  - Tachykinin receptors mediating responses to sensory nerve stimulation and exogenous tachykinins and analogues in the rabbit isolated iris sphincter, 109, 1008
- Neurokinin A**, Attenuation of tachykinin-induced airflow obstruction and microvascular leakage in immature airways, 108, 23
- Effect of passive sensitization on the mechanical activity of human isolated bronchial smooth muscle induced by substance P, neurokinin A and VIP, 109, 131
  - Effects of interactions of naturally-occurring neuropeptides on blood flow in the rat knee joint, 108, 694
  - Effects of ruthenium red and capsazepine on C-fibres in the rabbit iris, 110, 1073
  - Inhibition of nitric oxide synthesis reveals non-cholinergic excitatory neurotransmission in the canine proximal colon, 109, 739
  - NK<sub>2</sub> receptors mediate plasma extravasation in guinea-pig lower airways, 108, 383
  - Postjunctional inhibitory effect of the NK<sub>2</sub> receptor antagonist, SR 48968, on sensory NANC bronchoconstriction in the guinea-pig, 109, 765
  - Profile of capsaicin-induced mouse ear oedema as neurogenic inflammatory model: comparison with arachidonic acid-induced ear oedema, 110, 1614
- Neurokinin B**, Effects of interactions of naturally-occurring neuropeptides on blood flow in the rat knee joint, 108, 694
- Neurokinin receptors**, Effect of a calcitonin gene-related peptide antagonist (CGRP<sub>8-37</sub>) on skin vasodilatation and oedema induced by stimulation of the rat saphenous nerve, 110, 772
- Identification of both NK<sub>1</sub> and NK<sub>2</sub> receptors in guinea-pig airways, 110, 693
  - Neurokinin-induced changes in pial artery diameter in the anaesthetized guinea-pig, 108, 146
- Neurokinin NK<sub>1</sub> receptor antagonists**, Antinociceptive activity of NK<sub>1</sub> receptor antagonists: non-specific effects of racemic RP67580, 110, 1607
- Effect of RP 67580, a non-peptide neurokinin<sub>1</sub> receptor antagonist, on facilitation of a nociceptive spinal flexion reflex in the rat, 109, 713
  - The interaction of the NK<sub>1</sub> receptor antagonist CP-96,345 with L-type calcium channels and its functional consequences, 110, 385
  - A non-peptide NK<sub>1</sub>-receptor antagonist, RP 67580, inhibits neurogenic inflammation postsynaptically, 109, 259
  - Stimulation of angiogenesis by substance P and interleukin-1 in the rat and its inhibition by NK<sub>1</sub> or interleukin-1 receptor antagonists, 110, 43
  - Tachykinin receptors mediating responses to sensory nerve stimulation and exogenous tachykinins and analogues in the rabbit isolated iris sphincter, 109, 1008
- Neurokinin NK<sub>1</sub> receptors**, A non-peptide NK<sub>1</sub>-receptor antagonist, RP 67580, inhibits neurogenic inflammation postsynaptically, 109, 259
- Tachykinin NK<sub>1</sub> but not NK<sub>2</sub> receptors mediate non-cholinergic excitatory junction potentials in the circular muscle of guinea-pig colon, 110, 795
- Neurokinin NK<sub>2</sub> receptor agonists**, NK<sub>2</sub> receptors mediate plasma extravasation in guinea-pig lower airways, 108, 383
- Neurokinin NK<sub>2</sub> receptor antagonists**, Postjunctional inhibitory effect of the NK<sub>2</sub> receptor antagonist, SR 48968, on sensory NANC bronchoconstriction in the guinea-pig, 109, 765
- Neurokinin receptor agonists**, Neurokinin-induced changes in pial artery diameter in the anaesthetized guinea-pig, 108, 146
- Neurokinin receptor antagonists**, Neurokinin-induced changes in pial artery diameter in the anaesthetized guinea-pig, 108, 146
- Tachykinin NK<sub>1</sub> but not NK<sub>2</sub> receptors mediate non-cholinergic excitatory junction potentials in the circular muscle of guinea-pig colon, 110, 795
- Neuroleptics**, Differential inhibition of a transient K<sup>+</sup> current by chlorpromazine and 4-aminopyridine in neurones of the rat dorsal root ganglia, 109, 1239
- Neuromodulation**, Adenosine receptor-mediated modulation of acetylcholine release from rat striatal synaptosomes, 110, 949
- Modulation of cholinergic and substance P-like neurotransmission by nitric oxide in the guinea-pig ileum, 110, 833
- Neuromuscular blockade**, Reversal by suramin of neuromuscular block produced by pancuronium in the anaesthetized rat, 108, 717
- Neuromuscular junction, frog**, Ionomycin-induced acetylcholine release and its inhibition by adenosine at frog motor nerve endings, 110, 828
- Neuromuscular junctions**, Enhancement by calcitonin gene-related peptide of nicotinic receptor-operated noncontractile Ca<sup>2+</sup> mobilization at the mouse neuromuscular junction, 110, 639
- Ion channel blockade by oximes and recovery of diaphragm muscle from soman poisoning *in vitro*, 108, 1006
  - Mechanism of staurosporine-induced decrease in acetylcholine receptor recovery from desensitization, 108, 741
  - Structural features important for the biological activity of the potassium channel blocking dendrotoxins, 110, 790
  - Transmitter-mediated local contracture of the endplate region of the focally innervated mouse diaphragm treated with anticholinesterase, 109, 1178
- Neuromuscular transmission**, Inhibition of nitric oxide synthesis reveals non-cholinergic excitatory neurotransmission in the canine proximal colon, 109, 739
- Neuronal culture**, Block of voltage-dependent sodium currents by the substance P receptor antagonist ( $\pm$ )-CP-96,345 in neurones cultured from rat cortex, 109, 918
- Neurones**, Pharmacology of a cloned potassium channel from mouse brain (MK-1) expressed in CHO cells: effects of blockers and an 'inactivation peptide', 109, 725
- Neurones, cerebellar**, Thiocyanate ions selectively antagonize AMPA-evoked responses in *Xenopus laevis* oocytes microinjected with rat brain mRNA, 109, 779
- Neurones, cultured**, Differential inhibition of a transient K<sup>+</sup> current by

- chlorpromazine and 4-aminopyridine in neurones of the rat dorsal root ganglia, **109, 1239**
- Effects of pH on the actions of dizocilpine at the *N*-methyl-D-aspartate receptor complex, **109, 107**
  - Excitatory amino acid receptor-stimulated phosphoinositide turnover in primary cerebrocortical cultures, **109, 379**
- Neurones, dissociated**, Caffeine and related compounds block inhibitory amino acid-gated  $Cl^-$  currents in freshly dissociated rat hippocampal neurones, **109, 459**
- Neurones, trigeminal**, Inhibition by sumatriptan of central trigeminal neurones only after blood-brain barrier disruption, **109, 788**
- Neuropathy**, Amelioration by the  $Ca^{2+}$  antagonist, nimodipine of an existing neuropathy in the streptozotocin-induced, diabetic rat, **108, 780**
- The effects of evening primrose oil on nerve function and capillarization in streptozotocin-diabetic rats: modulation by the cyclo-oxygenase inhibitor flurbiprofen, **109, 972**
- Neuropeptides**, Capsaicin-induced relaxation in the rat isolated external urethral sphincter: characterization of the vanilloid receptor and mediation by CGRP, **110, 989**
- Effects of interactions of naturally-occurring neuropeptides on blood flow in the rat knee joint, **108, 694**
- Neuropeptide Y**, Antagonism of the inhibitory action of neuropeptide Y (NPY) in guinea-pig trachea by the C-terminal fragment NPY (2-36), **109, 902**
- Localization and characterization of neuropeptide Y binding sites in porcine and human colon, **108, 304**
  - Neuronal and endothelium-derived mediators in the modulation of the gastric microcirculation: integrity in the balance, **110, 3**
  - Vasoconstrictor effects of various neuropeptide Y analogues on the rat tail artery in the presence of phenylephrine, **110, 1098**
- Neuropeptide Y(2-36)**, Antagonism of the inhibitory action of neuropeptide Y (NPY) in guinea-pig trachea by the C-terminal fragment NPY (2-36), **109, 902**
- Neuropeptide Y receptors**, Vasoconstrictor effects of various neuropeptide Y analogues on the rat tail artery in the presence of phenylephrine, **110, 1098**
- Neuropeptide Y receptor antagonism**, Antagonism of the inhibitory action of neuropeptide Y (NPY) in guinea-pig trachea by the C-terminal fragment NPY (2-36), **109, 902**
- Neuroprotection**, Inhibition by the adenosine analogue, (*R*)-*N*<sup>6</sup>-phenylisopropyladenosine, of kainic acid neurotoxicity in rat hippocampus after systemic administration, **109, 316**
- Lack of effect of L-687,414 ((+)-*cis*-4-methyl-HA-966), an NMDA receptor antagonist acting at the glycine site, on cerebral glucose metabolism and cortical neuronal morphology, **110, 36**
  - Mediation of the neuroprotective action of *R*-phenylisopropyladenosine through a centrally located adenosine  $A_1$  receptor, **110, 470**
- Neurotoxicity**, 5-HT loss in rat brain following 3,4-methylenedioxymethamphetamine (MDMA), *p*-chloroamphetamine and fenfluramine administration and effects of chlormethiazole and dizocilpine, **108, 583**
- Selective MPP<sup>+</sup> uptake into synaptic dopamine vesicles: possible involvement in MPTP neurotoxicity, **109, 411**
  - Striatal dopamine release *in vivo* following neurotoxic doses of methamphetamine and effect of the neuroprotective drugs, chlormethiazole and dizocilpine, **108, 590**
- Neurotoxin**, Structural features important for the biological activity of the potassium channel blocking dendrotoxins, **110, 790**
- Neutral endopeptidase**, Attenuation of tachykinin-induced airflow obstruction and microvascular leakage in immature airways, **108, 23**
- Relative contributions of direct and indirect mechanisms mediating endothelin-induced contraction of guinea-pig trachea, **110, 955**
- Neutral endopeptidase inhibitors**, Metabolism of endothelin-1 and big endothelin-1 by recombinant neutral endopeptidase EC.3.4.24.11, **109, 1024**
- Neutrophils**, Characterization of the inhibitory prostanoid receptors on human neutrophils, **108, 1051**
- Comparison of the anti-inflammatory properties of formoterol, salbutamol and salmeterol in guinea-pig skin and lung, **110, 613**
  - E-type prostaglandins enhance local oedema formation and neutrophil accumulation but suppress eosinophil accumulation in guinea-pig skin, **110, 416**
  - Effect of activation on adhesion of flowing neutrophils to cultured endothelium: time course and inhibition by a calcium channel blocker (nitrendipine), **110, 1630**
- A factor released by monocytes in the presence of dexamethasone stimulates neutrophil locomotion, **108, 248**
  - Formation of sulphidopeptide-leukotrienes by cell-cell interaction causes coronary vasoconstriction in isolated, cell-perfused heart of rabbit, **110, 1206**
  - Role of prostaglandins and nitric oxide in acute inflammatory reactions in guinea-pig skin, **110, 1515**
  - Specific inhibition of leukotriene  $B_4$  (LTB<sub>4</sub>)-induced neutrophil emigration by 20-hydroxy LTB<sub>4</sub>: implications for the regulation of inflammatory responses, **110, 423**
- Neutrophil accumulation**, Effect of dexamethasone on neutrophil accumulation and oedema formation in rabbit skin: an investigation of site of action, **108, 959**
- Neutrophil adhesion**, A factor released by monocytes in the presence of dexamethasone stimulates neutrophil locomotion, **108, 248**
- Neutrophil locomotion**, A factor released by monocytes in the presence of dexamethasone stimulates neutrophil locomotion, **108, 248**
- Neutrophil recruitment inhibitory factor**, Interference of a neutrophil recruitment inhibitory factor upon the accumulation of inflammatory cells and airway hyperreactivity in sensitized guinea-pigs after intranasal antigen challenge, **108, 538**
- NG 108-15 cells**, RS 23597-190: a potent and selective 5-HT<sub>4</sub> receptor antagonist, **110, 119**
- Nicardipine**, The effect of lifarizine (RS-87476), a novel sodium and calcium channel modulator, on ischaemic dopamine depletion in the corpus striatum of the gerbil, **109, 175**
- Protection by nicorandil against the dysfunction of the central vagal baroreflex system following transient global cerebral ischaemia in dogs, **109, 1263**
  - Role of neuronal and vascular  $Ca^{2+}$ -channels in the ACTH-induced reversal of haemorrhagic shock, **109, 645**
- Nicorandil**, Effects of KRN2391, nicorandil and diltiazem on the changes in the electrocardiogram caused by endothelin-1 in anaesthetized rats, **109, 679**
- Protection by nicorandil against the dysfunction of the central vagal baroreflex system following transient global cerebral ischaemia in dogs, **109, 1263**
  - Vasorelaxant mechanism of KRN2391 and nicorandil in porcine coronary arteries of different sizes, **109, 632**
- Nicotine**, Pulmonary effects of endogenous and exogenous nitric oxide in the pig: relation to cigarette smoke inhalation, **110, 739**
- Tachykinin receptors of the NK<sub>2</sub> type involved in the acetylcholine release by nicotine in guinea-pig bladder, **108, 759**
- Nicotinic actions**, Modulation of acetylcholine-induced contractions of the rat anococcygeus muscle by activation of nitrergic nerves, **110, 1479**
- Nicotinic channels**, Levamisole-activated single-channel currents from muscle of the nematode parasite *Ascaris suum*, **108, 170**
- Nicotinic receptors**, Ion channel blockade by oximes and recovery of diaphragm muscle from soman poisoning *in vitro*, **108, 1006**
- Mechanism of staurosporine-induced decrease in acetylcholine receptor recovery from desensitization, **108, 741**
- Nicotinic ACh receptor channels**, Blockade by 2,2',2''-tripyrindine of the nicotinic acetylcholine receptor channels in embryonic *Xenopus* muscle cells, **110, 163**
- Nifedipine**, A comparison of the inhibitory effects of sodium nitroprusside, pinacidil and nifedipine on pressor response to *N*<sup>G</sup>-nitro-L-arginine, **108, 398**
- Effects of nifedipine and ryanodine on adrenergic neurogenic contractions of rat vas deferens: evidence for a pulse-to-pulse change in  $Ca^{2+}$  sources, **108, 1062**
- Nimodipine**, Amelioration by the  $Ca^{2+}$  antagonist, nimodipine of an existing neuropathy in the streptozotocin-induced, diabetic rat, **108, 780**
- NIP-121**, Influence of epithelium on the inhibition of melittin-induced contraction of guinea-pig isolated trachea by the potassium channel opener NIP-121, **109, 1091**
- Nisoxetine**, Modulation of  $\alpha_1$ -adrenoceptors and functional consequences in the bisected rat vas deferens following chronic inhibition of neuronal noradrenaline uptake, **108, 678**
- Nitrendipine**, Effect of activation on adhesion of flowing neutrophils to cultured endothelium: time course and inhibition by a calcium channel blocker (nitrendipine), **110, 1630**
- Nitrergic transmission**, Differential effects of hydroxocobalamin on NO-mediated relaxations in rat aorta and anococcygeus muscle, **108,**

3

- Nitric oxide,  $\alpha_2$ -Adrenoceptor-mediated modulation of the nitrergic innervation of the canine isolated ileocolonic junction, 109, 1079**
- $A_2$ -purinoceptor-mediated relaxation in the guinea-pig coronary vasculature: a role for nitric oxide, 109, 424
  - Actions and interactions of  $N^G$ -substituted analogues of L-arginine on NANC neurotransmission in the bovine retractor penis and rat anococcygeus muscles, 108, 242
  - The actions of nitric oxide donors in the prevention or induction of injury to the rat gastric mucosa, 108, 73
  - Adenylate cyclase-mediated vascular responses of rabbit aorta, mesenteric artery and skin microcirculation, 110, 633
  - Aminoguanidine selectively inhibits inducible nitric oxide synthase, 110, 963
  - Attenuation of contractions to acetylcholine in canine bronchi by an endogenous nitric oxide-like substance, 109, 887
  - $\beta$ -Adrenoceptor agonist mediated relaxation of rat isolated resistance arteries: a role for the endothelium and nitric oxide, 108, 631
  - Bacterial endotoxin rapidly stimulates prolonged endothelium-dependent vasodilatation in the rat isolated perfused heart, 109, 987
  - Bradykinin-induced release of PGI<sub>2</sub> from aortic endothelial cell lines: responses mediated selectively by Ca<sup>2+</sup> ions or a staurosporine-sensitive kinase, 110, 411
  - Ca<sup>2+</sup> dependency of the release of nitric oxide from non-adrenergic non-cholinergic nerves, 110, 1329
  - Characterization of the novel nitric oxide synthase inhibitor 7-nitro indazole and related indazoles: antinociceptive and cardiovascular effects, 110, 219
  - A comparison of the inhibitory effects of sodium nitroprusside, pinacidil and nifedipine on pressor response to  $N^G$ -nitro-L-arginine, 108, 398
  - Conversion of glyceryl trinitrate to nitric oxide in tolerant and non-tolerant smooth muscle and endothelial cells, 108, 162
  - Dependence of endotoxin-induced vascular hyporeactivity on extracellular L-arginine, 108, 38
  - Differential effects of acetylcholine, nitric oxide and levromakalim on smooth muscle membrane potential and tone in the rabbit basilar artery, 110, 651
  - Differential effects of hydroxocobalamin on NO-mediated relaxations in rat aorta and anococcygeus muscle, 108, 3
  - Differential inhibition by  $N^G$ -monomethyl-L-arginine of vasodilator effects of acetylcholine and methacholine in human forearm vasculature, 110, 736
  - EDRF release from canine coronary artery by lectins, 110, 1473
  - The effect of endothelins on nitric oxide and prostacyclin production from human umbilical vein, porcine aorta and bovine carotid artery endothelial cells in culture, 109, 1128
  - The effect of  $N^G$ -nitro-L-arginine methyl ester upon basal blood flow and endothelium-dependent vasodilatation in the dog hindlimb, 108, 763
  - The effect of nitric oxide on the efficacy of synaptic transmission through the chick ciliary ganglion, 110, 627
  - Effect of  $\omega$ -conotoxin on adrenergic, cholinergic and NANC neurotransmission in the rabbit urethra and detrusor, 110, 1285
  - Effects of chronic treatment with nitric oxide synthase inhibitors on regional haemodynamic responses to vasodilators in conscious Brattleboro rats, 109, 222
  - Effects of  $N^G$ -nitro-L-arginine methyl ester on the cardiovascular system of the anaesthetized rabbit and on the cardiovascular response to thyrotropin-releasing hormone, 109, 1219
  - The effects of  $N^G$ -nitro-L-arginine methyl ester, sodium nitroprusside and noradrenaline on venous return in the anaesthetized cat, 108, 933
  - Eicosanoid-dependence of responses of pre- but not postglomerular vessels to noradrenaline in rat isolated kidneys, 110, 235
  - Endothelin-3-induced relaxation of rat thoracic aorta: a role for nitric oxide formation, 108, 1125
  - Endotoxin-induced arterial endothelial barrier dysfunction assessed by an *in vitro* model, 110, 1282
  - Evidence against vasoactive intestinal polypeptide as the relaxant neurotransmitter in human cavernosal smooth muscle, 108, 497
  - Evidence for the involvement of both ATP and nitric oxide in non-adrenergic, non-cholinergic inhibitory neurotransmission in the rabbit portal vein, 109, 606
  - Feedback inhibition of nitric oxide synthase activity by nitric oxide, 108, 833
  - Hypercholesterolaemia severely impairs EDRF-dependent collateral perfusion following acute arterial occlusion in rabbit isolated ear, 109, 838
  - Impairment of pulmonary-artery endothelium-dependent relaxation in chronic obstructive lung disease is not due to dysfunction of endothelial cell membrane receptors nor to L-arginine deficiency, 109, 587
  - Induction of a calcium-independent NO synthase by hypercholesterolaemia in the rabbit, 108, 290
  - Induction by endothelin-1 of epithelium-dependent relaxation of guinea-pig trachea *in vitro*: role for nitric oxide, 109, 637
  - Induction by endotoxin of nitric oxide synthase in the rat mesentery: lack of effect on action of vasoconstrictors, 109, 265
  - The induction of nitric oxide synthase and intestinal vascular permeability by endotoxin in the rat, 110, 1189
  - Influences of the endothelium and hypoxia on  $\alpha_1$ - and  $\alpha_2$ -adrenoceptor-mediated responses in the rabbit isolated pulmonary artery, 108, 155
  - Influences of the endothelium and hypoxia on neurogenic transmission in the isolated pulmonary artery of the rabbit, 108, 150
  - Inhibition of nerve stimulation-induced vasodilatation in corpora cavernosa of the pithed rat by blockade of nitric oxide synthase, 108, 1038
  - Inhibition of nitric oxide synthesis reveals non-cholinergic excitatory neurotransmission in the canine proximal colon, 109, 739
  - Inhibition by nitric oxide-donors of human polymorphonuclear leucocyte functions, 109, 852
  - Inhibition by  $N^G$ -nitro-L-arginine methyl ester of the electrocortical arousal response in rats, 108, 858
  - Inhibition of rat cerebellar nitric oxide synthase by 7-nitro indazole and related substituted indazoles, 110, 225
  - Inhibitors of nitric oxide synthetase prevent castor-oil-induced diarrhoea in the rat, 108, 861
  - Interaction of nitric oxide and salivary gland epidermal growth factor in the modulation of rat gastric mucosal integrity, 110, 229
  - Involvement of nitric oxide in the endothelium-dependent relaxation induced by hydrogen peroxide in the rabbit aorta, 110, 151
  - Involvement of nitric oxide synthase in the delayed vasodilator response to ultraviolet light irradiation of rat skin *in vivo*, 109, 802
  - L-Arginine exerts a dual role in nociceptive processing in the brain: involvement of the kyotorphin-Met-enkephalin pathway and NO-cyclic GMP pathway, 109, 73
  - Mechanisms of vasodilatation in pregnancy: studies of the role of prostaglandins and nitric-oxide in changes of vascular reactivity in the *in situ* blood perfused mesentery of pregnant rats, 109, 322
  - Mediators of nonadrenergic, noncholinergic inhibition in the proximal, middle and distal regions of rat colon, 108, 348
  - Modulation of acetylcholine-induced contractions of the rat anococcygeus muscle by activation of nitrergic nerves, 110, 1479
  - Modulation of adjuvant arthritis by endogenous nitric oxide, 110, 701
  - Modulation of cholinergic and substance P-like neurotransmission by nitric oxide in the guinea-pig ileum, 110, 833
  - Modulation by nitric oxide of platelet-activating factor-induced albumin extravasation in the conscious rat, 110, 1347
  - Neuronal and endothelium-derived mediators in the modulation of the gastric microcirculation: integrity in the balance, 110, 3
  - Nitric oxide affects mammalian distal colonic smooth muscle by tonic neural inhibition, 108, 974
  - Nitric oxide and arachidonic acid modulation of calcium currents in postganglionic neurones of avian cultured ciliary ganglia, 109, 480
  - Nitric oxide is involved in the regulation of angiogenesis, 108, 855
  - Nitric oxide mediates the inhibition by interleukin-1 $\beta$  of pentagastrin-stimulated rat gastric acid secretion, 108, 9
  - Nitric oxide modulates vascular permeability in the rat coronary circulation, 108, 323
  - Nitric oxide modulation of calcium-activated potassium channels in postganglionic neurones of avian cultured ciliary ganglia, 110, 995
  - Nitric oxide synthase in pig lower urinary tract: immunohistochemistry, NADPH diaphorase histochemistry and functional effects, 110, 521
  - Nitric oxide-dependent and -independent hyperaemia due to calcitonin gene-related peptide in the rat stomach, 110, 404
  - Nitric oxide-mediated changes in vascular reactivity in pregnancy in spontaneously hypertensive rats, 110, 1184
  - S-nitrosocysteine, but not sodium nitroprusside, produces apamin-sensitive hyperpolarization in rat gastric fundus, 109, 415
  - Prejunctional modulation of the nitrergic innervation of the canine

- ileocolonic junction via potassium channels, 110, 559
- Prevention by an inhibitor of the L-arginine-nitric oxide pathway of the antiarrhythmic effects of bradykinin in anaesthetized dogs, 110, 18
  - Propofol stimulates nitric oxide release from cultured porcine aortic endothelial cells, 109, 6
  - Pulmonary effects of endogenous and exogenous nitric oxide in the pig: relation to cigarette smoke inhalation, 110, 739
  - Regulation of NANC neural bronchoconstriction *in vivo* in the guinea-pig: involvement of nitric oxide, vasoactive intestinal peptide and soluble guanylyl cyclase, 108, 228
  - Regulation of neural responses in the canine pyloric sphincter by opioids, 108, 1024
  - Release of nitric oxide from glyceryl trinitrate by captopril but not enalaprilat: *in vitro* and *in vivo* studies, 109, 430
  - Role of the endothelium in the response to cholinceptor stimulation of rabbit ear and femoral arteries during cooling, 109, 61
  - The role of nitric oxide in cholinergic neurotransmission in rat trachea, 110, 816
  - Role of prostaglandins and nitric oxide in acute inflammatory reactions in guinea-pig skin, 110, 1515
  - Role of tumour necrosis factor in the induction of nitric oxide synthase in a rat model of endotoxin shock, 110, 177
  - Selective inhibition of agonist-induced but not shear stress-dependent release of endothelial autacoids by thapsigargin, 108, 100
  - Selective inhibition of basal but not agonist-stimulated activity of nitric oxide in rat aorta by *N*<sup>G</sup>-monomethyl-L-arginine, 110, 1003
  - Selective inhibition by dexamethasone of induction of NO synthase, but not of induction of L-arginine transport, in activated murine macrophage J774 cells, 110, 1401
  - Support of renal blood flow after ischaemic-reperfusion injury by endogenous formation of nitric oxide and of cyclo-oxygenase vasodilator metabolites, 109, 188
  - Vascular actions of purines in the foetal circulation of the human placenta, 110, 454
  - Vascular and anti-platelet actions of 1,2- and 1,3-glyceryl dinitrate, 110, 937
  - Vascular responses to endothelin-1 following inhibition of nitric oxide synthesis in the conscious rat, 110, 1213
- Nitric oxide donors**, The actions of nitric oxide donors in the prevention or induction of injury to the rat gastric mucosa, 108, 73
- Nitric oxide generators**, Feedback inhibition of nitric oxide synthase activity by nitric oxide, 108, 833
- Nitric oxide synthase**, 7-Nitro indazole, an inhibitor of nitric oxide synthase, exhibits anti-nociceptive activity in the mouse without increasing blood pressure, 108, 296
- Aminoguanidine selectively inhibits inducible nitric oxide synthase, 110, 963
  - Characterization of the binding of [<sup>3</sup>H]-L-NG-nitro-arginine in rat brain, 109, 287
  - Characterization of the novel nitric oxide synthase inhibitor 7-nitro indazole and related indazoles: antinociceptive and cardiovascular effects, 110, 219
  - Dependence of endotoxin-induced vascular hyporeactivity on extracellular L-arginine, 108, 38
  - Effects of pyrimidines on the guinea-pig coronary vasculature, 110, 1091
  - Endothelin-1 in the rabbit: interactions with cyclo-oxygenase and NO-synthase products, 108, 838
  - Endothelin-3-induced relaxation of rat thoracic aorta: a role for nitric oxide formation, 108, 1125
  - Induction of a calcium-independent NO synthase by hypercholesterolaemia in the rabbit, 108, 290
  - The induction of nitric oxide synthase and intestinal vascular permeability by endotoxin in the rat, 110, 1189
  - Interactions of nitric oxide synthase inhibitors and dexamethasone with  $\alpha$ -adrenoceptor-mediated responses in rat aorta, 109, 495
  - Involvement of nitric oxide in the endothelium-dependent relaxation induced by hydrogen peroxide in the rabbit aorta, 110, 151
  - Involvement of nitric oxide synthase in the delayed vasodilator response to ultraviolet light irradiation of rat skin *in vivo*, 109, 802
  - Nitric oxide synthase in pig lower urinary tract: immunohistochemistry, NADPH diaphorase histochemistry and functional effects, 110, 521
  - Nitric oxide-mediated hyporeactivity to noradrenaline precedes the induction of nitric oxide synthase in endotoxin shock, 108, 786
  - Porcine ventricular endocardial cells in culture express the inducible form of nitric oxide synthase, 108, 1107
  - Selective inhibition of basal but not agonist-stimulated activity of nitric oxide in rat aorta by *N*<sup>G</sup>-monomethyl-L-arginine, 110, 1003
- Nitric oxide synthase, cerebellar**, Inhibition of rat cerebellar nitric oxide synthase by 7-nitro indazole and related substituted indazoles, 110, 225
- Nitric oxide synthase inhibition**, Nitric oxide-dependent and -independent hyperaemia due to calcitonin gene-related peptide in the rat stomach, 110, 404
- Nitric oxide synthase inhibitors**, Characterization of the binding of [<sup>3</sup>H]-L-NG-nitro-arginine in rat brain, 109, 287
- Feedback inhibition of nitric oxide synthase activity by nitric oxide, 108, 833
  - Halothane inhibits the pressor effect of diphenyleneiodonium, 109, 1186
  - The induction of nitric oxide synthase and intestinal vascular permeability by endotoxin in the rat, 110, 1189
  - Inhibitory actions of diphenyleneiodonium on endothelium-dependent vasodilatations *in vitro* and *in vivo*, 110, 1232
  - Interactions of nitric oxide synthase inhibitors and dexamethasone with  $\alpha$ -adrenoceptor-mediated responses in rat aorta, 109, 495
  - Involvement of nitric oxide in the endothelium-dependent relaxation induced by hydrogen peroxide in the rabbit aorta, 110, 151
  - Vascular responses to endothelin-1 following inhibition of nitric oxide synthesis in the conscious rat, 110, 1213
- Nitric oxide-releasing compounds**, Inhibition by nitric oxide-donors of human polymorphonuclear leucocyte functions, 109, 852
- Nitrite**, Regulation of NANC neural bronchoconstriction *in vivo* in the guinea-pig: involvement of nitric oxide, 108, 228
- 7-Nitro indazole**, Characterization of the novel nitric oxide synthase inhibitor 7-nitro indazole and related indazoles: antinociceptive and cardiovascular effects, 110, 219
- Inhibition of rat cerebellar nitric oxide synthase by 7-nitro indazole and related substituted indazoles, 110, 225
  - 7-Nitro indazole, an inhibitor of nitric oxide synthase, exhibits antinociceptive activity in the mouse without increasing blood pressure, 108, 296
- N*<sup>G</sup>-Nitro-D-arginine (D-NOARG)**, L-Arginine exerts a dual role in nociceptive processing in the brain: involvement of the kyotorphin-Met-enkephalin pathway and NO-cyclic GMP pathway, 109, 73
- N*<sup>G</sup>-Nitro-L-arginine (L-NOARG)**, Actions and interactions of *N*<sup>G</sup>-substituted analogues of L-arginine on NANC neurotransmission in the bovine retractor penis and rat anococcygeus muscles, 108, 242
- Bacterial endotoxin rapidly stimulates prolonged endothelium-dependent vasodilatation in the rat isolated perfused heart, 109, 987
  - A comparison of the inhibitory effects of sodium nitroprusside, pinacidil and nifedipine on pressor response to *N*<sup>G</sup>-nitro-L-arginine, 108, 398
  - Evidence against vasoactive intestinal polypeptide as the relaxant neurotransmitter in human cavernosal smooth muscle, 108, 497
  - Inhibition of nerve stimulation-induced vasodilatation in corpora cavernosa of the pithed rat by blockade of nitric oxide synthase, 108, 1038
  - Mediators of nonadrenergic, noncholinergic inhibition in the proximal, middle and distal regions of rat colon, 108, 348
  - Nitric oxide synthase in pig lower urinary tract: immunohistochemistry, NADPH diaphorase histochemistry and functional effects, 110, 521
  - Nitric oxide-mediated changes in vascular reactivity in pregnancy in spontaneously hypertensive rats, 110, 1184
  - Propofol stimulates nitric oxide release from cultured porcine aortic endothelial cells, 109, 6
  - Selective inhibition of basal but not agonist-stimulated activity of nitric oxide in rat aorta by *N*<sup>G</sup>-monomethyl-L-arginine, 110, 1003
- [<sup>3</sup>H]-*N*<sup>G</sup>-Nitro-L-arginine (L-NOARG)**, Characterization of the binding of [<sup>3</sup>H]-L-NG-nitro-arginine in rat brain, 109, 287
- N*<sup>ω</sup>-Nitro-L-arginine (L-NOARG)**, Endothelium-dependent noradrenaline-induced relaxation of rat isolated cerebral arteries: pharmacological characterization of receptor subtypes involved, 110, 1321
- N*<sup>G</sup>-Nitro-L-arginine methyl ester (L-NAME)**, Acetylcholine-induced endothelium-independent relaxations in monkey isolated superior and inferior caval veins, 109, 992
- Actions and interactions of *N*<sup>G</sup>-substituted analogues of L-arginine on NANC neurotransmission in the bovine retractor penis and rat

- anococcygeus muscles, 108, 242
- $\beta$ -Adrenoceptor agonist mediated relaxation of rat isolated resistance arteries: a role for the endothelium and nitric oxide, 108, 631
  - L-Arginine exerts a dual role in nociceptive processing in the brain: involvement of the kyotorphin-Met-enkephalin pathway and NO-cyclic GMP pathway, 109, 73
  - Bacterial endotoxin rapidly stimulates prolonged endothelium-dependent vasodilatation in the rat isolated perfused heart, 109, 987
  - Cerebral blood flow and cerebrovascular reactivity after inhibition of nitric oxide synthesis in conscious goats, 110, 428
  - Dependence of endotoxin-induced vascular hyporeactivity on extracellular L-arginine, 108, 38
  - The effect of  $N^G$ -nitro-L-arginine methyl ester upon basal blood flow and endothelium-dependent vasodilatation in the dog hindlimb, 108, 763
  - Effects of  $N^G$ -nitro-L-arginine methyl ester on the cardiovascular system of the anaesthetized rabbit and on the cardiovascular response to thyrotropin-releasing hormone, 109, 1219
  - The effects of  $N^G$ -nitro-L-arginine methyl ester, sodium nitroprusside and noradrenaline on venous return in the anaesthetized cat, 108, 933
  - Effects of pyrimidines on the guinea-pig coronary vasculature, 110, 1091
  - Induction by endotoxin of nitric oxide synthase in the rat mesentery: lack of effect on action of vasoconstrictors, 109, 265
  - Influences of the endothelium and hypoxia on  $\alpha_1$ - and  $\alpha_2$ -adrenoceptor-mediated responses in the rabbit isolated pulmonary artery, 108, 155
  - Influences of the endothelium and hypoxia on neurogenic transmission in the isolated pulmonary artery of the rabbit, 108, 150
  - Inhibition by  $N^G$ -nitro-L-arginine methyl ester of the electrocortical arousal response in rats, 108, 858
  - Inhibitors of nitric oxide synthetase prevent castor-oil-induced diarrhoea in the rat, 108, 861
  - Interaction of nitric oxide and salivary gland epidermal growth factor in the modulation of rat gastric mucosal integrity, 110, 229
  - Modulation of acetylcholine-induced contractions of the rat anococcygeus muscle by activation of nitrergic nerves, 110, 1479
  - Modulation of adjuvant arthritis by endogenous nitric oxide, 110, 701
  - Modulation by nitric oxide of platelet-activating factor-induced albumin extravasation in the conscious rat, 110, 1347
  - Modulation of vasodilatation to levromakalim by hypoxia and EDRF in the rabbit isolated ear: a comparison with pinacidil, sodium nitroprusside and verapamil, 109, 386
  - Nitric oxide mediates the inhibition by interleukin-18 of pentagastrin-stimulated rat gastric acid secretion, 108, 9
  - Nitric oxide modulates vascular permeability in the rat coronary circulation, 108, 323
  - Nitric oxide-dependent and -independent hyperaemia due to calcitonin gene-related peptide in the rat stomach, 110, 404
  - Nitric oxide-mediated hyporeactivity to noradrenaline precedes the induction of nitric oxide synthase in endotoxin shock, 108, 786
  - 7-Nitro indazole, an inhibitor of nitric oxide synthase, exhibits antinociceptive activity in the mouse without increasing blood pressure, 108, 296
  - Prevention by an inhibitor of the L-arginine-nitric oxide pathway of the antiarrhythmic effects of bradykinin in anaesthetized dogs, 110, 18
  - Role of the endothelium in the response to cholinergic stimulation of rabbit ear and femoral arteries during cooling, 109, 61
  - Role of prostaglandins and nitric oxide in acute inflammatory reactions in guinea-pig skin, 110, 1515
  - Support of renal blood flow after ischaemic-reperfusion injury by endogenous formation of nitric oxide and of cyclo-oxygenase vasodilator metabolites, 109, 188
  - Vascular responses to endothelin-1 following inhibition of nitric oxide synthesis in the conscious rat, 110, 1213
- Nitrogen dioxide**, Pulmonary effects of endogenous and exogenous nitric oxide in the pig: relation to cigarette smoke inhalation, 110, 739
- Nitroglycerin**, Protection by nicorandil against the dysfunction of the central vagal baroreflex system following transient global cerebral ischaemia in dogs, 109, 1263
- Vasorelaxant mechanism of KRN2391 and nicorandil in porcine coronary arteries of different sizes, 109, 632
- Nitroprusside**, The actions of nitric oxide donors in the prevention or induction of injury to the rat gastric mucosa, 108, 73
- Effects of atrial natriuretic peptide and nitroprusside on isolated pulmonary resistance and conduit arteries from rats with pulmonary hypertension, 110, 1363
  - The effects of  $N^G$ -nitro-L-arginine methyl ester, sodium nitroprusside and noradrenaline on venous return in the anaesthetized cat, 108, 933
- Nitrosocobalamin**, Differential effects of hydroxocobalamin on NO-mediated relaxations in rat aorta and anococcygeus muscle, 108, 3
- S-Nitrosocysteine**, S-nitrosocysteine, but not sodium nitroprusside, produces apamin-sensitive hyperpolarization in rat gastric fundus, 109, 415
- S-Nitroso-N-acetyl-penicillamine**, The actions of nitric oxide donors in the prevention or induction of injury to the rat gastric mucosa, 108, 73
- Regional and cardiac haemodynamic effects of  $N^G$ ,  $N^G$ , dimethyl-L-arginine and their reversibility by vasodilators in conscious rats, 110, 1457
- S-Nitroso-glutathione**, Regional and cardiac haemodynamic effects of  $N^G$ ,  $N^G$ , dimethyl-L-arginine and their reversibility by vasodilators in conscious rats, 110, 1457
- Nitrosothiols**, The actions of nitric oxide donors in the prevention or induction of injury to the rat gastric mucosa, 108, 73
- Nitrovasodilators**, The actions of nitric oxide donors in the prevention or induction of injury to the rat gastric mucosa, 108, 73
- Cerebral blood flow and cerebrovascular reactivity after inhibition of nitric oxide synthesis in conscious goats, 110, 428
  - Impairment of pulmonary-artery endothelium-dependent relaxation in chronic obstructive lung disease is not due to dysfunction of endothelial cell membrane receptors nor to L-arginine deficiency, 109, 587
- NMDA**, Inotropic glutamate receptor types leading to adenosine-mediated inhibition of electrically evoked [ $^3$ H]-noradrenaline release in rabbit brain cortex slices, 110, 1544
- NMDA receptors**, Actions of agonists of metabotropic glutamate receptors on synaptic transmission and transmitter release in the olfactory cortex, 108, 422
- Effects of pH on the actions of dizocilpine at the *N*-methyl-D-aspartate receptor complex, 109, 107
  - The glycine/NMDA receptor antagonist, *R*-(+)-HA-966, blocks activation of the mesolimbic dopaminergic system induced by phencyclidine and dizocilpine (MK-801) in rodents, 108, 1156
  - Inhibition of [ $^3$ H]-(+)-MK 801 binding to rat brain sections by CPP and 7-chlorokynurenic acid: an autoradiographic analysis, 108, 577
  - Lack of effect of L-687,414 ((+)-*cis*-4-methyl-HA-966), an NMDA receptor antagonist acting at the glycine site, on cerebral glucose metabolism and cortical neuronal morphology, 110, 36
- NMDA receptor antagonists**, Effects of LY274614, a competitive NMDA receptor antagonist, on the micturition reflex in the urethane-anaesthetized rat, 110, 77
- Nociception**, Effect of RP 67580, a non-peptide neurokinin<sub>1</sub> receptor antagonist, on facilitation of a nociceptive spinal flexion reflex in the rat, 109, 713
- Evidence for participation of  $B_1$  and  $B_2$  kinin receptors in formalin-induced nociceptive response in the mouse, 110, 193
  - Functional evidence for multiple receptor activation by k-ligands in the inhibition of spinal nociceptive reflexes in the rat, 110, 303
  - Induction of bradykinin  $B_1$  receptors *in vivo* in a model of ultra-violet irradiation-induced thermal hyperalgesia in the rat, 110, 1441
  - L-Arginine exerts a dual role in nociceptive processing in the brain: involvement of the kyotorphin-Met-enkephalin pathway and NO-cyclic GMP pathway, 109, 73
  - The effects of cholinergic agonists and antagonists on C-fibre evoked responses in the substantia gelatinosa of neonatal rat spinal cord slices, 110, 1061
- Nociceptive transmissions**, Muscarinic excitatory and inhibitory mechanisms involved in afferent fibre-evoked depolarization of motoneurons in the neonatal rat spinal cord, 110, 61
- Nocodazole**, Prevention of nitric oxide synthase induction in vascular smooth muscle cells by microtubule depolymerizing agents, 109, 603
- Nomifensine**, Modulation of  $\alpha_1$ -adrenoceptors and functional consequences in the bisected rat vas deferens following chronic inhibition of neuronal noradrenaline uptake, 108, 678
- Non-adrenergic inhibitory nerves**, The role of nitric oxide in cholinergic neurotransmission in rat trachea, 110, 816
- Non-adrenergic non-cholinergic contractions**, Effects of two  $\beta_2$ -adrenoceptor agonists, SR 58611A and BRL 37344, and of salbutamol on cholinergic and NANC neural contraction in guinea-pig main bronchi *in vitro*, 110, 1311

- Non-adrenergic non-cholinergic inhibition**, Mediators of nonadrenergic, noncholinergic inhibition in the proximal, middle and distal regions of rat colon, 108, 348
- Non-adrenergic non-cholinergic nerves**, Actions and interactions of  $N^G$ -substituted analogues of L-arginine on NANC neurotransmission in the bovine retractor penis and rat anococcygeus muscles, 108, 242
- $Ca^{2+}$  dependency of the release of nitric oxide from non-adrenergic non-cholinergic nerves, 110, 1329
  - Evidence for the involvement of both ATP and nitric oxide in non-adrenergic, non-cholinergic inhibitory neurotransmission in the rabbit portal vein, 109, 606
  - Non-adrenergic, non-cholinergic neural activation in guinea-pig bronchi: powerful and frequency-dependent stabilizing effect on tone, 109, 845
  - Regulation of NANC neural bronchoconstriction *in vivo* in the guinea-pig: involvement of nitric oxide, 108, 228
- Non-adrenergic non-cholinergic neurotransmission**, Effect of  $\omega$ -conotoxin on adrenergic, cholinergic and NANC neurotransmission in the rabbit urethra and detrusor, 110, 1285
- Modulation of acetylcholine-induced contractions of the rat anococcygeus muscle by activation of nitrergic nerves, 110, 1479
- Non-adrenergic non-cholinergic relaxation**, Prejunctional modulation of the nitrergic innervation of the canine ileocolonic junction via potassium channels, 110, 559
- Non-adrenergic non-cholinergic responses**,  $\alpha_2$ -Adrenoceptor-mediated modulation of the nitrergic innervation of the canine isolated ileocolonic junction, 109, 1079
- Tachykinin receptors mediating responses to sensory nerve stimulation and exogenous tachykinins and analogues in the rabbit isolated iris sphincter, 109, 1008
- Non-adrenoceptor idazoxan binding sites**, Chronic treatment with the monoamine oxidase inhibitors clorgyline and pargyline down-regulates non-adrenoceptor [ $^3H$ ]-idazoxan binding sites in the rat brain, 108, 597
- Stimulation of insulin secretion by imidazoline compounds is not due to interaction with non-adrenoceptor idazoxan binding sites, 108, 312
- Non-adrenoceptor imidazoline binding sites**, Antagonism of levromakalim by imidazoline- and guanidine-derivatives in rat portal vein: involvement of the delayed rectifier, 110, 1556
- Species-selective binding of [ $^3H$ ]-idazoxan to  $\alpha_2$ -adrenoceptors and non-adrenoceptor, imidazoline binding sites in the central nervous system, 109, 831
- Non-cholinergic excitatory junction potentials**, Tachykinin  $NK_1$  but not  $NK_2$  receptors mediate non-cholinergic excitatory junction potentials in the circular muscle of guinea-pig colon, 110, 795
- Non-peptide antagonists**, Non-peptide antagonists, CP-96,345 and RP 67580, distinguish species variants in tachykinin  $NK_1$  receptors, 108, 223
- Non-selective cation channels**, Effects of excitatory neurotransmitters on  $Ca^{2+}$  channel current in smooth muscle cells isolated from guinea-pig urinary bladder, 110, 317
- Pharmacological characterization of muscarinic receptor-activated cation channels in guinea-pig ileum, 109, 793
- Non-specific cation channels**, Two distinct cytosolic calcium responses to extracellular ATP in rat parotid acinar cells, 108, 453
- Noradrenaline**, A comparison of the inhibitory effects of sodium nitroprusside, pinacidil and nifedipine on pressor response to  $N^G$ -nitro-L-arginine, 108, 398
- A comparison of rat brain amino acid and monoamine content in diazepam withdrawal and after exposure to a phobic stimulus, 109, 171
  - Dual contractile effects of ATP released by field stimulation revealed by effects of  $\alpha,\beta$ -methylene ATP and suramin in rat tail artery, 110, 1421
  - The effects of  $N^G$ -nitro-L-arginine methyl ester, sodium nitroprusside and noradrenaline on venous return in the anaesthetized cat, 108, 933
  - Effects of a water-soluble forskolin derivative (NKH477) and a membrane-permeable cyclic AMP analogue on noradrenaline-induced  $Ca^{2+}$  mobilization in smooth muscle of rabbit mesenteric artery, 110, 1117
  - Eicosanoid-dependence of responses of pre- but not postglomerular vessels to noradrenaline in rat isolated kidneys, 110, 235
  - Endothelium-dependent noradrenaline-induced relaxation of rat isolated cerebral arteries: pharmacological characterization of receptor subtypes involved, 110, 1321
  - Evidence that depletion of internal calcium stores sensitive to noradrenaline elicits a contractile response dependent on extracellular calcium in rat aorta, 110, 861
- Evidence that RU 24969-induced locomotor activity in C57/B1/6 mice is specifically mediated by the 5-HT $_B$  receptor, 110, 1621
  - Halothane inhibits the pressor effect of diphenyleiiodonium, 109, 1186
  - Induction by endogenous noradrenaline of an  $\alpha_1$ -adrenoceptor-mediated positive inotropic effect in rabbit papillary muscles, 109, 1232
  - Modulation of central noradrenergic function by RS-15385-197, 108, 526
  - Neuronal and endothelium-derived mediators in the modulation of the gastric microcirculation: integrity in the balance, 110, 3
  - Protective effects of bradykinin on the ischaemic heart: implication of the  $B_1$  receptor, 108, 318
  - Role of tumour necrosis factor in the induction of nitric oxide synthase in a rat model of endotoxin shock, 110, 177
  - Stimulation of lumbar sympathetic nerves evokes contractions of cat colon circular muscle mediated by ATP and noradrenaline, 110, 1260
- Noradrenaline overflow**, *In vivo* microdialysis of noradrenaline overflow: effects of  $\alpha$ -adrenoceptor agonists and antagonists measured by cumulative concentration-response curves, 109, 655
- Noradrenaline release**,  $\alpha_2$ -Autoreceptor subclassification in rat isolated kidney by use of short trains of electrical stimulation, 108, 262
- Altered cardiac adrenergic neurotransmission in streptozotocin-induced diabetic rats, 109, 1276
  - Central  $\alpha_2$ -autoreceptors: agonist dissociation constants and recovery after irreversible inactivation, 108, 370
  - Effect of an intracellular calcium chelator on the regulation of electrically evoked [ $^3H$ ]-noradrenaline release from rat hippocampal slices, 108, 126
  - Effects of the central analgesic tramadol on the uptake and release of noradrenaline and dopamine *in vitro*, 108, 806
  - Evidence that  $M_1$  muscarinic receptors enhance noradrenaline release in mouse atria by activating protein kinase C, 110, 910
  - Inotropic glutamate receptor types leading to adenosine-mediated inhibition of electrically evoked [ $^3H$ ]-noradrenaline release in rabbit brain cortex slices, 110, 1544
  - Involvement of pertussis toxin-sensitive and -insensitive mechanisms in  $\alpha$ -adrenoceptor modulation of noradrenaline release from rat sympathetic neurones in tissue culture, 110, 281
  - Prejunctional modulation of noradrenaline release in mouse and rat vas deferens: contribution of  $P_1$ - and  $P_2$ -purinoceptors, 110, 1465
- Noradrenaline uptake**, Effects of the central analgesic tramadol on the uptake and release of noradrenaline and dopamine *in vitro*, 108, 806
- High-affinity uptake of noradrenaline in postsynaptic neurones, 109, 299
  - Modulation of  $\alpha_1$ -adrenoceptors and functional consequences in the bisected rat vas deferens following chronic inhibition of neuronal noradrenaline uptake, 108, 678
- Noradrenaline uptake blockade**, Effects of the central analgesic tramadol and its main metabolite, *O*-desmethyltramadol, on rat locus coeruleus neurones, 110, 169
- Noradrenaline-induced contraction**, Relation between  $\alpha_1$ -adrenoceptor subtypes and noradrenaline-induced contraction in rat portal vein smooth muscle, 110, 207
- Nor-binaltorphimine**, Withdrawal contractures of guinea-pig isolated ileum after acute activation of  $\kappa$ -opioid receptors, 109, 48
- Norcodeinone**, Binding and structure-activity-relation of benzo[*f*]isoquinoline- and norcodeinone-derivatives at  $\mu$ -opioid receptors in the rat cerebral cortex, 110, 1429
- Normoxia**, Effects of beraprost on the transmembrane potentials of guinea-pig ventricular muscles during normoxia and hypoxia-reoxygenation, 109, 1014
- Nuclear magnetic resonance**, Effects of prolonged application of isoprenaline on intracellular free magnesium concentration in isolated heart of rat, 109, 443
- Nucleoside transport inhibition**, The antiarrhythmic effects of the nucleoside transporter inhibitor, R75231, in anaesthetized pigs, 109, 592
- Nucleotide receptors**, Activation of the phospholipase C pathway by ATP is mediated exclusively through nucleotide type  $P_2$ -purinoceptors in C2C12 myotubes, 110, 747
- Characterization of  $P_2$ -purinoceptor mediated cyclic AMP formation in mouse C2C12 myotubes, 110, 133
  - Desensitization of the  $P_2$ -purinoceptors on the rat colon muscularis

- mucosae, 110, 501
- Evidence for a nucleotide receptor on adrenal medullary endothelial cells linked to phospholipase C and phospholipase D, 108, 1031
  - Extracellular ATP and UTP activation of phospholipase D is mediated by protein kinase C- $\epsilon$  in rat renal mesangial cells, 110, 847
  - Homologous and heterologous desensitization of histamine  $H_1$ - and ATP-receptors in the smooth muscle cell line, DDT<sub>1</sub>MF-2: the role of protein kinase C, 110, 1449
  - Intracellular cross-talk between receptors coupled to phospholipase C via pertussis toxin-sensitive and insensitive G-proteins in DDT<sub>1</sub>MF-2 cells, 109, 719
  - The regulation of aortic endothelial cells by purines and pyrimidines involves co-existing  $P_2$ -purinoceptors and nucleotide receptors linked to phospholipase C, 108, 689
- Nucleotides**, Increases in intracellular calcium via activation of an endogenous  $P_2$ -purinoceptor in cultured CHO-K1 cells, 110, 1305
- Nucleus reticularis lateralis**, Relevance of the use of [ $^3H$ ]-clonidine to identify imidazoline receptors in the rabbit brainstem, 110, 1537
- Null methods**, Estimation of partial agonist affinity by interaction with a full agonist: a direct operational model-fitting approach, 110, 239

## O

- Octreotide**, Enteral absorption of octreotide: absorption enhancement by polyoxyethylene-24-cholesterol ether, 108, 298
- Oedema**, Activation by *Phoneutria nigriventer* (armed spider) venom of tissue kallikrein-kininogen-kinin system in rabbit skin *in vivo*, 109, 539
- Anti-inflammatory actions of an N-terminal peptide from human lipocortin 1, 108, 573
  - Attenuation of tachykinin-induced airflow obstruction and microvascular leakage in immature airways, 108, 23
  - E-type prostaglandins enhance local oedema formation and neutrophil accumulation but suppress eosinophil accumulation in guinea-pig skin, 110, 416
  - Effect of dexamethasone on neutrophil accumulation and oedema formation in rabbit skin: an investigation of site of action, 108, 959
  - Evidence for participation of  $B_1$  and  $B_2$  kinin receptors in formalin-induced nociceptive response in the mouse, 110, 193
  - The local anti-inflammatory action of dexamethasone in the rat carrageenin oedema model is reversed by an antiserum to lipocortin 1, 108, 62
  - The modulation of inflammatory oedema by calcitonin gene-related peptide, 108, 705
  - Role of platelet-activating factor (PAF) in platelet accumulation in rabbit skin: effect of the novel long-acting PAF antagonist, UK-74,505, 109, 234
  - Role of prostaglandins and nitric oxide in acute inflammatory reactions in guinea-pig skin, 110, 1515
  - Suppression by intradermal administration of heparin of eosinophil accumulation but not oedema formation in inflammatory reactions in guinea-pig skin, 110, 1496
- Oedema airway**, Leukotriene  $D_4$ - and prostaglandin  $F_{2\alpha}$ -induced airflow obstruction and airway plasma exudation in guinea-pig: role of thromboxane and its receptor, 110, 127
- Oedema, carrageenin**, Role of oxygen radicals and arachidonic acid metabolites in the reverse passive Arthus reaction and carrageenin paw oedema in the rat, 110, 896
- Oedema, ear**, Profile of capsaicin-induced mouse ear oedema as neurogenic inflammatory model: comparison with arachidonic acid-induced ear oedema, 110, 1614
- Suppression of inflammatory responses to 12-O-tetradecanoyl-phorbol-13-acetate and carrageenin by YM-26734, a selective inhibitor of extracellular group II phospholipase  $A_2$ , 110, 447
- Oesophagus, canine**, Effect of adrenoceptor agonists on striated muscle strips of the canine oesophagus, 110, 297
- Oesophagus, rat**, The  $\beta$ -adrenoceptors mediating relaxation of rat oesophageal muscularis mucosae are predominantly of the  $\beta_3$ -, but also of the  $\beta_2$ -subtype, 110, 442
- RS 23597-190: a potent and selective 5-HT<sub>4</sub> receptor antagonist, 110, 119
- Oestradiol 17 $\beta$** , Oestradiol inhibits smooth muscle cell proliferation of pig coronary artery, 109, 612
- Oestrogen**, Protection by oestradiol against the development of cardiovascular changes associated with monocrotaline pulmonary hypertension in rats, 110, 719
- Oestrogen receptors**, A current view of tamoxifen for the treatment and prevention of breast cancer, 110, 507
- Ondansetron**, 5-HT<sub>3</sub> antagonists reduce morphine self-administration in rats, 110, 1341
- 5-HT<sub>4</sub> receptor mediated facilitation of the emptying phase of the peristaltic reflex in the guinea-pig isolated ileum, 110, 1572
  - Functional characterization of a 5-HT<sub>3</sub> receptor which modulates the release of 5-HT in the guinea-pig brain, 108, 13
- Ontogeny**, Characterization and ontogeny of  $P_1$ -purinoceptors on rat vas deferens, 108, 754
- Effect of delayed weaning on opioid receptor control of swim stress-induced antinociception in the developing rat, 109, 651
- Oocytes**, Pharmacology of GABA  $\rho 1$  and GABA  $\alpha/\beta$  receptors expressed in *Xenopus* oocytes and COS cells, 109, 200
- Operational models**, Estimation of partial agonist affinity by interaction with a full agonist: a direct operational model-fitting approach, 110, 239
- Interactions between responses mediated by activation of adenosine  $A_2$  receptors and  $\alpha_1$ -adrenoceptors in the rabbit isolated aorta, 109, 394
- Opiates**, Effects of the  $\kappa$ -opioid agonist U50,488 on parturition in rats, 109, 251
- Opioids**, Electrophysiological and antiarrhythmic actions of the  $\kappa$  agonist PD 129290, and its *R,R*(+)-enantiomer, PD 129289, 110, 1579
- Modulation of opioid antinociception by CCK at the supraspinal level: evidence of regulatory mechanisms between CCK and enkephalin systems in the control of pain, 109, 1064
- $\kappa$ -Opioid agonists**, Electrophysiological and antiarrhythmic actions of the  $\kappa$  agonist PD 129290, and its *R,R*(+)-enantiomer, PD 129289, 110, 1579
- Functional evidence for multiple receptor activation by  $\kappa$ -ligands in the inhibition of spinal nociceptive reflexes in the rat, 110, 303
  - Sensory nerve-mediated relaxation of guinea-pig isolated pulmonary artery: prejunctional modulation by  $\alpha_2$ -adrenoceptor agonists but not sumatriptan, 109, 126
- Opioid receptors**, Effect of delayed weaning on opioid receptor control of swim stress-induced antinociception in the developing rat, 109, 651
- Effect of opioid receptor subtype-selective agonists on purinergic and adrenergic components of neurogenic contractions of mouse vas deferens, 108, 443
- Opioid receptor agonists**, Differential effects of  $K^+$  channel blockers on antinociception induced by  $\alpha_2$ -adrenoceptor, GABA<sub>B</sub> and  $\kappa$ -opioid receptor agonists, 110, 1049
- A non-peptide NK<sub>1</sub>-receptor antagonist, RP 67580, inhibits neurogenic inflammation postsynaptically, 109, 259
- Opioid  $\kappa$  receptors**, Withdrawal contractures of guinea-pig isolated ileum after acute activation of  $\kappa$ -opioid receptors, 109, 48
- Opioid  $\mu$  receptors**, Binding and structure-activity-relation of benzo[*f*]-isoquinoline- and norcodeinone-derivatives at  $\mu$ -opioid receptors in the rat cerebral cortex, 110, 1429
- Electrophysiological actions of alfentanil: intracellular studies in the rat locus coeruleus neurones, 110, 903
- Opioid withdrawal**, Withdrawal contractures of guinea-pig isolated ileum after acute activation of  $\kappa$ -opioid receptors, 109, 48
- Org 7797**, Electrophysiological effects of Org 7797 in the closed-chest anaesthetized dog, 110, 23
- Organic cation-proton exchanger**, Transport of celiprolol across human intestinal epithelial (Caco-2) cells: mediation of secretion by multiple transporters including P-glycoprotein, 110, 1009
- Organophosphates**, Ion channel blockade by oximes and recovery of diaphragm muscle from soman poisoning *in vitro*, 108, 1006
- L-Ornithine**, Selective inhibition by dexamethasone of induction of NO synthase, but not of induction of L-arginine transport, in activated murine macrophage J774 cells, 110, 1401
- Osmotic minipumps**, Potentiation of  $\alpha$ -adrenoceptor-mediated responses following chronic  $\beta$ -adrenoceptor stimulation in the rat heart, 108, 658
- Ouabain**, Activation of the Na<sup>+</sup>/K<sup>+</sup>-pump in rat peritoneal mast cells following histamine release: a possible role in cell recovery, 108, 120
- Effects of direct renal arterial infusion of bufalin and ouabain in conscious sheep, 108, 627
- Oxatomide**, Virus-induced airway hyperresponsiveness in the guinea-pig: possible involvement of histamine and inflammatory cells, 108, 1083
- Oxime**, Ion channel blockade by oximes and recovery of diaphragm muscle from soman poisoning *in vitro*, 108, 1006

- Oxygen, activated**, Roles of prostacyclin, EDRF and active oxygens in leukocyte-dependent platelet adhesion to endothelial cells induced by platelet-activating factor *in vitro*, 109, 524
- Oxygen radicals**, Cellular mechanism of U7517F in the protection of porcine coronary artery endothelial cells from oxygen radical-induced damage, 108, 1077
- Role of oxygen radicals and arachidonic acid metabolites in the reverse passive Arthus reaction and carrageenin paw oedema in the rat, 110, 896
- Oxygen, singlet**, Photodynamic action of aluminium phthalocyanine tetrasulphonate (AlPcS<sub>4</sub>) on smooth muscle: effects of thiols and a cyclic GMP analogue, 110, 1248
- Oxygen-derived free radicals**, Arterial endothelial barrier dysfunction: actions of homocysteine and the hypoxanthine-xanthine oxidase free radical generating system, 108, 920
- Oxyhaemoglobin**, Vascular and anti-platelet actions of 1,2- and 1,3-glycerol dinitrate, 110, 937
- Oxytocin**, Effects of the  $\kappa$ -opioid agonist U50,488 on parturition in rats, 109, 251
- Involvement of cholecystokinin receptor types in pathways controlling oxytocin secretion, 110, 378

## P

- P1060**, Effects of P1060 and aprikalim on whole-cell currents in rat portal vein; inhibition by glibenclamide and phentolamine, 108, 991
- P-glycoprotein**, Transport of celiprolol across human intestinal epithelial (Caco-2) cells: mediation of secretion by multiple transporters including P-glycoprotein, 110, 1009
- Pain**, Effect of RP 67580, a non-peptide neurokinin<sub>1</sub> receptor antagonist, on facilitation of a nociceptive spinal flexion reflex in the rat, 109, 713
- Paired-pulse facilitation**, Bicuculline-resistant paired-pulse inhibition in the rat hippocampal slice, 109, 1164
- Paired-pulse inhibition**, Bicuculline-resistant paired-pulse inhibition in the rat hippocampal slice, 109, 1164
- Palytoxin**, 3,4 Dichlorobenzamil-sensitive, monovalent cation channel induced by palytoxin in cultured aortic myocytes, 109, 859
- Pancreas**, 2-Naphthalenesulphonyl L-aspartyl-(2-phenethyl)amide (2-NAP)—a selective cholecystokinin CCK<sub>A</sub>-receptor antagonist, 108, 734
- Competitive inhibition by procaine of carbachol-induced stimulus-secretion coupling in rat pancreatic acini, 110, 603
- Pancreas, exocrine**, Dual effects of chlorobutanol on secretory response and intracellular Ca<sup>2+</sup> dynamics in isolated pancreatic acini of the rat, 109, 685
- Effects of the immunosuppressants cyclosporin A and FK 506 on exocytosis in the rat exocrine pancreas *in vitro*, 108, 892
- Pancreatic acini**, Dual effects of chlorobutanol on secretory response and intracellular Ca<sup>2+</sup> dynamics in isolated pancreatic acini of the rat, 109, 685
- Pancreatic  $\beta$ -cells**, Inhibition of the ATP-sensitive potassium channel by class I antiarrhythmic agent, cibenzoline, in rat pancreatic  $\beta$ -cells, 109, 1226
- Inhibition by hydrochlorothiazide of insulin release and calcium influx in mouse pancreatic  $\beta$ -cells, 110, 1359
- Pancreatic secretion**, Dual effects of chlorobutanol on secretory response and intracellular Ca<sup>2+</sup> dynamics in isolated pancreatic acini of the rat, 109, 685
- Pancreatitis (experimental)**, Pathological events in experimental acute pancreatitis prevented by the bradykinin antagonist, Hoe 140, 108, 405
- Pancuronium**, Reversal by suramin of neuromuscular block produced by pancuronium in the anaesthetized rat, 108, 717
- Papaverine**, Evidence that depletion of internal calcium stores sensitive to noradrenaline elicits a contractile response dependent on extracellular calcium in rat aorta, 110, 861
- Inhibition of nerve stimulation-induced vasodilatation in corpora cavernosa of the pithed rat by blockade of nitric oxide synthase, 108, 1038
- Papillary muscles**, Calcium antagonistic and antiarrhythmic actions of CPU-23, a substituted tetrahydroisoquinoline, 109, 113
- Induction by endogenous noradrenaline of an  $\alpha_1$ -adrenoceptor-mediated positive inotropic effect in rabbit papillary muscles, 109, 1232
- Papillary muscles, guinea-pig**, Attenuation by phentolamine of hypoxia and levromakalim-induced abbreviation of the cardiac action potential, 110, 1222
- Differential Class III and glibenclamide effects on action potential duration in guinea-pig papillary muscle during normoxia and hypoxia/ischaemia, 110, 531
- Parainfluenza 3 virus**, Virus-induced airway hyperresponsiveness in the guinea-pig: possible involvement of histamine and inflammatory cells, 108, 1083
- Parasympathetic denervation**, Two distinct cytosolic calcium responses to extracellular ATP in rat parotid acinar cells, 108, 453
- Pargyline**, Chronic treatment with the monoamine oxidase inhibitors clorgyline and pargyline down-regulates non-adrenoceptor [<sup>3</sup>H]-idazoxan binding sites in the rat brain, 108, 597
- Parotid cells, rat**, Two distinct cytosolic calcium responses to extracellular ATP in rat parotid acinar cells, 108, 453
- Paroxetine**, The effects of single and repeated anorectic doses of 5-hydroxytryptamine uptake inhibitors on indole levels in rat brain, 110, 355
- Functional characterization of a 5-HT<sub>3</sub> receptor which modulates the release of 5-HT in the guinea-pig brain, 108, 13
- Partial agonists**, Estimation of partial agonist affinity by interaction with a full agonist: a direct operational model-fitting approach, 110, 239
- Quantitative analysis of the agonist and antagonist actions of some ATP analogues at P<sub>2X</sub>-purinoceptors in the rabbit ear artery, 108, 490
- Passive avoidance response**,  $\alpha$ -Sialyl cholesterol reverses AF64A-induced deficit in passive avoidance response and depletion of hippocampal acetylcholine in mice, 108, 387
- Passive sensitization**, Effect of passive sensitization on the mechanical activity of human isolated bronchial smooth muscle induced by substance P, neurokinin A and VIP, 109, 131
- Patch clamp**, Effects of propafenone on calcium current in guinea-pig ventricular myocytes, 108, 721
- Fendiline inhibits L-type calcium channels in guinea-pig ventricular myocytes: a whole-cell patch-clamp study, 108, 865
  - Inhibitory actions of ZENECA ZD7288 on whole-cell hyperpolarization activated inward current (I<sub>h</sub>) in guinea-pig dissociated sinoatrial node cells, 110, 343
  - Ionic effects on amiloride block of the mechanosensitive channel in *Xenopus* oocytes, 108, 116
  - Pharmacology of a cloned potassium channel from mouse brain (MK-1) expressed in CHO cells: effects of blockers and an 'inactivation peptide', 109, 725
  - Thiocyanate ions selectively antagonize AMPA-evoked responses in *Xenopus laevis* oocytes microinjected with rat brain mRNA, 109, 779
  - Whole cell and single channel analysis of the kinetics of glycine-sensitive N-methyl-D-aspartate receptor desensitization, 109, 213
- Patch recording**, nystatin perforated, Existence of rolipram-sensitive phosphodiesterase in rat megakaryocyte, 109, 1020
- Paw-pressure test**, Inhibition of spinal opioid antinociception by intrathecal  $\beta$ -endorphin<sub>1-27</sub> in the rat, 108, 1137
- PD 123177**, Role of angiotensin AT<sub>1</sub> and AT<sub>2</sub> receptors in mediating the renal effects of angiotensin II in the anaesthetized dog, 109, 148
- PD 123319**, Pharmacological characteristics of the positive inotropic effect of angiotensin II in the rabbit ventricular myocardium, 108, 999
- PD 129289**, Electrophysiological and antiarrhythmic actions of the  $\kappa$  agonist PD 129290, and its R,R(+)-enantiomer, PD 129289, 110, 1579
- PD 129290**, Electrophysiological and antiarrhythmic actions of the  $\kappa$  agonist PD 129290, and its R,R(+)-enantiomer, PD 129289, 110, 1579
- PD 142893**, Use of the endothelin antagonists BQ-123 and PD 142893 to reveal three endothelin receptors mediating smooth muscle contraction and the release of EDRF, 110, 777
- Penile erection**, Evidence against vasoactive intestinal polypeptide as the relaxant neurotransmitter in human cavernosal smooth muscle, 108, 497
- Inhibition of nerve stimulation-induced vasodilatation in corpora cavernosa of the pithed rat by blockade of nitric oxide synthase, 108, 1038
- Pentagastrin**, Nitric oxide mediates the inhibition by interleukin-1 $\beta$  of pentagastrin-stimulated rat gastric acid secretion, 108, 9
- Pentobarbitone**, Counteraction of the rapid tolerance to 8-OH-DPAT-induced corticosterone secretion in rats by activation of the GABA<sub>A</sub> receptor-chloride channel complex, 109, 207
- Halothane inhibits the pressor effect of diphenylethylidonium, 109, 1186
  - The influence of the  $\gamma_{2L}$  subunit on the modulation of responses to

- GABA<sub>A</sub> receptor activation, 108, 711
- Pentoxifylline**, Investigation into the role of phosphodiesterase IV in bronchorelaxation, including studies with human bronchus, 108, 562
- Peptide YY**, Localization and characterization of neuropeptide Y binding sites in porcine and human colon, 108, 304
- Peptidoleukotriene release**, Endothelin-induced contraction and mediator release in human bronchus, 110, 392
- Peripheral benzodiazepine receptors**, Mediation of the neuroprotective action of *R*-phenylisopropyladenosine through a centrally located adenosine A<sub>1</sub> receptor, 110, 470
- Peripheral nerve regeneration**, Amelioration by the Ca<sup>2+</sup> antagonist, nimodipine of an existing neuropathy in the streptozotocin-induced, diabetic rat, 108, 780
- Nasal administration of an ACTH(4–9) peptide analogue with dimethyl- $\beta$ -cyclodextrin as absorption enhancer pharmacokinetics and dynamics, 110, 1335
- Peripheral resistance**, Production by  $\alpha$ -methylhistamine of a histamine H<sub>3</sub> receptor-mediated decrease in basal vascular resistance in guinea-pigs, 110, 553
- Peristaltic reflex**, 5-HT<sub>4</sub> receptor mediated facilitation of the emptying phase of the peristaltic reflex in the guinea-pig isolated ileum, 110, 1572
- Influence of rhein anthrone on peristaltic reflex of guinea-pig isolated ileum: involvement of prostaglandins, 108, 269
- Permeability**, Characterization of the increase in vascular permeability induced by vascular permeability factor *in vivo*, 109, 195
- Pertussis toxin**, Involvement of pertussis toxin-sensitive and – insensitive mechanisms in  $\alpha$ -adrenoceptor modulation of noradrenaline release from rat sympathetic neurones in tissue culture, 110, 281
- Pharmacological differentiation by pertussis toxin of the *in vivo* acute responses to fMLP and PAF in guinea-pig lungs, 108, 412
- pH**, Effects of pH on the actions of dizocilpine at the *N*-methyl-D-aspartate receptor complex, 109, 107
- Pharmacokinetics**, Antiepileptic drug pharmacokinetics and neuropharmacokinetics in individual rats by repetitive withdrawal of blood and cerebrospinal fluid: milacemide, 108, 1117
- Phencyclidine**, The glycine/NMDA receptor antagonist, *R*-(+)-HA-966, blocks activation of the mesolimbic dopaminergic system induced by phencyclidine and dizocilpine (MK-801) in rodents, 108, 1156
- Phenol derivatives**, Calcium antagonist and antiperoxidant properties of some hindered phenols, 110, 369
- Phenoxybenzamine**, Selective inactivation of muscarinic M<sub>2</sub> and M<sub>3</sub> receptors in guinea-pig ileum and atria *in vitro*, 109, 946
- Phentolamine**, Antagonism of levromakalim by imidazoline- and guanidine-derivatives in rat portal vein: involvement of the delayed rectifier, 110, 1556
- Attenuation by phentolamine of hypoxia and levromakalim-induced abbreviation of the cardiac action potential, 110, 1222
- Effects of P1060 and aprikalim on whole-cell currents in rat portal vein; inhibition by glibenclamide and phentolamine, 108, 991
- 2-Phenyl-4-oxo-hydroquinoline**, Mechanical and electrophysiological studies on the positive inotropic effect of 2-phenyl-4-oxo-hydroquinoline in rat cardiac tissues, 110, 310
- Phenylalkylamines**, Evidence for an external location of the dihydropyridine agonist receptor site on smooth muscle and skeletal muscle calcium channels, 108, 884
- Phenylephrine**, Chloride anion concentration as a determinant of renal vascular responsiveness to vasoconstrictor agents, 108, 106
- Induction by endotoxin of nitric oxide synthase in the rat mesentery: lack of effect on action of vasoconstrictors, 109, 265
- R*-Phenylisopropyladenosine (*R*-PIA)**, Adenosine A<sub>3</sub> receptors mediate hypotension in the angiotensin II-supported circulation of the pithed rat, 109, 3
- Inhibition by the adenosine analogue, (*R*)-*N*<sup>6</sup>-phenylisopropyladenosine, of kainic acid neurotoxicity in rat hippocampus after systemic administration, 109, 316
- Mediation of the neuro-protective action of *R*-phenylisopropyladenosine through a centrally located adenosine A<sub>1</sub> receptor, 110, 470
- S*-*N*<sup>6</sup>-Phenylisopropyladenosine (*S*-PIA)**, Adenosine A<sub>3</sub> receptors mediate hypotension in the angiotensin II-supported circulation of the pithed rat, 109, 3
- [<sup>3</sup>H]-*R*-Phenylisopropyladenosine ([<sup>3</sup>H]-*R*-PIA) binding**, On the high affinity binding site for [<sup>3</sup>H]-1,3-dipropyl-8-cyclopentylxanthine in frog brain membranes, 109, 518
- 8-Phenyltheophylline (8-PT)**, Action of purine and pyrimidine nucleotides on the rat superior cervical ganglion, 110, 1297
- Inhibition by the adenosine analogue, (*R*)-*N*<sup>6</sup>-phenylisopropyladenosine, of kainic acid neurotoxicity in rat hippocampus after systemic administration, 109, 316
- Phobic stimulus**, A comparison of rat brain amino acid and monoamine content in diazepam withdrawal and after exposure to a phobic stimulus, 109, 171
- Phoneutria nigriventer***, Activation by *Phoneutria nigriventer* (armed spider) venom of tissue kallikrein-kininogen-kinin system in rabbit skin *in vivo*, 109, 539
- Phorbol esters**, Activation of protein kinase C potentiates postsynaptic acetylcholine response at developing neuromuscular synapses, 110, 707
- Contractile and relaxant effects of phorbol ester in the intestinal smooth muscle of guinea-pig taenia caeci, 109, 229
- Different pathways of calcium sensitization activated by receptor agonists and phorbol esters in vascular smooth muscle, 110, 1527
- Eicosanoid-induced Ca<sup>2+</sup> release and sustained contraction in Ca<sup>2+</sup>-free media are mediated by different signal transduction pathways in rat aorta, 110, 875
- Homologous and heterologous desensitization of histamine H<sub>1</sub>- and ATP-receptors in the smooth muscle cell line, DDT<sub>1</sub>MF-2: the role of protein kinase C, 110, 1449
- Increases in intracellular calcium via activation of an endogenous P<sub>2</sub>-purinoceptor in cultured CHO-K1 cells, 110, 1305
- Pharmacological characteristics of the positive inotropic effect of angiotensin II in the rabbit ventricular myocardium, 108, 999
- Renal tubular dopamine outward transfer during Na<sup>+</sup>-H<sup>+</sup> exchange activation by  $\alpha_1$ - and  $\alpha_2$ -adrenoceptor agonists, 109, 569
- Phosphatidylinositol**, Characterization of the effects of lithium on phosphatidylinositol (PI) cycle activity in human muscarinic m1 receptor-transfected CHO cells, 110, 809
- Phosphocreatine**, Effects of prolonged application of isoprenaline on intracellular free magnesium concentration in isolated heart of rat, 109, 443
- Phosphodiesterase**, Existence of rolipram-sensitive phosphodiesterase in rat megakaryocyte, 109, 1020
- Phosphodiesterase inhibitors**, Cardiotonic actions of selective phosphodiesterase inhibitors in rat isolated ventricular cardiomyocytes, 110, 1387
- Comparative study of the control of basal acid output from rodent isolated stomachs, 109, 941
- Comparison of the effects of selective inhibitors of phosphodiesterase types III and IV in airway smooth muscle with differing  $\beta$ -adrenoceptor subtypes, 108, 57
- Effects of rolipram and siguazodan on the human isolated bronchus and their interaction with isoprenaline and sodium nitroprusside, 109, 774
- Incomplete reversal of  $\beta$ -adrenoceptor desensitization in human and guinea-pig cardiomyocytes by cyclic nucleotide phosphodiesterase inhibitors, 109, 1071
- Phosphodiesterase isoenzymes**, Investigation into the role of phosphodiesterase IV in bronchorelaxation, including studies with human bronchus, 108, 562
- Phosphoinositide hydrolysis**, Pharmacological characteristics of the positive inotropic effect of angiotensin II in the rabbit ventricular myocardium, 108, 999
- Protein kinase regulation of muscarinic receptor signalling in colonic smooth muscle, 108, 613
- Phospholipase**, Differential effects of B<sub>2</sub> receptor antagonists upon bradykinin-stimulated phospholipase C and D in guinea-pig cultured tracheal smooth muscle, 110, 477
- Phospholipase A<sub>2</sub>**, Enhancement by calcitonin gene-related peptide of nicotinic receptor-operated noncontractile Ca<sup>2+</sup> mobilization at the mouse neuromuscular junction, 110, 639
- Suppression of inflammatory responses to 12-*O*-tetradecanoyl-phorbol-13-acetate and carrageenin by YM-26734, a selective inhibitor of extracellular group II phospholipase A<sub>2</sub>, 110, 447
- Phospholipase A<sub>2</sub> inhibitors**, Effects of phospholipase A<sub>2</sub> inhibitors on coupling of  $\alpha_2$ -adrenoceptors to inwardly rectifying potassium currents in guinea-pig submucosal neurones, 110, 591
- Phospholipase C**, Evidence for a nucleotide receptor on adrenal medullary endothelial cells linked to phospholipase C and phospholipase D, 108, 1031
- Higher potency of RP 67580, in the mouse and the rat compared with other nonpeptide and peptide tachykinin NK<sub>1</sub> antagonists, 108, 793

- Muscarinic regulation of cytosolic free calcium in canine tracheal smooth muscle cells:  $\text{Ca}^{2+}$  requirement for phospholipase C activation, 110, 1239
- The regulation of aortic endothelial cells by purines and pyrimidines involves co-existing  $\text{P}_{2\gamma}$ -purinoceptors and nucleotide receptors linked to phospholipase C, 108, 689
- Phospholipase D**, Evidence for a nucleotide receptor on adrenal medullary endothelial cells linked to phospholipase C and phospholipase D, 108, 1031
- Extracellular ATP and UTP activation of phospholipase D is mediated by protein kinase C- $\epsilon$  in rat renal mesangial cells, 110, 847
- Phosphoramidon**, Attenuation of tachykinin-induced airflow obstruction and microvascular leakage in immature airways, 108, 23
- Comparison of the cardiovascular and neural activity of endothelin-1, -2, -3 and respective proendothelins: effects of phosphoramidon and thiorphan, 110, 331
- Comparison of haemoconcentration induced by big endothelin-1 and endothelin-1 in mice, 110, 1395
- Effect of passive sensitization on the mechanical activity of human isolated bronchial smooth muscle induced by substance P, neurokinin A and VIP, 109, 131
- Metabolism of endothelin-1 and big endothelin-1 by recombinant neutral endopeptidase EC.3.4.24.11, 109, 1024
- Profile of capsaicin-induced mouse ear oedema as neurogenic inflammatory model: comparison with arachidonic acid-induced ear oedema, 110, 1614
- Photodynamic drug action**, Photodynamic action of aluminium phthalocyanine tetrasulphonate ( $\text{AlPcS}_4$ ) on smooth muscle: effects of thiols and a cyclic GMP analogue, 110, 1248
- Pilsicainide**, Antiarrhythmic agents act differently on the activation phase of the ACh-response in guinea-pig atrial myocytes, 108, 111
- Pinacidil**, A comparison of the inhibitory effects of sodium nitroprusside, pinacidil and nifedipine on pressor response to  $\text{N}^G$ -nitro-L-arginine, 108, 398
- Modulation of vasodilatation to levromakalim by hypoxia and EDRF in the rabbit isolated ear: a comparison with pinacidil, sodium nitroprusside and verapamil, 109, 386
- Piperoxan**, *In vivo* microdialysis of noradrenaline overflow: effects of  $\alpha$ -adrenoceptor agonists and antagonists measured by cumulative concentration-response curves, 109, 655
- Pithed rat**, Inhibition of nerve stimulation-induced vasodilatation in corpora cavernosa of the pithed rat by blockade of nitric oxide synthase, 108, 1038
- Pituitary adenylate cyclase activating polypeptides**, Adenylate cyclase-mediated vascular responses of rabbit aorta, mesenteric artery and skin microcirculation, 110, 633
- PK 11195**, Inhibition by the adenosine analogue, (*R*)- $\text{N}^6$ -phenylisopropyladenosine, of kainic acid neurotoxicity in rat hippocampus after systemic administration, 109, 316
- Mediation of the neuroprotective action of *R*-phenylisopropyladenosine through a centrally located adenosine  $\text{A}_1$  receptor, 110, 470
- [ $^3\text{H}$ ]-PK 11195**, Changes in [ $^3\text{H}$ ]-PK 11195 and [ $^3\text{H}$ ]-8-OH-DPAT binding following forebrain ischaemia in the gerbil, 109, 437
- PKI(6-22)amide**, Levromakalim may induce a voltage-independent K-current in rat portal veins by modifying the gating properties of the delayed rectifier, 110, 1037
- Placenta**, Differential localization of endothelin  $\text{ET}_A$  and  $\text{ET}_B$  binding sites in human placenta, 109, 544
- Vascular actions of purines in the foetal circulation of the human placenta, 110, 454
- Placenta, human**, Vascular actions of purines in the foetal circulation of the human placenta, 110, 454
- Plasma extravasation**,  $\text{NK}_2$  receptors mediate plasma extravasation in guinea-pig lower airways, 108, 383
- Ruthenium red, but not capsazepine reduces plasma extravasation by cigarette smoke in rat airways, 108, 646
- Time-dependent blockade of neurogenic plasma extravasation in dura mater by 5-HT $_{1B/D}$  agonists and endopeptidase 24.11, 108, 331
- Plasma exudation**, Attenuation of tachykinin-induced airflow obstruction and microvascular leakage in immature airways, 108, 23
- Bradykinin-induced airflow obstruction and airway plasma exudation: effects of drugs that inhibit acetylcholine, thromboxane  $\text{A}_2$  or leukotrienes, 110, 657
- Effects of two novel tachykinin antagonists, FK224 and FK888, on neurogenic airway plasma exudation, bronchoconstriction and systemic hypotension in guinea-pigs *in vivo*, 108, 844
- Plasma leakage, neutrophil-dependent**, Role of oxygen radicals and arachidonic acid metabolites in the reverse passive Arthus reaction and carrageenin paw oedema in the rat, 110, 896
- Plasma protein extravasation**, Pathological events in experimental acute pancreatitis prevented by the bradykinin antagonist, Hoe 140, 108, 405
- Plasmalemma**, The superficial buffer barrier in venous smooth muscle: sarcoplasmic reticulum refilling and unloading, 109, 336
- Platelet accumulation**, Role of platelet-activating factor (PAF) in platelet accumulation in rabbit skin: effect of the novel long-acting PAF antagonist, UK-74,505, 109, 234
- Platelet adhesion**, Roles of prostacyclin, EDRF and active oxygens in leukocyte-dependent platelet adhesion to endothelial cells induced by platelet-activating factor *in vitro*, 109, 524
- Platelet aggregation**,  $\text{Ca}^{2+}$ -dependent aggregation of rabbit platelets induced by maitotoxin, a potent marine toxin, isolated from a dinoflagellate, 109, 29
- Mediation of endothelin-1-induced inhibition of platelet aggregation via the  $\text{ET}_B$  receptor, 109, 530
- Potentiation of aggregation and inhibition of adenylate cyclase in human platelets by prostaglandin E analogues, 108, 363
- Vascular and anti-platelet actions of 1,2- and 1,3-glyceryl dinitrate, 110, 937
- Platelet, human**, Characteristics of the binding of [ $^3\text{H}$ ]-GR32191 to the thromboxane (TP-) receptor of human platelets, 110, 539
- Reduction in the number of thromboxane receptors on human platelets after exposure to GR32191, 110, 548
- Platelet thrombus**, Redirection of arachidonic acid metabolism by ICI D1542: effects on thrombus formation in the coronary artery of the anaesthetized dog, 108, 901
- Platelet-activating factor**, Effect of heparin and a low-molecular weight heparinoid on PAF-induced airway responses in neonatally immunized rabbits, 110, 107
- Effect of the platelet-activating factor antagonist, TCV-309, and the cyclo-oxygenase inhibitor, ibuprofen, on the haemodynamic changes in canine experimental endotoxic shock, 110, 1501
- The effect of platelet-activating factor on the responsiveness of the human nasal airway, 110, 113
- Modulation by nitric oxide of platelet-activating factor-induced albumin extravasation in the conscious rat, 110, 1347
- Nitric oxide modulates vascular permeability in the rat coronary circulation, 108, 323
- PAF activation of a voltage-gated R-type  $\text{Ca}^{2+}$  channel in human and canine aortic endothelial cells, 110, 519
- Pharmacological differentiation by pertussis toxin of the *in vivo* acute responses to fMLP and PAF in guinea-pig lungs, 108, 412
- Role of platelet-activating factor (PAF) in platelet accumulation in rabbit skin: effect of the novel long-acting PAF antagonist, UK-74,505, 109, 234
- Roles of prostacyclin, EDRF and active oxygens in leukocyte-dependent platelet adhesion to endothelial cells induced by platelet-activating factor *in vitro*, 109, 524
- Platelet-activating factor antagonists**, Effect of the platelet-activating factor antagonist, TCV-309, and the cyclo-oxygenase inhibitor, ibuprofen, on the haemodynamic changes in canine experimental endotoxic shock, 110, 1501
- Role of platelet-activating factor (PAF) in platelet accumulation in rabbit skin: effect of the novel long-acting PAF antagonist, UK-74,505, 109, 234
- Platelet-activating factor receptor antagonists**, Partial agonist effect of the platelet-activating factor receptor antagonists, WEB 2086 and WEB 2170, in the rat perfused heart, 110, 645
- Platelets**,  $\alpha_2$ -Adrenoceptor antagonist potencies of two hydroxylated metabolites of yohimbine, 108, 927
- Dissociation of the anti-ischaemic effects of cloricromene from its anti-platelet activity, 110, 275
- The effect of defibrotide on thromboembolism in the pulmonary vasculature of mice and rabbits and in the cerebral vasculature of rabbits, 110, 1565
- Effects of analogues of adenine nucleotides on increases in intracellular calcium mediated by  $\text{P}_{2\text{T}}$ -purinoceptors on human blood platelets, 108, 728
- Inhibition by recombinant SLPI and half-SLPI ( $\text{Asn}^{55}$ -Ala $^{107}$ ) of elastase and cathepsin G activities: consequence for neutrophil-platelet cooperation, 108, 1100
- Interaction between the effects of 5-hydroxytryptamine and adrenaline

- on the growth of platelet thrombi in the coronary artery of the anaesthetized dog, 109, 405
- Pharmacological differentiation by pertussis toxin of the *in vivo* acute responses to fMLP and PAF in guinea-pig lungs, 108, 412
  - Sodium modulation of <sup>3</sup>H-agonist and <sup>3</sup>H-antagonist binding to  $\alpha_2$ -adrenoceptor subtypes, 109, 371
  - ZD1542, a potent thromboxane A<sub>2</sub> synthase inhibitor and receptor antagonist *in vitro*, 110, 1600
- Platelets, human**, Effects of L- and D-arginine and some related esters on the cytosolic mechanisms of  $\alpha$ -thrombin-induced human platelet activation, 110, 213
- Platelets, rabbit**, Ca<sup>2+</sup>-dependent aggregation of rabbit platelets induced by maitotoxin, a potent marine toxin, isolated from a dinoflagellate, 109, 29
- Pleurisy, rat**, Suppression of inflammatory responses to 12-O-tetradecanoyl-phorbol-13-acetate and carrageenin by YM-26734, a selective inhibitor of extracellular group II phospholipase A<sub>2</sub>, 110, 447
- Polyarginine**, A comparison of the effects of polyarginine and stimulated eosinophils on the responsiveness of the bovine isovolumic bronchial segment preparation, 109, 553
- Polymerase chain reaction**, Glycine stimulates striatal dopamine release in conscious rats, 110, 50
- Polymixin B**, Endotoxin-induced arterial endothelial barrier dysfunction assessed by an *in vitro* model, 110, 1282
- Polymorphonuclear leukocytes**, Involvement of nitric oxide in the endothelium-dependent relaxation induced by hydrogen peroxide in the rabbit aorta, 110, 151
- Polyoxyethylene-2,4-cholesterol ether**, Enteral absorption of octreotide: absorption enhancement by polyoxyethylene-2,4-cholesterol ether, 108, 298
- Porsolt test**, Mediation of the antidepressant-like effect of 8-OH-DPAT in mice by postsynaptic 5-HT<sub>1A</sub> receptors, 108, 669
- Positive inotropic effect**, Altered cardiac adrenergic neurotransmission in streptozotocin-induced diabetic rats, 109, 1276
- Induction by endogenous noradrenaline of an  $\alpha_1$ -adrenoceptor-mediated positive inotropic effect in rabbit papillary muscles, 109, 1232
  - Pharmacological characteristics of the positive inotropic effect of angiotensin II in the rabbit ventricular myocardium, 108, 999
- Positive inotropism**, Blockade of adenosine receptors unmasks a stimulatory effect of ATP on cardiac contractility, 109, 1268
- Postganglionic neurones**, Nitric oxide and arachidonic acid modulation of calcium currents in postganglionic neurones of avian cultured ciliary ganglia, 109, 480
- Nitric oxide modulation of calcium-activated potassium channels in postganglionic neurones of avian cultured ciliary ganglia, 110, 995
- Postsynaptic neurones**, High-affinity uptake of noradrenaline in postsynaptic neurones, 109, 299
- Potassium channel activators**, Cardiovascular effects of SCA40, a novel potassium channel opener, in rats, 110, 1031
- Comparison of the airways relaxant and hypotensive potencies of the potassium channel activators BRL 55834 and levromakalim (BRL 38227) *in vivo* in guinea-pigs and rats, 109, 1133
  - Effects of the novel potassium channel opener, UR-8225, on contractile responses in rat isolated smooth muscle, 110, 1165
  - Induction of a glibenclamide-sensitive K-current by modification of a delayed rectifier channel in rat portal vein and insulinoma cells, 110, 1280
  - Levromakalim may induce a voltage-independent K-current in rat portal veins by modifying the gating properties of the delayed rectifier, 110, 1037
  - Partial inhibition by epithelium of tracheal smooth muscle relaxation induced by the potassium channel activator, BRL 38227, 110, 139
- Potassium channel blockers**, Influence of epithelium on the inhibition of melittin-induced contraction of guinea-pig isolated trachea by the potassium channel opener NIP-121, 109, 1091
- Modulation of vasodilatation to levromakalim by hypoxia and EDRF in the rabbit isolated ear: a comparison with pinacidil, sodium nitroprusside and verapamil, 109, 386
  - Pharmacological characterization of muscarinic receptor-activated cation channels in guinea-pig ileum, 109, 793
- Potassium channels**,  $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal K<sup>+</sup>-channels in bovine trachealis muscle: studies of mechanical activity and ion fluxes, 109, 1149
- $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal K<sup>+</sup>-channels in trachealis muscle: electrophysiological and mechanical studies in guinea-pig tissue, 109, 1140
- Antagonism of levromakalim by imidazoline- and guanidine-derivatives in rat portal vein: involvement of the delayed rectifier, 110, 1556
  - Antagonism of the stimulatory effects of efaroxan and glibenclamide in rat pancreatic islets by the imidazoline, RX801080, 110, 1017
  - Antiarrhythmic agents act differently on the activation phase of the ACh-response in guinea-pig atrial myocytes, 108, 111
  - Antiarrhythmic drugs, clofilium and cibenzoline are potent inhibitors of glibenclamide-sensitive K<sup>+</sup> currents in *Xenopus* oocytes, 109, 866
  - Cardiovascular effects of SCA40, a novel potassium channel opener, in rats, 110, 1031
  - Differential effects of acetylcholine, nitric oxide and levromakalim on smooth muscle membrane potential and tone in the rabbit basilar artery, 110, 651
  - Differential effects of K<sup>+</sup> channel blockers on antinociception induced by  $\alpha_2$ -adrenoceptor, GABA<sub>B</sub> and  $\kappa$ -opioid receptor agonists, 110, 1049
  - Differential inhibition of a transient K<sup>+</sup> current by chlorpromazine and 4-aminopyridine in neurones of the rat dorsal root ganglia, 109, 1239
  - Effects of the novel potassium channel opener, UR-8225, on contractile responses in rat isolated smooth muscle, 110, 1165
  - Electrophysiological actions of alfentanil: intracellular studies in the rat locus coeruleus neurones, 110, 903
  - Evaluation of the relaxant effects of SCA40, a novel charybdotoxin-sensitive potassium channel opener, in guinea-pig isolated trachealis, 108, 622
  - Induction of a glibenclamide-sensitive K-current by modification of a delayed rectifier channel in rat portal vein and insulinoma cells, 110, 1280
  - Modification by charybdotoxin and apamin of spontaneous electrical and mechanical activity of the circular smooth muscle of the guinea-pig stomach, 109, 661
  - Modulation by histamine of the delayed outward potassium current in guinea-pig ventricular myocytes, 109, 142
  - Prejunctional modulation of the nitrergic innervation of the canine ileocolonic junction via potassium channels, 110, 559
  - Single channel and whole-cell K-currents evoked by levromakalim in smooth muscle cells from the rabbit portal vein, 110, 583
  - Structural features important for the biological activity of the potassium channel blocking dendrotoxins, 110, 790
- Potassium channels, cloned**, Pharmacology of a cloned potassium channel from mouse brain (MK-1) expressed in CHO cells: effects of blockers and an 'inactivation peptide', 109, 725
- Potassium conductance**, Effect of nafamostat mesilate on Na<sup>+</sup> and K<sup>+</sup> transport properties in the rabbit cortical collecting duct, 109, 673
- Potassium currents**, Action of  $\alpha$ -dendrotoxin on K<sup>+</sup> currents in nerve terminal regions of axons in rat olfactory cortex, 109, 535
- Block of potassium currents in rat isolated sympathetic neurones by tricyclic antidepressants and structurally related compounds, 110, 1126
  - Caffeine-induced decreases in the inward rectifier potassium and the inward calcium currents in rat ventricular myocytes, 109, 895
  - Effects of cicletanine on whole-cell currents of single smooth muscle cells from the guinea-pig portal vein, 109, 164
  - Effects of lisinopril on electromechanical properties and membrane currents in guinea-pig cardiac preparations, 109, 873
  - Induction of a glibenclamide-sensitive K-current by modification of a delayed rectifier channel in rat portal vein and insulinoma cells, 110, 1280
- Potassium currents, transient**, Differential inhibition of a transient K<sup>+</sup> current by chlorpromazine and 4-aminopyridine in neurones of the rat dorsal root ganglia, 109, 1239
- Potassium current delayed rectifiers**, Effects of MS-551, a new class III antiarrhythmic drug, on action potential and membrane currents in rabbit ventricular myocytes, 109, 157
- Potassium current inward rectifiers**, Effects of MS-551, a new class III antiarrhythmic drug, on action potential and membrane currents in rabbit ventricular myocytes, 109, 157
- <sup>42</sup>**Potassium-efflux**, Effects of rubidium on responses to potassium channel openers in rat isolated aorta, 109, 925
- PPADS**, PPADS selectively antagonizes P<sub>2X</sub>-purinoceptor-mediated responses in the rabbit urinary bladder, 110, 1491
- Prazosin**, Investigation of the subtypes of  $\alpha_1$ -adrenoceptor mediating contractions of rat aorta, vas deferens and spleen, 109, 80

- [<sup>3</sup>H]-Prazosin binding, Modulation of  $\alpha_1$ -adrenoceptors and functional consequences in the bisected rat vas deferens following chronic inhibition of neuronal noradrenaline uptake, 108, 678
- Pharmacological characterization of two distinct  $\alpha_1$ -adrenoceptor subtypes in rabbit thoracic aorta, 108, 1071
  - Relation between  $\alpha_1$ -adrenoceptor subtypes and noradrenaline-induced contraction in rat portal vein smooth muscle, 110, 207
- Pregnancy**, *In vitro* characterization of prostanoid receptors on human myometrium at term pregnancy, 108, 501
- Lymphocyte  $\beta_2$ -adrenoceptors and adenosine 3':5'-cyclic monophosphate during and after normal pregnancy, 108, 356
  - Mechanisms of vasodilatation in pregnancy: studies of the role of prostaglandins and nitric-oxide in changes of vascular reactivity in the *in situ* blood perfused mesentery of pregnant rats, 109, 322
  - Nitric oxide-mediated changes in vascular reactivity in pregnancy in spontaneously hypertensive rats, 110, 1184
- Prejunctional**, Characterization and ontogeny of  $P_1$ -purinoceptors on rat vas deferens, 108, 754
- Prejunctional  $\alpha_2$ -adrenoceptors**,  $\alpha_2$ -Autoreceptor subclassification in rat isolated kidney by use of short trains of electrical stimulation, 108, 262
- Chloroethylclonidine: an irreversible agonist at prejunctional  $\alpha_2$ -adrenoceptors in rat vas deferens, 108, 336
- Prejunctional receptors**, Prejunctional modulation of noradrenaline release in mouse and rat vas deferens: contribution of  $P_1$ - and  $P_2$ -purinoceptors, 110, 1465
- Pressor reflex**, The action of Hoe 140 on the bradykinin-induced splenic pressor reflex of the anaesthetized cat, 110, 1317
- Presynaptic  $\alpha_2$ -adrenoceptors**, Central  $\alpha_2$ -autoreceptors: agonist dissociation constants and recovery after irreversible inactivation, 108, 370
- Presynaptic inhibition**, A novel metabotropic glutamate receptor agonist: marked depression of monosynaptic excitation in the newborn rat isolated spinal cord, 109, 1169
- Production by *R*- $\alpha$ -methylhistamine of a histamine  $H_3$  receptor-mediated decrease in basal vascular resistance in guinea-pigs, 110, 553
- Presynaptic inhibitory receptors**, Altered cardiac adrenergic neurotransmission in streptozotocin-induced diabetic rats, 109, 1276
- Presynaptic modulation**, Involvement of pertussis toxin-sensitive and -insensitive mechanisms in  $\alpha$ -adrenoceptor modulation of noradrenaline release from rat sympathetic neurones in tissue culture, 110, 281
- Prejunctional modulation of the nitrergic innervation of the canine ileocolonic junction via potassium channels, 110, 559
  - Sensory nerve-mediated relaxation of guinea-pig isolated pulmonary artery: prejunctional modulation by  $\alpha_2$ -adrenoceptor agonists but not sumatriptan, 109, 126
- Presynaptic receptors**, Effect of an intracellular calcium chelator on the regulation of electrically evoked [<sup>3</sup>H]-noradrenaline release from rat hippocampal slices, 108, 126
- Functional characterization of a 5-HT<sub>3</sub> receptor which modulates the release of 5-HT in the guinea-pig brain, 108, 13
- Primary afferent fibres**, Depression of primary afferent-evoked responses by GR71251 in the isolated spinal cord of the neonatal rat, 110, 1142
- Effect of capsazepine on the release of calcitonin gene-related peptide-like immunoreactivity (CGRP-LI) induced by low pH, capsaicin and potassium in rat soleus muscle, 110, 609
- Primary afferent neurones**, A comparison of capsazepine and ruthenium red as capsaicin antagonists in the rat isolated urinary bladder and vas deferens, 108, 801
- Procaine**, [Ca<sup>2+</sup>]<sub>i</sub>-sensitive, IP<sub>3</sub>-independent Ca<sup>2+</sup> influx in smooth muscle of rat vas deferens revealed by procaine, 110, 1353
- Competitive inhibition by procaine of carbachol-induced stimulus-secretion coupling in rat pancreatic acini, 110, 603
- Procaterol**,  $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal K<sup>+</sup>-channels in bovine trachealis muscle: studies of mechanical activity and ion fluxes, 109, 1149
- $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal K<sup>+</sup>-channels in trachealis muscle: electrophysiological and mechanical studies in guinea-pig tissue, 109, 1140
- Proendothelins**, Comparison of the cardiovascular and neural activity of endothelin-1, -2, -3 and respective proendothelins: effects of phosphoramidon and thiorphan, 110, 331
- Propafenone**, Antiarrhythmic agents act differently on the activation phase of the ACh-response in guinea-pig atrial myocytes, 108, 111
- Effects of propafenone on calcium current in guinea-pig ventricular myocytes, 108, 721
  - Effects of propafenone on calcium currents in single ventricular myocytes of guinea-pig, 109, 178
- Propofol**, Propofol stimulates nitric oxide release from cultured porcine aortic endothelial cells, 109, 6
- Propranolol**, Allopurinol and amlodipine improve coronary vasodilatation after myocardial ischaemia and reperfusion in anaesthetized dogs, 108, 342
- Demonstration of the suitability of CGP 12177 for *in vivo* studies of  $\beta$ -adrenoceptors, 109, 1101
  - Muscarinic effect of atrial natriuretic peptide on rabbit airways, 110, 804
- Prostacyclin**, Bradykinin-induced release of PGI<sub>2</sub> from aortic endothelial cell lines: responses mediated selectively by Ca<sup>2+</sup> ions or a staurosporine-sensitive kinase, 110, 411
- Differential changes of adrenoceptor- and muscarinic receptor-linked prostacyclin synthesis by the aorta and urinary bladder of the diabetic rat, 108, 1131
  - The effect of endothelins on nitric oxide and prostacyclin production from human umbilical vein, porcine aorta and bovine carotid artery endothelial cells in culture, 109, 1128
  - Effects of beraprost on the transmembrane potentials of guinea-pig ventricular muscles during normoxia and hypoxia-reoxygenation, 109, 1014
  - Mediation of endothelin-1-induced inhibition of platelet aggregation via the ET<sub>B</sub> receptor, 109, 530
  - Neuronal and endothelium-derived mediators in the modulation of the gastric microcirculation: integrity in the balance, 110, 3
  - Potentiation of aggregation and inhibition of adenylate cyclase in human platelets by prostaglandin E analogues, 108, 363
  - Roles of prostacyclin, EDRF and active oxygens in leukocyte-dependent platelet adhesion to endothelial cells induced by platelet-activating factor *in vitro*, 109, 524
  - Selective inhibition of agonist-induced but not shear stress-dependent release of endothelial autacoids by thapsigargin, 108, 100
  - Vasoreactivity and prostacyclin release in streptozotocin-diabetic rats: effects of insulin or aldose reductase inhibition, 109, 980
- Prostaglandins**, Adenylate cyclase-mediated vascular responses of rabbit aorta, mesenteric artery and skin microcirculation, 110, 633
- Bronchodilatation of guinea-pig perfused bronchioles induced by the H<sub>3</sub>-receptor for histamine: role of epithelium, 109, 960
  - Chronic kinin receptor blockade induces hypertension in deoxycorticosterone-treated rats, 108, 651
  - E-type prostaglandins enhance local oedema formation and neutrophil accumulation but suppress eosinophil accumulation in guinea-pig skin, 110, 416
  - Effect of bradykinin and prostaglandins on the release of calcitonin gene-related peptide-like immunoreactivity from the rat spinal cord *in vitro*, 108, 185
  - Effect of the platelet-activating factor antagonist, TCV-309, and the cyclo-oxygenase inhibitor, ibuprofen, on the haemodynamic changes in canine experimental endotoxic shock, 110, 1501
  - Effects of pyrogenic immunomodulators on the release of corticotrophin-releasing factor-41 and prostaglandin E<sub>2</sub> from the intact rat hypothalamus *in vitro*, 109, 88
  - Eicosanoid-induced Ca<sup>2+</sup> release and sustained contraction in Ca<sup>2+</sup>-free media are mediated by different signal transduction pathways in rat aorta, 110, 875
  - Influence of rhein anthrone on peristaltic reflex of guinea-pig isolated ileum: involvement of prostaglandins, 108, 269
  - Involvement of nitric oxide synthase in the delayed vasodilator response to ultraviolet light irradiation of rat skin *in vivo*, 109, 802
  - Leukotriene D<sub>4</sub>- and prostaglandin F<sub>2 $\alpha$</sub> -induced airflow obstruction and airway plasma exudation in guinea-pig: role of thromboxane and its receptor, 110, 127
  - Mechanisms of vasodilatation in pregnancy: studies of the role of prostaglandins and nitric-oxide in changes of vascular reactivity in the *in situ* blood perfused mesentery of pregnant rats, 109, 322
  - Potentiation of aggregation and inhibition of adenylate cyclase in human platelets by prostaglandin E analogues, 108, 363
  - Role of cyclic AMP in promoting the thromboresistance of human endothelial cells by enhancing thrombomodulin and decreasing tissue factor activities, 109, 18
  - Role of prostaglandins and nitric oxide in acute inflammatory

- reactions in guinea-pig skin, 110, 1515
- ZD1542, a potent thromboxane A<sub>2</sub> synthase inhibitor and receptor antagonist *in vitro*, 110, 1600
  - Prostaglandin E<sub>2</sub>**, Effect of tienoxolol, a new diuretic  $\beta$ -blocking agent, on urinary prostaglandin excretion in the rat, 109, 278
  - 6-Keto-Prostaglandin F<sub>1 $\alpha$</sub>** , Effect of tienoxolol, a new diuretic  $\beta$ -blocking agent, on urinary prostaglandin excretion in the rat, 109, 278
  - Prostaglandin H<sub>2</sub>**, Eicosanoid-dependence of responses of pre- but not postglomerular vessels to noradrenaline in rat isolated kidneys, 110, 235
  - Prostaglandin excretion**, Effect of tienoxolol, a new diuretic  $\beta$ -blocking agent, on urinary prostaglandin excretion in the rat, 109, 278
  - Prostanoids**, Characterization of the inhibitory prostanoid receptors on human neutrophils, 108, 1051
    - Different effects of aspirin on blood pressure of spontaneously hypertensive rats (SHR) with high and spontaneously low levels of blood pressure, 109, 900
    - Dose-dependent effects of angiotensin converting enzyme (ACE) inhibitors on glomerular prostanoid production by normotensive rats, 108, 327
    - Effects of pyrimidines on the guinea-pig coronary vasculature, 110, 1091
    - Interaction of nitric oxide and salivary gland epidermal growth factor in the modulation of rat gastric mucosal integrity, 110, 229
  - Prostanoid receptors**, *In vitro* characterization of prostanoid receptors on human myometrium at term pregnancy, 108, 501
  - Prostanoid DP receptors**, Characterization of the inhibitory prostanoid receptors on human neutrophils, 108, 1051
  - Prostanoid EP receptors**, Potentiation of aggregation and inhibition of adenylate cyclase in human platelets by prostaglandin E analogues, 108, 363
  - Prostanoid EP<sub>2</sub> receptors**, Characterization of the inhibitory prostanoid receptors on human neutrophils, 108, 1051
  - Prostanoid TP receptor antagonists**, ZD1542, a potent thromboxane A<sub>2</sub> synthase inhibitor and receptor antagonist *in vitro*, 110, 1600
  - Prostanoid release**, Endothelin-induced contraction and mediator release in human bronchus, 110, 392
    - Relative contributions of direct and indirect mechanisms mediating endothelin-induced contraction of guinea-pig trachea, 110, 955
  - Protamine**, Effects of heparin on the vasodilator action of protamine in the rabbit mesenteric artery, 109, 1247
  - Protease inhibitors**, Pathological events in experimental acute pancreatitis prevented by the bradykinin antagonist, Hoe 140, 108, 405
  - Protein extravasation**, Enhancement by endothelin-1 of microvascular permeability via the activation of ET<sub>A</sub> receptors, 109, 880
    - Nitric oxide modulates vascular permeability in the rat coronary circulation, 108, 323
    - Vascular responses to endothelin-1 following inhibition of nitric oxide synthesis in the conscious rat, 110, 1213
  - Protein kinases**, Signal transduction pathways involved in the acute potentiation of NMDA responses by 1S,3R-ACPD in rat hippocampal slices, 109, 1085
  - Protein kinase A**, Enhancement by calcitonin gene-related peptide of nicotinic receptor-operated noncontractile Ca<sup>2+</sup> mobilization at the mouse neuromuscular junction, 110, 639
    - Levromakalim may induce a voltage-independent K-current in rat portal veins by modifying the gating properties of the delayed rectifier, 110, 1037
  - Protein kinase C**, Activation of protein kinase C potentiates postsynaptic acetylcholine response at developing neuromuscular synapses, 110, 707
    - Bradykinin-induced release of PGI<sub>2</sub> from aortic endothelial cell lines: responses mediated selectively by Ca<sup>2+</sup> ions or a staurosporine-sensitive kinase, 110, 411
    - Contractile and relaxant effects of phorbol ester in the intestinal smooth muscle of guinea-pig taenia caeci, 109, 229
    - Different pathways of calcium sensitization activated by receptor agonists and phorbol esters in vascular smooth muscle, 110, 1527
    - Effects of calyculin A on tension and myosin phosphorylation in skinned smooth muscle of the rabbit mesenteric artery, 109, 703
    - Eicosanoid-induced Ca<sup>2+</sup> release and sustained contraction in Ca<sup>2+</sup>-free media are mediated by different signal transduction pathways in rat aorta, 110, 875
    - Enhancement by calcitonin gene-related peptide of nicotinic receptor-operated noncontractile Ca<sup>2+</sup> mobilization at the mouse neuromuscular junction, 110, 639
  - Evidence for a nucleotide receptor on adrenal medullary endothelial cells linked to phospholipase C and phospholipase D, 108, 1031
  - Evidence that M<sub>1</sub> muscarinic receptors enhance noradrenaline release in mouse atria by activating protein kinase C, 110, 910
  - Extracellular ATP and UTP activation of phospholipase D is mediated by protein kinase C- $\epsilon$  in rat renal mesangial cells, 110, 847
  - Homologous and heterologous desensitization of histamine H<sub>1</sub>- and ATP-receptors in the smooth muscle cell line, DDT<sub>1</sub>MF-2: the role of protein kinase C, 110, 1449
  - Levromakalim may induce a voltage-independent K-current in rat portal veins by modifying the gating properties of the delayed rectifier, 110, 1037
  - Protein kinase C inhibitors enhance endothelin-1 and attenuate vasopressin and angiotensin II evoked [Ca<sup>2+</sup>]<sub>i</sub> elevation in the rat cardiomyocyte, 108, 6
  - Protein kinase regulation of muscarinic receptor signalling in colonic smooth muscle, 108, 613
  - Role of extracellular and intracellular sources of Ca<sup>2+</sup> in sarafotoxin S6b-induced contraction of strips of the rat aorta, 108, 30
  - Protein kinase C inhibitors**, Potentiation of miniature endplate potential frequency by ATP in *Xenopus* tadpoles, 108, 236
  - Protein kinase activation**, Potentiation of miniature endplate potential frequency by ATP in *Xenopus* tadpoles, 108, 236
  - Protein phosphorylation**, Mechanism of staurosporine-induced decrease in acetylcholine receptor recovery from desensitization, 108, 741
    - Necessity of divalent cations for recovery from carbachol-induced nicotinic acetylcholine receptor inactivation at snake twitch fibre endplates, 110, 889
  - Protein synthesis**, Immediate inhibitory effect of methylprednisolone suleptanate (U-67590A) on antigen-induced cutaneous and airway anaphylactic responses in guinea-pigs, 108, 604
  - Proteinases**, Stimulated eosinophils and proteinases augment the transepithelial flux of albumin in bovine bronchial mucosa, 110, 840
  - Protons**, Effect of capsazepine on the release of calcitonin gene-related peptide-like immunoreactivity (CGRP-LI) induced by low pH, capsaicin and potassium in rat soleus muscle, 110, 609
  - Proximal colon, guinea-pig**, Tachykinin NK<sub>1</sub>, but not NK<sub>2</sub>, receptors mediate non-cholinergic excitatory junction potentials in the circular muscle of guinea-pig colon, 110, 795
  - Psychotropic drugs**, Chronic treatment with the monoamine oxidase inhibitors clorgyline and pargyline down-regulates non-adrenoceptor [<sup>3</sup>H]-idazoxan binding sites in the rat brain, 108, 597
    - Differential inhibition of a transient K<sup>+</sup> current by chlorpromazine and 4-aminopyridine in neurones of the rat dorsal root ganglia, 109, 1239
  - Pulmonary circulation**, Pulmonary effects of endogenous and exogenous nitric oxide in the pig: relation to cigarette smoke inhalation, 110, 739
  - Pulmonary clearance**, Regional haemodynamic responses to intravenous and intraarterial endothelin-1 and big endothelin-1 in conscious rats, 110, 1532
  - Pulmonary hypertension**, Monocrotaline pyrrole-induced changes in angiotensin-converting enzyme activity of cultured pulmonary artery endothelial cells, 110, 597
    - Protection by oestradiol against the development of cardiovascular changes associated with monocrotaline pulmonary hypertension in rats, 110, 719
  - Pulmonary vascular bed**, Blockade by glibenclamide of the flow-evoked endothelial release of ATP that contributes to vasodilatation in the pulmonary vascular bed of the rat, 109, 466
  - Purinergic**, Two distinct cytosolic calcium responses to extracellular ATP in rat parotid acinar cells, 108, 453
  - Purinergic transmission**, Chloroethylclonidine: an irreversible agonist at prejunctional  $\alpha_2$ -adrenoceptors in rat vas deferens, 108, 336
    - Effect of opioid receptor subtype-selective agonists on purinergic and adrenergic components of neurogenic contractions of mouse vas deferens, 108, 443
    - Functional importance of cholinergic and purinergic neurotransmission for micturition contraction in the normal, unanaesthetized rat, 109, 473
  - Purines**, Characterization of the adenosine receptors of the rat superior cervical ganglion, 110, 854
    - Effects of pyrimidines on the guinea-pig coronary vasculature, 110, 1091
  - Purinoceptors**, Characterization of the effects of adenosine 5'-[ $\beta$ -

- thio]diphosphate in rat liver, 108, 663
- Desensitization of the  $P_2$ -purinoceptors on the rat colon muscularis mucosae, 110, 501
  - Effects of analogues of adenine nucleotides on increases in intracellular calcium mediated by  $P_{2U}$ -purinoceptors on human blood platelets, 108, 728
  - Effects of ATP on cultured smooth muscle cells from rat aorta, 108, 638
  - Effects of excitatory neurotransmitters on  $Ca^{2+}$  channel current in smooth muscle cells isolated from guinea-pig urinary bladder, 110, 317
  - Evidence that a form of ATP uncomplexed with divalent cations is the ligand of  $P_{2y}$  and nucleotide/ $P_{2u}$  receptors on aortic endothelial cells, 109, 967
  - Membrane current responses to externally-applied ATP in the longitudinal muscle of the chicken rectum, 110, 87
  - Vascular actions of purines in the foetal circulation of the human placenta, 110, 454
- Purinoceptor  $A_1$  subtypes**, Characterization of the adenosine receptors of the rat superior cervical ganglion, 110, 854
- Purinoceptor  $A_2$  subtypes**, Characterization of the adenosine receptors of the rat superior cervical ganglion, 110, 854
- Purinoceptor  $P_1$  subtypes**, Action of purine and pyrimidine nucleotides on the rat superior cervical ganglion, 110, 1297
- Characterization of  $P_2$ -purinoceptor mediated cyclic AMP formation in mouse C2C12 myotubes, 110, 133
  - Characterization and ontogeny of  $P_1$ -purinoceptors on rat vas deferens, 108, 754
  - Functional characterization of three adenosine receptor types, 109, 693
  - Prejunctional modulation of noradrenaline release in mouse and rat vas deferens: contribution of  $P_1$ - and  $P_2$ -purinoceptors, 110, 1465
- Purinoceptor  $P_2$  subtypes**, Action of purine and pyrimidine nucleotides on the rat superior cervical ganglion, 110, 1297
- Activation of the phospholipase C pathway by ATP is mediated exclusively through nucleotide type  $P_2$ -purinoceptors in C2C12 myotubes, 110, 747
  - $Ap_4A$  and ADP- $\beta$ -S binding to  $P_2$  purinoceptors present on rat brain synaptic terminals, 108, 1094
  - ATP induced-relaxation in the mouse bladder smooth muscle, 108, 749
  - Blockade of adenosine receptors unmasks a stimulatory effect of ATP on cardiac contractility, 109, 1268
  - Characterization of  $P_2$ -purinoceptor mediated cyclic AMP formation in mouse C2C12 myotubes, 110, 133
  - Characterization of purinoceptors mediating depolarization of rat isolated vagus nerve, 110, 1055
  - Dual contractile effects of ATP released by field stimulation revealed by effects of  $\alpha,\beta$ -methylene ATP and suramin in rat tail artery, 110, 1421
  - Effect of extracellular ATP on contraction, cytosolic calcium activity, membrane voltage and ion currents of rat mesangial cells in primary culture, 109, 953
  - Evidence for a nucleotide receptor on adrenal medullary endothelial cells linked to phospholipase C and phospholipase D, 108, 1031
  - Increases in intracellular calcium via activation of an endogenous  $P_2$ -purinoceptor in cultured CHO-K1 cells, 110, 1305
  - Post-receptor pathway of the ATP-induced relaxation in smooth muscle of the mouse vas deferens, 110, 326
  - Prejunctional modulation of noradrenaline release in mouse and rat vas deferens: contribution of  $P_1$ - and  $P_2$ -purinoceptors, 110, 1465
  - Quantitative analysis of the agonist and antagonist actions of some ATP analogues at  $P_{2X}$ -purinoceptors in the rabbit ear artery, 108, 490
  - The regulation of aortic endothelial cells by purines and pyrimidines involves co-existing  $P_{2y}$ -purinoceptors and nucleotide receptors linked to phospholipase C, 108, 689
  - Stimulation of insulin secretion and improvement of glucose tolerance in rat and dog by the  $P_{2y}$ -purinoceptor agonist, adenosine-5'-O-(2-thiodiphosphate), 109, 183
  - Stimulation of lumbar sympathetic nerves evokes contractions of cat colon circular muscle mediated by ATP and noradrenaline, 110, 1260
  - Two distinct cytosolic calcium responses to extracellular ATP in rat parotid acinar cells, 108, 453
- Purinoceptor  $P_{2X}$  subtypes**, PPADS selectively antagonizes  $P_{2X}$ -purinoceptor-mediated responses in the rabbit urinary bladder, 110, 1491

- Purinoceptor  $P_3$  subtypes**, Prejunctional modulation of noradrenaline release in mouse and rat vas deferens: contribution of  $P_1$ - and  $P_2$ -purinoceptors, 110, 1465
- Purkinje cells, rat cerebellum**, Differential properties of type I and type II benzodiazepine receptors in mammalian CNS neurones, 109, 819
- Pylorus**, Regulation of neural responses in the canine pyloric sphincter by opioids, 108, 1024
- Pyrimidines**, Action of purine and pyrimidine nucleotides on the rat superior cervical ganglion, 110, 1297
- Effects of pyrimidines on the guinea-pig coronary vasculature, 110, 1091
- Pyrimidinoreceptors**, Desensitization of the  $P_2$ -purinoceptors on the rat colon muscularis mucosae, 110, 501
- 1-(2-Pyrimidinyl)-piperazine (1-PP)**, The effects of  $\alpha_2$ -adrenoceptor antagonists on the inhibition of 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane (DOI)-induced head shakes by 5-HT<sub>1A</sub> receptor agonists in the mouse, 109, 1046
- Pyrogen**, Effects of pyrogenic immunomodulators on the release of corticotrophin-releasing factor-41 and prostaglandin  $E_2$  from the intact rat hypothalamus *in vitro*, 109, 88
- Pyruvate dehydrogenase**, Protective effects of ranolazine in guinea-pig hearts during low-flow ischaemia and their association with increases in active pyruvate dehydrogenase, 109, 748

## Q

- Quinapril**, Quinapril treatment and arterial smooth muscle responses in spontaneously hypertensive rats, 108, 980
- Quinidine**, Effects of hyperkalaemia on the depression of maximum rate of depolarization by class I antiarrhythmic agents in guinea-pig myocardium, 108, 255
- Quinoxalinediones**, A comparison of the actions of agonists and antagonists at non-NMDA receptors of C fibres and motoneurons of the immature rat spinal cord *in vitro*, 108, 179
- Quinpirole**, Enhancement of  $D_2$  receptor agonist-induced inhibition by  $D_1$  receptor agonist in the ventral tegmental area, 110, 713
- A mechanism underlying dopamine  $D_1$  and  $D_2$  receptor-mediated inhibition of dopaminergic neurones in the ventral tegmental area *in vitro*, 109, 933
- [ $^3H$ ]-Quinuclidinyl benzilate**, PPADS selectively antagonizes  $P_{2X}$ -purinoceptor-mediated responses in the rabbit urinary bladder, 110, 1491
- Quisqualic acid**, Anion transport blockers inhibit DL-2-amino-4-phosphonobutyrate responses induced by quisqualate in the rat cerebral cortex, 109, 449
- Excitatory amino acid receptor-stimulated phosphoinositide turnover in primary cerebrocortical cultures, 109, 379
  - Pharmacological characterization of the metabotropic glutamate receptor inhibiting D-[ $^3H$ ]-aspartate output in rat striatum, 110, 1407
  - Selective reduction of *N*-methyl-D-aspartate-evoked responses by 1,3-di(2-tolyl)guanidine in mouse and rat cultured hippocampal pyramidal neurones, 109, 1196

## R

- R56865**, R56865 inhibits catecholamine release from bovine chromaffin cells by blocking calcium channels, 110, 1149
- R75231**, The antiarrhythmic effects of the nucleoside transporter inhibitor, R75231, in anaesthetized pigs, 109, 592
- Radioligand binding**, Characteristics of the binding of [ $^3H$ ]-GR32191 to the thromboxane (TP-) receptor of human platelets, 110, 539
- Characterization of the binding of [ $^3H$ ]-L-NG-nitro-arginine in rat brain, 109, 287
  - Development of a radioligand binding assay for 5-HT<sub>4</sub> receptors in guinea-pig and rat brain, 109, 618
  - Effects of 5-HT-receptor and  $\alpha_2$ -adrenoceptor ligands on the haemodynamic response to acute central hypovolaemia in conscious rabbits, 109, 37
  - Identification of both NK<sub>1</sub> and NK<sub>2</sub> receptors in guinea-pig airways, 110, 693
  - Identification of a novel calcium antagonist binding site in rat brain by SR 33557, 108, 93
  - Inositol 1,4,5-trisphosphate and inositol 1,3,4,5-tetrakisphosphate binding sites in smooth muscle, 109, 905

- Localization and characterization of neuropeptide Y binding sites in porcine and human colon, 108, 304
- Reduction in the number of thromboxane receptors on human platelets after exposure to GR32191, 110, 548
- Ramiprilat**, Ramiprilat increases bradykinin outflow from isolated hearts of rat, 108, 293
- Ranolazine**, Protective effects of ranolazine in guinea-pig hearts during low-flow ischaemia and their association with increases in active pyruvate dehydrogenase, 109, 748
- Rapamycin**, Inhibition by rapamycin of leukocyte migration and bronchial hyperreactivity induced by injection of Sephadex beads to guinea-pigs, 110, 1381
- Rapid-eye-movement sleep**, Centrally administered ouabain aggravates rapid-eye-movement-sleep-related bradyarrhythmias in freely moving rats, 110, 253
- Rauwolscine**, Chloroethylclonidine: an irreversible agonist at prejunctional  $\alpha_2$ -adrenoceptors in rat vas deferens, 108, 336
- RB 101**, Modulation of opioid antinociception by CCK at the supraspinal level: evidence of regulatory mechanisms between CCK and enkephalin systems in the control of pain, 109, 1064
- Reactive blue 2**, Two distinct cytosolic calcium responses to extracellular ATP in rat parotid acinar cells, 108, 453
- Reactive hyperaemia**, The effect of  $N^G$ -nitro-L-arginine methyl ester upon basal blood flow and endothelium-dependent vasodilatation in the dog hindlimb, 108, 763
- Reactive oxygen species**, Arterial endothelial barrier dysfunction: actions of homocysteine and the hypoxanthine-xanthine oxidase free radical generating system, 108, 920
- Receptor autoradiography**, Inhibition of [ $^3$ H]-(-)-MK 801 binding to rat brain sections by CPP and 7-chlorokynurenic acid: an autoradiographic analysis, 108, 577
- Receptor binding**, Characterization of propranolol-resistant (-)-[ $^{125}$ I]-cyanopindolol binding sites in rat soleus muscle, 109, 344
- Receptor classification**, Quantitative analysis of the agonist and antagonist actions of some ATP analogues at  $P_{2X}$ -purinoceptors in the rabbit ear artery, 108, 490
- Receptor down-regulation**, Reduction in the number of thromboxane receptors on human platelets after exposure to GR32191, 110, 548
- Receptor inactivation**, Mediation by the same muscarinic receptor subtype of phasic and tonic contractile activities in the rat isolated portal vein, 108, 132
- Receptor protection**, Selective inactivation of muscarinic  $M_2$  and  $M_3$  receptors in guinea-pig ileum and atria *in vitro*, 109, 946
- Receptor reserve**, Central  $\alpha_2$ -autoreceptors: agonist dissociation constants and recovery after irreversible inactivation, 108, 370
- Mediation by the same muscarinic receptor subtype of phasic and tonic contractile activities in the rat isolated portal vein, 108, 132
- Receptor theory**, Estimation of competitive antagonist affinity from functional inhibition curves using the Gaddum, Schild and Cheng-Prusoff equations, 109, 1110
- Receptor turnover**, Acceleration by chronic treatment with clorgyline of the turnover of brain  $\alpha_2$ -adrenoceptors in normotensive but not in spontaneously hypertensive rats, 110, 99
- Recombinant neutral endopeptidase**, Metabolism of endothelin-1 and big endothelin-1 by recombinant neutral endopeptidase EC.3.4.24.11, 109, 1024
- Recombinant receptors**, The influence of the  $\gamma_{2L}$  subunit on the modulation of responses to GABA $_A$  receptor activation, 108, 711
- Rectum, chicken**, Membrane current responses to externally-applied ATP in the longitudinal muscle of the chicken rectum, 110, 87
- Regional haemodynamics**, Differential effects of captopril on regional haemodynamic responses to angiotensin I and bradykinin in conscious rats, 108, 769
- Relaxation**, Effects of  $\beta$ -adrenoceptor agonists in human bronchial smooth muscle, 110, 1112
- Post-receptor pathway of the ATP-induced relaxation in smooth muscle of the mouse vas deferens, 110, 326
- Renal failure**, Comparison between carvedilol and captopril in rats with partial ablation-induced chronic renal failure, 109, 581
- Renal function**, Chronic kinin receptor blockade induces hypertension in deoxycorticosterone-treated rats, 108, 651
- Role of angiotensin AT $_1$  and AT $_2$  receptors in mediating the renal effects of angiotensin II in the anaesthetized dog, 109, 148
- Renal hypertensive rats**, Pharmacological profile of valsartan: a potent, orally active, nonpeptide antagonist of the angiotensin II AT $_1$ -receptor subtype, 110, 761
- Renal ischaemia**, Support of renal blood flow after ischaemic-reperfusion injury by endogenous formation of nitric oxide and of cyclo-oxygenase vasodilator metabolites, 109, 188
- Renal mesangial cells**, Extracellular ATP and UTP activation of phospholipase D is mediated by protein kinase C- $\epsilon$  in rat renal mesangial cells, 110, 847
- Renal transport**, Renal selective *N*-acetyl-L- $\gamma$ -glutamyl prodrugs: studies on the selectivity of some model prodrugs, 108, 204
- Renal vasculature**, Chloride anion concentration as a determinant of renal vascular responsiveness to vasoconstrictor agents, 108, 106
- Renin-angiotensin systems**, Comparison of the effects of EXP3174, an angiotensin II antagonist and enalaprilat on myocardial infarct size in anaesthetized dogs, 110, 969
- Renzapride**, Effects of cholinergic and 5-hydroxytryptamine $_1$  receptor antagonism on erythromycin-induced canine intestinal motility disruption and emesis, 108, 44
- Reperfusion**, Allopurinol and amlodipine improve coronary vasodilatation after myocardial ischaemia and reperfusion in anaesthetized dogs, 108, 342
- Na $^+$ /H $^+$  exchange inhibitors reverse lactate-induced depression in postischaemic ventricular recovery, 108, 50
- Selective  $I_K$  blockade as an antiarrhythmic mechanism: effects of UK66,914 on ischaemia and reperfusion arrhythmias in rat and rabbit hearts, 108, 139
- Resiniferatoxin**, Capsaicin-induced relaxation in the rat isolated external urethral sphincter: characterization of the vanilloid receptor and mediation by CGRP, 110, 989
- Resistance arteries**, Relaxing actions of corticotropin-releasing factor on rat resistance arteries, 108, 941
- Resistance arteries, rat**,  $\beta$ -Adrenoceptor agonist mediated relaxation of rat isolated resistance arteries: a role for the endothelium and nitric oxide, 108, 631
- Resistance vessels, mesenteric**, Nitric oxide-mediated changes in vascular reactivity in pregnancy in spontaneously hypertensive rats, 110, 1184
- Resistance vessels, pulmonary**, Effects of atrial natriuretic peptide and nitroprusside on isolated pulmonary resistance and conduit arteries from rats with pulmonary hypertension, 110, 1363
- Respiratory dynamics**, Comparison of the airways relaxant and hypotensive potencies of the potassium channel activators BRL 55834 and levcromakalim (BRL 38227) *in vivo* in guinea-pigs and rats, 109, 1133
- Respiratory resistance**, Muscarinic effect of atrial natriuretic peptide on rabbit airways, 110, 804
- Retractor penis muscle**, Actions and interactions of  $N^G$ -substituted analogues of L-arginine on NANC neurotransmission in the bovine retractor penis and rat anococcygeus muscles, 108, 242
- Reverse passive Arthus (RPA) reaction**, Role of oxygen radicals and arachidonic acid metabolites in the reverse passive Arthus reaction and carrageenin paw oedema in the rat, 110, 896
- Role of platelet-activating factor (PAF) in platelet accumulation in rabbit skin: effect of the novel long-acting PAF antagonist, UK-74,505, 109, 234
- Rhein anthrone**, Influence of rehin anthrone on peristaltic reflex of guinea-pig isolated ileum: involvement of prostaglandins, 108, 269
- Rheology**, Effect of activation on adhesion of flowing neutrophils to cultured endothelium: time course and inhibition by a calcium channel blocker (nitrendipine), 110, 1630
- Rheumatoid arthritis**, Stimulation of angiogenesis by substance P and interleukin-1 in the rat and its inhibition by NK $_1$  or interleukin-1 receptor antagonists, 110, 43
- mRNA translation**, Thiocyanate ions selectively antagonize AMPA-evoked responses in *Xenopus laevis* oocytes microinjected with rat brain mRNA, 109, 779
- Ro 15-4513**, Similar effects of ethanol and flumazenil on acquisition of a shuttle-box avoidance response during withdrawal from chronic ethanol treatment, 110, 753
- Ro 20-1724**, The effect of cyclic AMP and cyclic GMP phosphodiesterase inhibitors on the superoxide burst of guinea-pig peritoneal macrophages, 108, 876
- Ro 31-6930**, Effects of potassium channel openers and their antagonists on rat locus coeruleus neurones, 109, 308
- Ro 31-8220**, Homologous and heterologous desensitization of histamine H $_1$ - and ATP-receptors in the smooth muscle cell line, DDT $_1$ MF-2: the role of protein kinase C, 110, 1449
- Rolipram**, Comparison of the effects of selective inhibitors of

- phosphodiesterase types III and IV in airway smooth muscle with differing  $\beta$ -adrenoceptor subtypes, 108, 57
- The effect of cyclic AMP and cyclic GMP phosphodiesterase inhibitors on the superoxide burst of guinea-pig peritoneal macrophages, 108, 876
  - Effects of rolipram and siguazodan on the human isolated bronchus and their interaction with isoprenaline and sodium nitroprusside, 109, 774
  - Existence of rolipram-sensitive phosphodiesterase in rat megakaryocyte, 109, 1020
  - Investigation into the role of phosphodiesterase IV in broncho-relaxation, including studies with human bronchus, 108, 562
- Root ganglia, dorsal**, Differential inhibition of a transient  $K^+$  current by chlorpromazine and 4-aminopyridine in neurones of the rat dorsal root ganglia, 109, 1239
- Rotarod**, Attenuation of reperfusion hyperalgesia in the rat by systemic administration of benzodiazepines, 110, 1067
- RP 49356**, Effects of rubidium on responses to potassium channel openers in rat isolated aorta, 109, 925
- RP 67580**, Antinociceptive activity of NK<sub>1</sub> receptor antagonists: non-specific effects of racemic RP67580, 110, 1607
- Higher potency of RP 67580, in the mouse and the rat compared with other nonpeptide and peptide tachykinin NK<sub>1</sub> antagonists, 108, 793
  - Non-peptide antagonists, CP-96,345 and RP 67580, distinguish species variants in tachykinin NK<sub>1</sub> receptors, 108, 223
  - The non-peptide neurokinin<sub>1</sub> receptor antagonist, RP 67580, blocks neurogenic plasma extravasation in the dura mater of rats, 108, 11
- RS-15385-197**, Modulation of central noradrenergic function by RS-15385-197, 108, 526
- The pharmacology of RS-15385-197, a potent and selective  $\alpha_2$ -adrenoceptor antagonist, 108, 516
- [<sup>3</sup>H]-RS-15385-197**, Sodium modulation of <sup>3</sup>H-agonist and <sup>3</sup>H-antagonist binding to  $\alpha_2$ -adrenoceptor subtypes, 109, 371
- RS-23597-190**, RS 23597-190: a potent and selective 5-HT<sub>4</sub> receptor antagonist, 110, 119
- RU486**, Glucocorticoid - and non-glucocorticoid induction of lipocortins (annexins) 1 and 2 in rat peritoneal leucocytes *in vivo*, 108, 66
- RU24969**, Evidence that RU 24969-induced locomotor activity in C57/B1/6 mice is specifically mediated by the 5-HT<sub>1B</sub> receptor, 110, 1621
- 5-HT<sub>1B</sub> receptors mediate potent contractile responses to 5-HT in rat caudal artery, 109, 609
- Rubidium**, Effects of rubidium on responses to potassium channel openers in rat isolated aorta, 109, 925
- Rubidium efflux**,  $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal  $K^+$ -channels in bovine trachealis muscle: studies of mechanical activity and ion fluxes, 109, 1149
- Charybdotoxin-sensitive  $K^+$  channels regulate the myogenic tone in the resting state of arteries from spontaneously hypertensive rats, 108, 214
- Ruthenium red**, A comparison of capsazepine and ruthenium red as capsaicin antagonists in the rat isolated urinary bladder and vas deferens, 108, 801
- Effects of ruthenium red and capsazepine on C-fibres in the rabbit iris, 110, 1073
  - Profile of capsaicin-induced mouse ear oedema as neurogenic inflammatory model: comparison with arachidonic acid-induced ear oedema, 110, 1614
  - Ruthenium red, but not capsazepine reduces plasma extravasation by cigarette smoke in rat airways, 108, 646
- RX-801080**, Antagonism of the stimulatory effects of efaroxan and glibenclamide in rat pancreatic islets by the imidazoline, RX801080, 110, 1017
- RX-821001**, Stimulation of insulin secretion by imidazoline compounds is not due to interaction with non-adrenoceptor idazoxan binding sites, 108, 312
- [<sup>3</sup>H]-RX-821002**, Acceleration by chronic treatment with clorgyline of the turnover of brain  $\alpha_2$ -adrenoceptors in normotensive but not in spontaneously hypertensive rats, 110, 99
- [<sup>3</sup>H]-Idazoxan binding to rabbit cerebral cortex recognises multiple imidazoline I<sub>2</sub>-type receptors: pharmacological characterization and relationship to monoamine oxidase, 109, 625
- Ryanodine**, Effects of nifedipine and ryanodine on adrenergic neurogenic contractions of rat vas deferens: evidence for a pulse-to-pulse change in  $Ca^{2+}$  sources, 108, 1062
- S**
- Salbutamol**,  $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal  $K^+$ -channels in bovine trachealis muscle: studies of mechanical activity and ion fluxes, 109, 1149
- $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal  $K^+$ -channels in trachealis muscle: electrophysiological and mechanical studies in guinea-pig tissue, 109, 1140
  - Comparison of the anti-inflammatory properties of formoterol, salbutamol and salmeterol in guinea-pig skin and lung, 110, 613
  - Effects of rolipram and siguazodan on the human isolated bronchus and their interaction with isoprenaline and sodium nitroprusside, 109, 774
  - Enhancement of airway reactivity to histamine by isoprenaline and related  $\beta$ -adrenoceptor agonists in the guinea-pig, 108, 1016
  - Investigations into factors determining the duration of action of the  $\beta_2$ -adrenoceptor agonist, salmeterol, 108, 507
- Salivary glands**, Interaction of nitric oxide and salivary gland epidermal growth factor in the modulation of rat gastric mucosal integrity, 110, 229
- Salmeterol**,  $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal  $K^+$ -channels in bovine trachealis muscle: studies of mechanical activity and ion fluxes, 109, 1149
- $\beta$ -Adrenoceptor subtypes and the opening of plasmalemmal  $K^+$ -channels in trachealis muscle: electrophysiological and mechanical studies in guinea-pig tissue, 109, 1140
  - Comparison of the anti-inflammatory properties of formoterol, salbutamol and salmeterol in guinea-pig skin and lung, 110, 613
  - Effects of  $\beta$ -adrenoceptor agonists in human bronchial smooth muscle, 110, 1112
  - Investigations into factors determining the duration of action of the  $\beta_2$ -adrenoceptor agonist, salmeterol, 108, 507
  - Salmeterol, a long-acting  $\beta_2$ -adrenoceptor agonist mediating cyclic AMP accumulation in a neuronal cell line, 110, 619
- Saphenous nerve**, Effect of a calcitonin gene-related peptide antagonist (CGRP<sub>8-37</sub>) on skin vasodilatation and oedema induced by stimulation of the rat saphenous nerve, 110, 772
- Sarafotoxin S6c**, Endothelin-1 (ET-1)-induced contraction in rat isolated trachea: involvement of ET<sub>A</sub> and ET<sub>B</sub> receptors and multiple signal transduction systems, 110, 435
- Sarafotoxins**, Differential effects of BQ-123 against endothelin-1 and endothelin-3 on the rat vas deferens: evidence for an atypical endothelin receptor, 109, 736
- Endothelin receptor subtypes in human and guinea-pig pulmonary tissues, 110, 1175
  - Endothelin receptors mediating contraction in goat cerebral arteries, 109, 826
  - Endothelin-1 does not mediate hypoxic vasoconstriction in canine isolated blood vessels: effect of BQ-123, 108, 418
  - Incomplete inhibition of the pressor effects of endothelin-1 and related peptides in the anaesthetized rat with BQ-123 provides evidence for more than one vasoconstrictor receptor, 108, 557
  - Mediation via different receptors of the vasoconstrictor effects of endothelins and sarafotoxins in the systemic circulation and renal vasculature of the anaesthetized rat, 108, 776
  - Role of extracellular and intracellular sources of  $Ca^{2+}$  in sarafotoxin S6b-induced contraction of strips of the rat aorta, 108, 30
- SarA1a<sup>8</sup>-angiotensin II**, Binding of angiotensin antagonists to rat liver and brain membranes measured *ex vivo*, 109, 760
- Saralasin**, Pharmacological characteristics of the positive inotropic effect of angiotensin II in the rabbit ventricular myocardium, 108, 999
- Sarcoplasmic reticulum**, Cyclopiazonic acid, an inhibitor of  $Ca^{2+}$ -ATPase in sarcoplasmic reticulum, increases excitability in ileal smooth muscle, 110, 565
- Digoxin activates sarcoplasmic reticulum  $Ca^{2+}$ -release channels: a possible role in cardiac inotropy, 108, 1043
  - The superficial buffer barrier in venous smooth muscle: sarcoplasmic reticulum refilling and unloading, 109, 336
  - Time-related increases in cardiac concentrations of doxorubicinol could interact with doxorubicin to depress myocardial contractile function, 110, 975
- Satiety**, Reciprocal interaction of 5-hydroxytryptamine and cholecystokinin in the control of feeding patterns in rats, 109, 491
- SB 203186**, Characterization of the 5-HT<sub>4</sub> receptor mediating

- tachycardia in piglet isolated right atrium, 110, 1023
- SCA40**, Cardiovascular effects of SCA40, a novel potassium channel opener, in rats, 110, 1031
- Evaluation of the relaxant effects of SCA40, a novel charybdotoxin-sensitive potassium channel opener, in guinea-pig isolated trachealis, 108, 622
- SCH 23390**, Enhancement of D<sub>2</sub> receptor agonist-induced inhibition by D<sub>1</sub> receptor agonist in the ventral tegmental area, 110, 713
- Scoparone**, Protection by scoparone against the alterations of plasma lipoproteins, vascular morphology and vascular reactivity in hyperlipidaemic diabetic rabbit, 110, 1508
- Scopolamine**,  $\alpha$ -Sialyl cholesterol reverses AF64A-induced deficit in passive avoidance response and depletion of hippocampal acetylcholine in mice, 108, 387
- SDZ 205,557**, The action of SDZ 205,557 at 5-hydroxytryptamine (5-HT<sub>1</sub> and 5-HT<sub>2</sub>) receptors, 108, 376
- Characterization of the 5-HT<sub>1</sub> receptor mediating tachycardia in piglet isolated right atrium, 110, 1023
  - The guinea-pig distal colon—a sensitive preparation for the investigation of 5-HT<sub>1</sub> receptor-mediated contractions, 110, 1593
  - HT<sub>1</sub> receptor mediated facilitation of the emptying phase of the peristaltic reflex in the guinea-pig isolated ileum, 110, 1572
- SDZ 216,525**, The novel 5-HT<sub>1A</sub> receptor antagonist, SDZ 216-525, decreases 5-HT release in rat hippocampus *in vivo*, 109, 699
- Secretory leukocyte proteinase inhibitors (SLPI)**, Inhibition by recombinant SLPI and half-SLPI (Asn<sup>55</sup>-Ala<sup>107</sup>) of elastase and cathepsin G activities: consequence for neutrophil-platelet cooperation, 108, 1100
- Seglitide**, Antagonist effects of seglitide (MK 678) at somatostatin receptors in guinea-pig isolated right atria, 109, 898
- Self administration**, 5-HT<sub>2</sub> antagonists reduce morphine self-administration in rats, 110, 1341
- Sensitized guinea-pigs**, Interference of a neutrophil recruitment inhibitory factor upon the accumulation of inflammatory cells and airway hyperreactivity in sensitized guinea-pigs after intranasal antigen challenge, 108, 538
- Sensory afferents**, Impaired sensory-motor nerve function in the isolated mesenteric arterial bed of streptozotocin-diabetic and ganglioside-treated streptozotocin-diabetic rats, 110, 1105
- Sensory nerves**, Effects of capsaicin and 5-HT<sub>2</sub> antagonists on 5-hydroxytryptamine-evoked release of calcitonin gene-related peptide in the guinea-pig heart, 108, 431
- Regulation of NANC neural bronchoconstriction *in vivo* in the guinea-pig: involvement of nitric oxide, 108, 228
  - Ruthenium red, but not capsazepine reduces plasma extravasation by cigarette smoke in rat airways, 108, 646
  - Sensory nerve-mediated relaxation of guinea-pig isolated pulmonary artery: prejunctional modulation by  $\alpha_2$ -adrenoceptor agonists but not sumatriptan, 109, 126
  - Tachykinin receptors mediating responses to sensory nerve stimulation and exogenous tachykinins and analogues in the rabbit isolated iris sphincter, 109, 1008
- Sensory neuropeptides**, Neuronal and endothelium-derived mediators in the modulation of the gastric microcirculation: integrity in the balance, 110, 3
- Sephadex beads**, Inhibition by rapamycin of leukocyte migration and bronchial hyperreactivity induced by injection of Sephadex beads to guinea-pigs, 110, 1381
- Septic shock**, Dependence of endotoxin-induced vascular hyporeactivity on extracellular L-arginine, 108, 38
- Sertraline**, The effects of single and repeated anorectic doses of 5-hydroxytryptamine uptake inhibitors on indole levels in rat brain, 110, 355
- Shear stress**, Selective inhibition of agonist-induced but not shear stress-dependent release of endothelial autacoids by thapsigargin, 108, 100
- Shock**, Role of neuronal and vascular Ca<sup>2+</sup>-channels in the ACTH-induced reversal of haemorrhagic shock, 109, 645
- Short-circuit currents**, Evidence for the involvement of a 5-HT<sub>2</sub> receptor in the secretory response of human small intestine to 5-HT, 110, 927
- RS 23597-190: a potent and selective 5-HT<sub>2</sub> receptor antagonist, 110, 119
- Shuttle-box avoidance**, Similar effects of ethanol and flumazenil on acquisition of a shuttle-box avoidance response during withdrawal from chronic ethanol treatment, 110, 753
- $\alpha$ -Sialyl cholesterol**,  $\alpha$ -Sialyl cholesterol reverses AF64A-induced deficit in passive avoidance response and depletion of hippocampal acetylcholine in mice, 108, 387
- Sigma sites**, Selective reduction of N-methyl-D-aspartate-evoked responses by 1,3-di(2-tolyl)guanidine in mouse and rat cultured hippocampal pyramidal neurones, 109, 1196
- Signal transduction**, Dual effects of chlorobutanol on secretory response and intracellular Ca<sup>2+</sup> dynamics in isolated pancreatic acini of the rat, 109, 685
- Leukotriene D<sub>4</sub> receptors are not negatively coupled to adenylyl cyclase in guinea-pig lung parenchyma, 108, 824
  - Novel regulation of muscarinic receptors and their coupling with G proteins in smooth muscle: transient resensitization during desensitizing process, 109, 330
  - Vascular mode of action of kinin B<sub>1</sub> receptors and development of a cellular model for the investigation of these receptors, 109, 1254
- Siguazodan**, Comparison of the effects of selective inhibitors of phosphodiesterase types III and IV in airway smooth muscle with differing  $\beta$ -adrenoceptor subtypes, 108, 57
- Effects of rolipram and siguazodan on the human isolated bronchus and their interaction with isoprenaline and sodium nitroprusside, 109, 774
- SIN-1**, Inhibition by nitric oxide-donors of human polymorphonuclear leucocyte functions, 109, 852
- Single channels**, Mechanism of staurosporine-induced decrease in acetylcholine receptor recovery from desensitization, 108, 741
- Necessity of divalent cations for recovery from carbachol-induced nicotinic acetylcholine receptor inactivation at snake twitch fibre endplates, 110, 889
- Sinoatrial node**, Calcium antagonistic and antiarrhythmic actions of CPU-23, a substituted tetrahydroisoquinoline, 109, 113
- Inhibitory actions of ZENECA ZD7288 on whole-cell hyperpolarization activated inward current (*I<sub>p</sub>*) in guinea-pig dissociated sinoatrial node cells, 110, 343
- SK&F 525A**, Conversion of glyceryl trinitrate to nitric oxide in tolerant and non-tolerant smooth muscle and endothelial cells, 108, 162
- SK&F 38393**, Enhancement of D<sub>2</sub> receptor agonist-induced inhibition by D<sub>1</sub> receptor agonist in the ventral tegmental area, 110, 713
- A mechanism underlying dopamine D<sub>1</sub> and D<sub>2</sub> receptor-mediated inhibition of dopaminergic neurones in the ventral tegmental area *in vitro*, 109, 933
- SK&F 86466**, Mediation of the hypotensive action of systemic clonidine in the rat by  $\alpha_2$ -adrenoceptors, 110, 1635
- SK&F 94120**, The effect of cyclic AMP and cyclic GMP phosphodiesterase inhibitors on the superoxide burst of guinea-pig peritoneal macrophages, 108, 876
- SK&F 104353**, Endothelin-induced contraction and mediator release in human bronchus, 110, 392
- Formation of sulphidopeptide-leukotrienes by cell-cell interaction causes coronary vasoconstriction in isolated, cell-perfused heart of rabbit, 110, 1206
  - Relative contributions of direct and indirect mechanisms mediating endothelin-induced contraction of guinea-pig trachea, 110, 955
- Skeletal muscle**, Ligand binding properties of putative  $\beta_2$ -adrenoceptors compared in brown adipose tissue and in skeletal muscle membranes, 109, 1157
- Skeletal muscle cells**, Evidence for an external location of the dihydropyridine agonist receptor site on smooth muscle and skeletal muscle calcium channels, 108, 884
- Skeletal muscle contraction**, The effects of  $\beta$ -adrenoceptor activation on contraction in isolated fast- and slow-twitch skeletal muscle fibres of the rat, 110, 1133
- Skin**, Comparison of the anti-inflammatory properties of formoterol, salbutamol and salmeterol in guinea-pig skin and lung, 110, 613
- E-type prostaglandins enhance local oedema formation and neutrophil accumulation but suppress eosinophil accumulation in guinea-pig skin, 110, 416
- Skin, guinea-pig**, Role of prostaglandins and nitric oxide in acute inflammatory reactions in guinea-pig skin, 110, 1515
- Skin, rabbit**, Activation by *Phoneutria nigriventer* (armed spider) venom of tissue kallikrein-kininogen-kinin system in rabbit skin *in vivo*, 109, 539
- Effect of dexamethasone on neutrophil accumulation and oedema formation in rabbit skin: an investigation of site of action, 108, 959
- Skin, rat**, Involvement of nitric oxide synthase in the delayed vasodilator response to ultraviolet light irradiation of rat skin *in vivo*,

- 109, 802
- Skinned fibres**, Cyclopiazonic acid, an inhibitor of  $\text{Ca}^{2+}$ -ATPase in sarcoplasmic reticulum, increases excitability in ileal smooth muscle, 110, 565
- Slow waves**, Effects of cromakalim on the electrical slow wave in the circular muscle of guinea-pig gastric antrum, 109, 1097
- Modification by charybdotoxin and apamin of spontaneous electrical and mechanical activity of the circular smooth muscle of the guinea-pig stomach, 109, 661
- Small intestine, guinea-pig**, Pharmacological characterization of the contractile responses to angiotensin analogues in guinea-pig isolated longitudinal muscle of small intestine, 108, 1150
- Smooth muscle**, 2-Naphthalenesulphonyl L-aspartyl-(2-phenethyl)amide (2-NAP)—a selective cholecystokinin  $\text{CCK}_A$ -receptor antagonist, 108, 734
- Blockade by calmodulin inhibitors of  $\text{Ca}^{2+}$  channels in smooth muscle from rat vas deferens, 109, 137
  - $[\text{Ca}^{2+}]_i$ -sensitive,  $\text{IP}_3$ -independent  $\text{Ca}^{2+}$  influx in smooth muscle of rat vas deferens revealed by procaine, 110, 1353
  - Characterization of  $\text{CCK}$  receptors in a novel smooth muscle preparation from the guinea-pig stomach by use of the selective antagonists CI-988, L-365,260 and devazepide, 109, 913
  - Contraction of the rat isolated spleen mediated by adenosine  $\text{A}_1$  receptor activation, 109, 1059
  - Cyclopiazonic acid, an inhibitor of  $\text{Ca}^{2+}$ -ATPase in sarcoplasmic reticulum, increases excitability in ileal smooth muscle, 110, 565
  - Differential effects of  $\text{B}_2$  receptor antagonists upon bradykinin-stimulated phospholipase C and D in guinea-pig cultured tracheal smooth muscle, 110, 477
  - Effects of excitatory neurotransmitters on  $\text{Ca}^{2+}$  channel current in smooth muscle cells isolated from guinea-pig urinary bladder, 110, 317
  - Effects of heparin on the vasodilator action of protamine in the rabbit mesenteric artery, 109, 1247
  - Effects of selective antagonism of  $\beta$ -adrenoceptor sub-types on responses to isoprenaline in rat distal colon *in vitro*, 110, 1551
  - Inhibition of nitric oxide synthesis reveals non-cholinergic excitatory neurotransmission in the canine proximal colon, 109, 739
  - Inositol 1,4,5-trisphosphate and inositol 1,3,4,5-tetrakisphosphate binding sites in smooth muscle, 109, 905
  - Intracellular cross-talk between receptors coupled to phospholipase C via pertussis toxin-sensitive and insensitive G-proteins in  $\text{DDT}_1\text{MF-2}$  cells, 109, 719
  - Levromakalim may induce a voltage-independent K-current in rat portal veins by modifying the gating properties of the delayed rectifier, 110, 1037
  - Mechanism of rat uterine smooth muscle contraction induced by endothelin-1, 110, 1437
  - Membrane current responses to externally-applied ATP in the longitudinal muscle of the chicken rectum, 110, 87
  - Modulation of cholinergic and substance P-like neurotransmission by nitric oxide in the guinea-pig ileum, 110, 833
  - Nitric oxide affects mammalian distal colonic smooth muscle by tonic neural inhibition, 108, 974
  - Novel regulation of muscarinic receptors and their coupling with G proteins in smooth muscle: transient resensitization during desensitizing process, 109, 330
  - Partial inhibition by epithelium of tracheal smooth muscle relaxation induced by the potassium channel activator, BRL 38227, 110, 139
  - Photodynamic action of aluminium phthalocyanine tetrasulphonate ( $\text{AlPcS}_4$ ) on smooth muscle: effects of thiols and a cyclic GMP analogue, 110, 1248
  - Post-receptor pathway of the ATP-induced relaxation in smooth muscle of the mouse vas deferens, 110, 326
  - Radioligand and functional estimates of the interaction of the 1,4-dihydropyridines, isradipine and lacidipine, with calcium channels in smooth muscle, 109, 100
  - Single channel and whole-cell K-currents evoked by levromakalim in smooth muscle cells from the rabbit portal vein, 110, 583
  - The superficial buffer barrier in venous smooth muscle: sarcoplasmic reticulum refilling and unloading, 109, 336
- Smooth muscle, airway**, Attenuation of contractions to acetylcholine in canine bronchi by an endogenous nitric oxide-like substance, 109, 887
- Comparison of the effects of selective inhibitors of phosphodiesterase types III and IV in airway smooth muscle with differing  $\beta$ -adrenoceptor subtypes, 108, 57
  - Effects of rolipram and siguazodan on the human isolated bronchus and their interaction with isoprenaline and sodium nitroprusside, 109, 774
  - Endothelin-1 (ET-1)-induced contraction in rat isolated trachea: involvement of  $\text{ET}_A$  and  $\text{ET}_B$  receptors and multiple signal transduction systems, 110, 435
  - Muscarinic effect of atrial natriuretic peptide on rabbit airways, 110, 804
  - Non-adrenergic, non-cholinergic neural activation in guinea-pig bronchi: powerful and frequency-dependent stabilizing effect on tone, 109, 845
- Smooth muscle, arterial**, Charybdotoxin-sensitive  $\text{K}^+$  channels regulate the myogenic tone in the resting state of arteries from spontaneously hypertensive rats, 108, 214
- Effects of high calcium diet on arterial smooth muscle function and electrolyte balance in mineralocorticoid-salt hypertensive rats, 108, 948
  - Quinapril treatment and arterial smooth muscle responses in spontaneously hypertensive rats, 108, 980
- Smooth muscle, bronchial**, Effects of  $\beta$ -adrenoceptor agonists in human bronchial smooth muscle, 110, 1112
- Smooth muscle, bronchial, human isolated**, Effect of passive sensitization on the mechanical activity of human isolated bronchial smooth muscle induced by substance P, neurokinin A and VIP, 109, 131
- Smooth muscle, cavernosal**, Evidence against vasoactive intestinal polypeptide as the relaxant neurotransmitter in human cavernosal smooth muscle, 108, 497
- Smooth muscle, colon**, Protein kinase regulation of muscarinic receptor signalling in colonic smooth muscle, 108, 613
- Smooth muscle, gastric**, Regulation of neural responses in the canine pyloric sphincter by opioids, 108, 1024
- Smooth muscle, ileum**, Mechanism of carbachol-evoked contractions of guinea-pig ileal smooth muscle close to freezing point, 109, 1029
- Pharmacological characterization of muscarinic receptor-activated cation channels in guinea-pig ileum, 109, 793
- Smooth muscle, intestinal**, Contractile and relaxant effects of phorbol ester in the intestinal smooth muscle of guinea-pig taenia caeci, 109, 229
- Smooth muscle, permeabilized**, Contractile and relaxant effects of phorbol ester in the intestinal smooth muscle of guinea-pig taenia caeci, 109, 229
- Smooth muscle, single cells**, The effects of  $\alpha$ -adrenoceptor agonists on intracellular  $\text{Ca}^{2+}$  levels in freshly dispersed single smooth muscle cells from rat tail artery, 109, 1272
- Smooth muscle, tracheal**, Endogenous tachykinins facilitate transmission through parasympathetic ganglia in guinea-pig trachea, 109, 751
- Smooth muscle, vascular**, The action of amlodipine on voltage-operated calcium channels in vascular smooth muscle, 109, 120
- Adenylate cyclase-mediated vascular responses of rabbit aorta, mesenteric artery and skin microcirculation, 110, 633
  - $\beta$ -Adrenoceptor agonist mediated relaxation of rat isolated resistance arteries: a role for the endothelium and nitric oxide, 108, 631
  - Different pathways of calcium sensitization activated by receptor agonists and phorbol esters in vascular smooth muscle, 110, 1527
  - Differential effects of acetylcholine, nitric oxide and levromakalim on smooth muscle membrane potential and tone in the rabbit basilar artery, 110, 651
  - The effects of ATP and  $\alpha, \beta$ -methylene-ATP on cytosolic  $\text{Ca}^{2+}$  level and force in rat isolated aorta, 110, 263
  - Effects of ATP on cultured smooth muscle cells from rat aorta, 108, 638
  - Effects of calyculin A on tension and myosin phosphorylation in skinned smooth muscle of the rabbit mesenteric artery, 109, 703
  - Effects of cicletanine on whole-cell currents of single smooth muscle cells from the guinea-pig portal vein, 109, 164
  - Effects of the novel potassium channel opener, UR-8225, on contractile responses in rat isolated smooth muscle, 110, 1165
  - Effects of rubidium on responses to potassium channel openers in rat isolated aorta, 109, 925
  - Effects of a water-soluble forskolin derivative (NKH477) and a membrane-permeable cyclic AMP analogue on noradrenaline-induced  $\text{Ca}^{2+}$  mobilization in smooth muscle of rabbit mesenteric artery, 110, 1117

- Eicosanoid-induced  $\text{Ca}^{2+}$  release and sustained contraction in  $\text{Ca}^{2+}$ -free media are mediated by different signal transduction pathways in rat aorta, 110, 875
- Influences of the endothelium and hypoxia on neurogenic transmission in the isolated pulmonary artery of the rabbit, 108, 150
- Involvement of nitric oxide synthase in the delayed vasodilator response to ultraviolet light irradiation of rat skin *in vivo*, 109, 802
- K channel activation by nucleotide diphosphates and its inhibition by glibenclamide in vascular smooth muscle cells, 110, 573
- Pharmacological characterization of the dopamine receptor coupled to cyclic AMP formation expressed by rat mesenteric artery vascular smooth muscle cells in culture, 110, 681
- Smooth muscle, venous**, Acetylcholine-induced endothelium-independent relaxations in monkey isolated superior and inferior caval veins, 109, 992
- Smooth muscle cell proliferation**, Oestradiol inhibits smooth muscle cell proliferation of pig coronary artery, 109, 612
- Smooth muscle cells**, 3,4 Dichlorobenzamil-sensitive, monovalent cation channel induced by palytoxin in cultured aortic myocytes, 109, 859
  - Adenosine  $\text{A}_1$ -receptor stimulated increases in intracellular calcium in the smooth muscle cell line, DDT<sub>1</sub>MF-2, 108, 85
  - Conversion of glyceryl trinitrate to nitric oxide in tolerant and non-tolerant smooth muscle and endothelial cells, 108, 162
  - Evidence for an external location of the dihydropyridine agonist receptor site on smooth muscle and skeletal muscle calcium channels, 108, 884
  - Histamine  $\text{H}_1$ -receptor-mediated inositol phospholipid hydrolysis in DDT<sub>1</sub>MF-2 cells: agonist and antagonist properties, 108, 196
  - Prevention of nitric oxide synthase induction in vascular smooth muscle cells by microtubule depolymerizing agents, 109, 603
  - Release of nitric oxide from glyceryl trinitrate by captopril but not enalaprilat: *in vitro* and *in vivo* studies, 109, 430
- Smooth muscle cells, cultured**, Smooth muscle, cultured, Characteristics of the bradykinin-induced changes in intracellular calcium ion concentration of single bovine tracheal smooth muscle cells, 110, 29
  - Homologous and heterologous desensitization of histamine  $\text{H}_1$ - and ATP-receptors in the smooth muscle cell line, DDT<sub>1</sub>MF-2: the role of protein kinase C, 110, 1449
- Smooth muscle cells, ileum**, Effect of trimebutine on voltage-activated calcium current in rabbit ileal smooth muscle cells, 110, 399
- Smooth muscle cells, tracheal**, Intracellular calcium in canine cultured tracheal smooth muscle cells is regulated by  $\text{M}_3$  muscarinic receptors, 110, 983
  - Muscarinic regulation of cytosolic free calcium in canine tracheal smooth muscle cells:  $\text{Ca}^{2+}$  requirement for phospholipase C activation, 110, 1239
- Smooth muscle relaxation**, Cardiovascular effects of SCA40, a novel potassium channel opener, in rats, 110, 1031
  - Effects of pyrimidines on the guinea-pig coronary vasculature, 110, 1091
  - Evaluation of the relaxant effects of SCA40, a novel charybdotoxin-sensitive potassium channel opener, in guinea-pig isolated trachealis, 108, 622
- Snake toxins**, Structural features important for the biological activity of the potassium channel blocking dendrotoxins, 110, 790
- Sodium**, Sodium modulation of  $^3\text{H}$ -agonist and  $^3\text{H}$ -antagonist binding to  $\alpha_2$ -adrenoceptor subtypes, 109, 371
- Sodium azide**, The effect of  $\text{N}^G$ -nitro-L-arginine methyl ester upon basal blood flow and endothelium-dependent vasodilatation in the dog hindlimb, 108, 763
- Sodium channel currents**, Block of voltage-dependent sodium currents by the substance P receptor antagonist ( $\pm$ )-CP-96,345 in neurones cultured from rat cortex, 109, 918
  - Use-dependent block of  $\text{Na}^+$  currents by mexiletine at the single channel level in guinea-pig ventricular myocytes, 110, 183
- Sodium channels**, Characterization of 5-HT<sub>1</sub> receptors of N1E-115 neuroblastoma cells by use of the influx of the organic cation [ $^{14}\text{C}$ ]-guanidinium, 108, 436
  - Effects of hyperkalaemia on the depression of maximum rate of depolarization by class I antiarrhythmic agents in guinea-pig myocardium, 108, 255
  - Electrophysiological and antiarrhythmic actions of the  $\kappa$  agonist PD 129290, and its  $R,R$ (+)-enantiomer, PD 129289, 110, 1579
  - Use-dependent block of  $\text{Na}^+$  currents by mexiletine at the single channel level in guinea-pig ventricular myocytes, 110, 183
- Sodium conductance**, Effect of nafamostat mesilate on  $\text{Na}^+$  and  $\text{K}^+$  transport properties in the rabbit cortical collecting duct, 109, 673
- Sodium excretion**, The effects of a converting enzyme inhibitor (captopril) and angiotensin II on fetal renal function, 110, 821
- Sodium influx**, 3,4 Dichlorobenzamil-sensitive, monovalent cation channel induced by palytoxin in cultured aortic myocytes, 109, 859
- Sodium inward currents**, Mechanical and electrophysiological studies on the positive inotropic effect of 2-phenyl-4-oxo-hydroquinoline in rat cardiac tissues, 110, 310
- Sodium meclofenamate**, Endothelin-induced contraction and mediator release in human bronchus, 110, 392
- Sodium nitroprusside**, A comparison of the inhibitory effects of sodium nitroprusside, pinacidil and nifedipine on pressor response to  $\text{N}^G$ -nitro-L-arginine, 108, 398
  - Effects of rolipram and siguazodan on the human isolated bronchus and their interaction with isoprenaline and sodium nitroprusside, 109, 774
  - Inhibitory actions of diphenyleneiodonium on endothelium-dependent vasodilatations *in vitro* and *in vivo*, 110, 1232
  - Modulation of vasodilatation to levromakalim by hypoxia and EDRF in the rabbit isolated ear: a comparison with pinacidil, sodium nitroprusside and verapamil, 109, 386
  - Nitric oxide is involved in the regulation of angiogenesis, 108, 855
  - S-nitrosocysteine, but not sodium nitroprusside, produces apamin-sensitive hyperpolarization in rat gastric fundus, 109, 415
  - Prevention of nitric oxide synthase induction in vascular smooth muscle cells by microtubule depolymerizing agents, 109, 603
  - Regional and cardiac haemodynamic effects of  $\text{N}^G$ , $\text{N}^G$ -dimethyl-L-arginine and their reversibility by vasodilators in conscious rats, 110, 1457
  - Role of the endothelium in the response to cholinceptor stimulation of rabbit ear and femoral arteries during cooling, 109, 61
- Sodium-calcium exchange**, The positive inotropic effect of compound II, a novel analogue of sotalol, on guinea-pig papillary muscles and single ventricular myocytes, 110, 95
- Soleus muscle, rat**, Characterization of propranolol-resistant (-)-[ $^{125}\text{I}$ ]-cyanopindolol binding sites in rat soleus muscle, 109, 344
  - Effect of capsazepine on the release of calcitonin gene-related peptide-like immunoreactivity (CGRP-LI) induced by low pH, capsaicin and potassium in rat soleus muscle, 110, 609
- Somatostatin**, Antagonist effects of seglitide (MK 678) at somatostatin receptors in guinea-pig isolated right atria, 109, 898
- Somatostatin<sub>44</sub>**, Characterization of somatostatin receptors in guinea-pig isolated ileum, vas deferens and right atrium, 110, 1156
- Somatostatin<sub>28</sub>**, Characterization of somatostatin receptors in guinea-pig isolated ileum, vas deferens and right atrium, 110, 1156
- Somatostatin receptors**, Antagonist effects of seglitide (MK 678) at somatostatin receptors in guinea-pig isolated right atria, 109, 898
  - Characterization of somatostatin receptors in guinea-pig isolated ileum, vas deferens and right atrium, 110, 1156
- Sotalol**, The positive inotropic effect of compound II, a novel analogue of sotalol, on guinea-pig papillary muscles and single ventricular myocytes, 110, 95
- (+)-Sotalol, Effects of MS-551, a new class III antiarrhythmic drug, on action potential and membrane currents in rabbit ventricular myocytes, 109, 157
- Soybean trypsin inhibitor**, Activation by *Phoneutria nigriventer* (armed spider) venom of tissue kallikrein-kininogen-kinin system in rabbit skin *in vivo*, 109, 539
- (+)-Sphingosine, Renal tubular dopamine outward transfer during  $\text{Na}^+$ - $\text{H}^+$  exchange activation by  $\alpha_1$ - and  $\alpha_2$ -adrenoceptor agonists, 109, 569
- Spinal cord**, Cardiovascular effects of intrathecally administered bradykinin in the rat: characterization of receptors with antagonists, 110, 1369
  - Cholecystokinin as a factor in the enhanced potency of spinal morphine following carrageenin inflammation, 108, 967
  - A comparison of the actions of agonists and antagonists at non-NMDA receptors of C fibres and motoneurons of the immature rat spinal cord *in vitro*, 108, 179
  - Effect of RP 67580, a non-peptide neurokinin<sub>1</sub> receptor antagonist, on facilitation of a nociceptive spinal flexion reflex in the rat, 109, 713
  - Muscarinic excitatory and inhibitory mechanisms involved in afferent fibre-evoked depolarization of motoneurons in the neonatal rat spinal cord, 110, 61
- Spinal cord, neonatal rat**, The effects of cholinceptor agonists and

- antagonists on C-fibre evoked responses in the substantia gelatinosa of neonatal rat spinal cord slices, 110, 1061
- A novel metabotropic glutamate receptor agonist: marked depression of monosynaptic excitation in the newborn rat isolated spinal cord, 109, 1169
- Spinal cord, rat**, Depression of primary afferent-evoked responses by GR71251 in the isolated spinal cord of the neonatal rat, 110, 1142
- Effect of bradykinin and prostaglandins on the release of calcitonin gene-related peptide-like immunoreactivity from the rat spinal cord *in vitro*, 108, 185
- Spinal reflex**, Functional evidence for multiple receptor activation by k-ligands in the inhibition of spinal nociceptive reflexes in the rat, 110, 303
- A novel metabotropic glutamate receptor agonist: marked depression of monosynaptic excitation in the newborn rat isolated spinal cord, 109, 1169
- Spinal ventral horn neurones**, Differential properties of type I and type II benzodiazepine receptors in mammalian CNS neurones, 109, 819
- Spleen**, Contraction of the rat isolated spleen mediated by adenosine A<sub>1</sub> receptor activation, 109, 1059
- Localization and characterization of neuropeptide Y binding sites in porcine and human colon, 108, 304
- Spleen, cat**, The action of Hoe 140 on the bradykinin-induced splenic pressor reflex of the anaesthetized cat, 110, 1317
- Spleen, rat**, Inhibition of rat cerebellar nitric oxide synthase by 7-nitro indazole and related substituted indazoles, 110, 225
- Investigation of the subtypes of  $\alpha_1$ -adrenoceptor mediating contractions of rat aorta, vas deferens and spleen, 109, 80
- Spontaneously hypertensive rats (SHRs)**, Acceleration by chronic treatment with clorgyline of the turnover of brain  $\alpha_2$ -adrenoceptors in normotensive but not in spontaneously hypertensive rats, 110, 99
- Charybdotoxin-sensitive K<sup>+</sup> channels regulate the myogenic tone in the resting state of arteries from spontaneously hypertensive rats, 108, 214
  - Different effects of aspirin on blood pressure of spontaneously hypertensive rats (SHR) with high and spontaneously low levels of blood pressure, 109, 900
  - Nitric oxide-mediated changes in vascular reactivity in pregnancy in spontaneously hypertensive rats, 110, 1184
  - Quinapril treatment and arterial smooth muscle responses in spontaneously hypertensive rats, 108, 980
- SQ 28,603**, Metabolism of endothelin-1 and big endothelin-1 by recombinant neutral endopeptidase EC.3.4.24.11, 109, 1024
- SQ 29,548**, Endothelin-induced contraction and mediator release in human bronchus, 110, 392
- SR 33,557**, Identification of a novel calcium antagonist binding site in rat brain by SR 33557, 108, 93
- SR 48,968**, Identification of both NK<sub>1</sub> and NK<sub>2</sub> receptors in guinea-pig airways, 110, 693
- NK<sub>2</sub> receptors mediate plasma extravasation in guinea-pig lower airways, 108, 383
  - Postjunctional inhibitory effect of the NK<sub>2</sub> receptor antagonist, SR 48968, on sensory NANC bronchoconstriction in the guinea-pig, 109, 765
- SR 58,611A**, Effects of two  $\beta_2$ -adrenoceptor agonists, SR 58611A and BRL 37344, and of salbutamol on cholinergic and NANC neural contraction in guinea-pig main bronchi *in vitro*, 110, 1311
- Staurosporine**, Mechanism of staurosporine-induced decrease in acetylcholine receptor recovery from desensitization, 108, 741
- Necessity of divalent cations for recovery from carbachol-induced nicotinic acetylcholine receptor inactivation at snake twitch fibre endplates, 110, 889
  - Protein kinase C inhibitors enhance endothelin-1 and attenuate vasopressin and angiotensin II evoked [Ca<sup>2+</sup>]<sub>i</sub> elevation in the rat cardiomyocyte, 108, 6
- Stereoselectivity**, Human liver microsomal metabolism of the enantiomers of warfarin and acenocoumarol: P450 isozyme diversity determines the differences in their pharmacokinetics, 110, 482
- Steroids**, Investigations into the mechanism of vasoconstrictor action of the topical steroid betamethasone-17-valerate in the rat, 108, 544
- Stomach**, 2-Naphthalenesulphonyl L-aspartyl-(2-phenethyl)amide (2-NAP)—a selective cholecystokinin CCK<sub>A</sub>-receptor antagonist, 108, 734
- Stomach, guinea-pig**, Characterization of CCK receptors in a novel smooth muscle preparation from the guinea-pig stomach by use of the selective antagonists CI-988, L-365,260 and devazepide, 109, 913
- Modification by charybdotoxin and apamin of spontaneous electrical and mechanical activity of the circular smooth muscle of the guinea-pig stomach, 109, 661
- Stomach, mouse**, Comparative study of the control of basal acid output from rodent isolated stomachs, 109, 941
- Stomach, rat**, Comparative study of the control of basal acid output from rodent isolated stomachs, 109, 941
- Nitric oxide-dependent and -independent hyperaemia due to calcitonin gene-related peptide in the rat stomach, 110, 404
  - Use of the endothelin antagonists BQ-123 and PD 142893 to reveal three endothelin receptors mediating smooth muscle contraction and the release of EDRF, 110, 777
- Streptozotocin-induced diabetes**, Amelioration by the Ca<sup>2+</sup> antagonist, nimodipine of an existing neuropathy in the streptozotocin-induced, diabetic rat, 108, 780
- The effects of evening primrose oil on nerve function and capillarization in streptozotocin-diabetic rats: modulation by the cyclo-oxygenase inhibitor flurbiprofen, 109, 972
  - Impaired sensory-motor nerve function in the isolated mesenteric arterial bed of streptozotocin-diabetic and ganglioside-treated streptozotocin-diabetic rats, 110, 1105
  - Vasoreactivity and prostacyclin release in streptozotocin-diabetic rats: effects of insulin or aldose reductase inhibition, 109, 980
- Stress**, Effect of adrenoceptor agonists on striated muscle strips of the canine oesophagus, 110, 297
- Striatum**, The effect of lifarizine (RS-87476), a novel sodium and calcium channel modulator, on ischaemic dopamine depletion in the corpus striatum of the gerbil, 109, 175
- *In vivo* release of dopamine from rat striatum, substantia nigra and prefrontal cortex: differential modulation by baclofen, 109, 814
  - Striatal dopamine release *in vivo* following neurotoxic doses of methamphetamine and effect of the neuroprotective drugs, chlormethiazole and dizocilpine, 108, 590
- Striatum, guinea-pig**, Development of a radioligand binding assay for 5-HT<sub>2</sub> receptors in guinea-pig and rat brain, 109, 618
- Striatum, rat**, Adenosine receptor-mediated modulation of acetylcholine release from rat striatal synaptosomes, 110, 949
- Structure-activity relationships**, Structural features important for the biological activity of the potassium channel blocking dendrotoxins, 110, 790
- Strychnine**, Glycine stimulates striatal dopamine release in conscious rats, 110, 50
- Substance P**, Antinociceptive activity of NK<sub>1</sub> receptor antagonists: non-specific effects of racemic RP67580, 110, 1607
- Attenuation of tachykinin-induced airflow obstruction and microvascular leakage in immature airways, 108, 23
  - Block of voltage-dependent sodium currents by the substance P receptor antagonist ( $\pm$ )-CP-96,345 in neurones cultured from rat cortex, 109, 918
  - Characterization of 5-HT<sub>2</sub> receptors of N1E-115 neuroblastoma cells by use of the influx of the organic cation [<sup>14</sup>C]-guanidinium, 108, 436
  - Depression of primary afferent-evoked responses by GR71251 in the isolated spinal cord of the neonatal rat, 110, 1142
  - Effect of a calcitonin gene-related peptide antagonist (CGRP<sub>8-37</sub>) on skin vasodilatation and oedema induced by stimulation of the rat saphenous nerve, 110, 772
  - Effect of passive sensitization on the mechanical activity of human isolated bronchial smooth muscle induced by substance P, neurokinin A and VIP, 109, 131
  - Effect of RP 67580, a non-peptide neurokinin<sub>1</sub> receptor antagonist, on facilitation of a nociceptive spinal flexion reflex in the rat, 109, 713
  - Effects of interactions of naturally-occurring neuropeptides on blood flow in the rat knee joint, 108, 694
  - Identification of both NK<sub>1</sub> and NK<sub>2</sub> receptors in guinea-pig airways, 110, 693
  - Inhibition of nitric oxide synthesis reveals non-cholinergic excitatory neurotransmission in the canine proximal colon, 109, 739
  - Lack of effect of sumatriptan and UK-14,304 on capsaicin-induced relaxation of guinea-pig isolated basilar artery, 108, 191
  - Mediators of nonadrenergic, noncholinergic inhibition in the proximal, middle and distal regions of rat colon, 108, 348
  - Modulation of cholinergic and substance P-like neurotransmission by nitric oxide in the guinea-pig ileum, 110, 833
  - Neurokinin-induced changes in pial artery diameter in the anaesthetized guinea-pig, 108, 146
  - Non-peptide antagonists, CP-96,345 and RP 67580, distinguish

- species variants in tachykinin NK<sub>1</sub> receptors, 108, 223
- A non-peptide NK<sub>1</sub>-receptor antagonist, RP 67580, inhibits neurogenic inflammation postsynaptically, 109, 259
- Postjunctional inhibitory effect of the NK<sub>2</sub> receptor antagonist, SR 48968, on sensory NANC bronchoconstriction in the guinea-pig, 109, 765
- Profile of capsaicin-induced mouse ear oedema as neurogenic inflammatory model: comparison with arachidonic acid-induced ear oedema, 110, 1614
- Ruthenium red, but not capsazepine reduces plasma extravasation by cigarette smoke in rat airways, 108, 646
- Stimulation of angiogenesis by substance P and interleukin-1 in the rat and its inhibition by NK<sub>1</sub> or interleukin-1 receptor antagonists, 110, 43
- Tachykinin receptors mediating responses to sensory nerve stimulation and exogenous tachykinins and analogues in the rabbit isolated iris sphincter, 109, 1008
- Substantia gelatinosa**, The effects of cholinergic agonists and antagonists on C-fibre evoked responses in the substantia gelatinosa of neonatal rat spinal cord slices, 110, 1061
- Substantia nigra**, [<sup>3</sup>H]-5-carboxamidotryptamine labels 5-HT<sub>1D</sub> binding sites in bovine substantia nigra, 109, 1206
- Glycine stimulates striatal dopamine release in conscious rats, 110, 50
- *In vivo* release of dopamine from rat striatum, substantia nigra and prefrontal cortex: differential modulation by baclofen, 109, 814
- Substituted benzamide analogues**, The guinea-pig distal colon - a sensitive preparation for the investigation of 5-HT<sub>4</sub> receptor-mediated contractions, 110, 1593
- Substituted benzamides**, 5-HT<sub>4</sub> receptor mediated facilitation of the emptying phase of the peristaltic reflex in the guinea-pig isolated ileum, 110, 1572
- Sulphidopeptide leukotrienes**, Formation of sulphidopeptide-leukotrienes by cell-cell interaction causes coronary vasoconstriction in isolated, cell-perfused heart of rabbit, 110, 1206
- Sulphobromophthalein**, Conversion of glyceryl trinitrate to nitric oxide in tolerant and non-tolerant smooth muscle and endothelial cells, 108, 162
- Sulphonylureas**, Antagonism of the stimulatory effects of efaroan and glibenclamide in rat pancreatic islets by the imidazoline, RX801080, 110, 1017
- Differential effects of K<sup>+</sup> channel blockers on antinociception induced by  $\alpha_2$ -adrenoceptor, GABA<sub>B</sub> and  $\kappa$ -opioid receptor agonists, 110, 1049
- Sulprostone**, Potentiation of aggregation and inhibition of adenylate cyclase in human platelets by prostaglandin E analogues, 108, 363
- Sumatriptan**, Characterization of the 5-hydroxytryptamine receptor mediating the positive inotropic response in guinea-pig isolated left atria, 109, 1192
- Comparison of contractile responses to 5-hydroxytryptamine and sumatriptan in human isolated coronary artery: synergy with the thromboxane A<sub>2</sub>-receptor agonist, U46619, 110, 360
- Effects of sumatriptan on the cerebral intraparenchymal microcirculation in the cat, 110, 1445
- 5-HT<sub>1B</sub> receptors mediate potent contractile responses to 5-HT in rat caudal artery, 109, 609
- Inhibition by sumatriptan of central trigeminal neurones only after blood-brain barrier disruption, 109, 788
- Lack of effect of sumatriptan and UK-14,304 on capsaicin-induced relaxation of guinea-pig isolated basilar artery, 108, 191
- Sensory nerve-mediated relaxation of guinea-pig isolated pulmonary artery: prejunctional modulation by  $\alpha_2$ -adrenoceptor agonists but not sumatriptan, 109, 126
- Time-dependent blockade of neurogenic plasma extravasation in dura mater by 5-HT<sub>1B/D</sub> agonists and endopeptidase 24.11, 108, 331
- SUN 9216**, Thrombolytic effect of a plasminogen-plasminogen activator chimera in a photochemically induced thrombosis (PIT) model, 110, 1278
- Sunburn**, Involvement of nitric oxide synthase in the delayed vasodilator response to ultraviolet light irradiation of rat skin *in vivo*, 109, 802
- Superficial buffer barrier (SBB)**, The superficial buffer barrier in venous smooth muscle: sarcoplasmic reticulum refilling and unloading, 109, 336
- Superior colliculus cultured neurones**, Whole cell and single channel analysis of the kinetics of glycine-sensitive N-methyl-D-aspartate receptor desensitization, 109, 213
- Superoxide anion**, Acetylcholine-induced relaxation in bovine isolated mesenteric arteries is suppressed by polymorphonuclear leukocytes, 109, 8
- Inhibition by nitric oxide-donors of human polymorphonuclear leukocyte functions, 109, 852
- Superoxide generation**, The effect of cyclic AMP and cyclic GMP phosphodiesterase inhibitors on the superoxide burst of guinea-pig peritoneal macrophages, 108, 876
- Supersensitivity**, Potentiation of  $\alpha$ -adrenoceptor-mediated responses following chronic  $\beta$ -adrenoceptor stimulation in the rat heart, 108, 658
- Suramin**, Action of purine and pyrimidine nucleotides on the rat superior cervical ganglion, 110, 1297
- Characterization of purinoceptors mediating depolarization of rat isolated vagus nerve, 110, 1055
- Dual contractile effects of ATP released by field stimulation revealed by effects of  $\alpha,\beta$ -methylene ATP and suramin in rat tail artery, 110, 1421
- Reversal by suramin of neuromuscular block produced by pancuronium in the anaesthetized rat, 108, 717
- Suxamethonium**, Reversal by suramin of neuromuscular block produced by pancuronium in the anaesthetized rat, 108, 717
- Sympathetic nerves**, Stimulation of lumbar sympathetic nerves evokes contractions of cat colon circular muscle mediated by ATP and noradrenaline, 110, 1260
- Tachykinin receptors of the NK<sub>2</sub> type involved in the acetylcholine release by nicotine in guinea-pig bladder, 108, 759
- Sympathetic nervous system**, Halothane inhibits the pressor effect of diphenylethiodonium, 109, 1186
- Sympathetic neurones**, Involvement of pertussis toxin-sensitive and -insensitive mechanisms in  $\alpha$ -adrenoceptor modulation of noradrenaline release from rat sympathetic neurones in tissue culture, 110, 281
- Sympathetic neurones, rat**, Block of potassium currents in rat isolated sympathetic neurones by tricyclic antidepressants and structurally related compounds, 110, 1126
- Sympathetic neurotransmission**, Dual contractile effects of ATP released by field stimulation revealed by effects of  $\alpha,\beta$ -methylene ATP and suramin in rat tail artery, 110, 1421
- Evidence for sympathetic neurotransmission through presynaptic N-type calcium channels in human saphenous vein, 110, 338
- Production by R- $\alpha$ -methylhistamine of a histamine H<sub>2</sub> receptor-mediated decrease in basal vascular resistance in guinea-pigs, 110, 553
- Synapse**, The effect of ions and second messengers on long-term potentiation of chemical transmission in avian ciliary ganglia, 110, 461
- Synaptic plasticity**, Pharmacological characterization of the metabotropic glutamate receptor inhibiting D-[<sup>3</sup>H]-aspartate output in rat striatum, 110, 1407
- Synaptic transmission**, The effect of nitric oxide on the efficacy of synaptic transmission through the chick ciliary ganglion, 110, 627
- Synaptic vesicles**, Selective MPP<sup>+</sup> uptake into synaptic dopamine vesicles: possible involvement in MPTP neurotoxicity, 109, 411
- Synaptosomes**, Adenosine receptor-mediated modulation of acetylcholine release from rat striatal synaptosomes, 110, 949
- Ap<sub>5</sub>A and ADP- $\beta$ -S binding to P<sub>2</sub> purinoceptors present on rat brain synaptic terminals, 108, 1094
- Effects of the central analgesic tramadol on the uptake and release of noradrenaline and dopamine *in vitro*, 108, 806
- Structural features important for the biological activity of the potassium channel blocking dendrotoxins, 110, 790

## T

- Tachycardia**, Characterization of the 5-HT<sub>4</sub> receptor mediating tachycardia in piglet isolated right atrium, 110, 1023
- RS 23597-190: a potent and selective 5-HT<sub>4</sub> receptor antagonist, 110, 119
- Tachykinins**, Attenuation of tachykinin-induced airflow obstruction and microvascular leakage in immature airways, 108, 23
- Effect of RP 67580, a non-peptide neurokinin<sub>1</sub> receptor antagonist, on facilitation of a nociceptive spinal flexion reflex in the rat, 109, 713
- Endogenous tachykinins facilitate transmission through parasympathetic ganglia in guinea-pig trachea, 109, 751
- Identification of both NK<sub>1</sub> and NK<sub>2</sub> receptors in guinea-pig airways,

- 110, 693
- Inhibition of nitric oxide synthesis reveals non-cholinergic excitatory neurotransmission in the canine proximal colon, 109, 739
  - Modulation of cholinergic and substance P-like neurotransmission by nitric oxide in the guinea-pig ileum, 110, 833
  - Ruthenium red, but not capsazepine reduces plasma extravasation by cigarette smoke in rat airways, 108, 646
  - Tachykinin NK<sub>1</sub> but not NK<sub>2</sub> receptors mediate non-cholinergic excitatory junction potentials in the circular muscle of guinea-pig colon, 110, 795
  - *see also* Neurokinins
  - Tachykinin receptors**, Depression of primary afferent-evoked responses by GR71251 in the isolated spinal cord of the neonatal rat, 110, 1142
  - The interaction of the NK<sub>1</sub> receptor antagonist CP-96,345 with L-type calcium channels and its functional consequences, 110, 385
  - Stimulation of angiogenesis by substance P and interleukin-1 in the rat and its inhibition by NK<sub>1</sub> or interleukin-1 receptor antagonists, 110, 43
  - Tachykinin NK<sub>1</sub> but not NK<sub>2</sub> receptors mediate non-cholinergic excitatory junction potentials in the circular muscle of guinea-pig colon, 110, 795
  - Tachykinin receptors mediating responses to sensory nerve stimulation and exogenous tachykinins and analogues in the rabbit isolated iris sphincter, 109, 1008
  - Tachykinin receptor antagonists**, Depression of primary afferent-evoked responses by GR71251 in the isolated spinal cord of the neonatal rat, 110, 1142
  - Effects of two novel tachykinin antagonists, FK224 and FK888, on neurogenic airway plasma exudation, bronchoconstriction and systemic hypotension in guinea-pigs *in vivo*, 108, 844
  - Relative contributions of direct and indirect mechanisms mediating endothelin-induced contraction of guinea-pig trachea, 110, 955
  - Tachykinin NK<sub>1</sub> but not NK<sub>2</sub> receptors mediate non-cholinergic excitatory junction potentials in the circular muscle of guinea-pig colon, 110, 795
  - Tachykinin NK<sub>1</sub> antagonists**, Higher potency of RP 67580, in the mouse and the rat compared with other nonpeptide and peptide tachykinin NK<sub>1</sub> antagonists, 108, 793
  - The non-peptide neurokinin<sub>1</sub> receptor antagonist, RP 67580, blocks neurogenic plasma extravasation in the dura mater of rats, 108, 11
  - Tachykinin NK<sub>1</sub> receptors**, Effects of two novel tachykinin antagonists, FK224 and FK888, on neurogenic airway plasma exudation, bronchoconstriction and systemic hypotension in guinea-pigs *in vivo*, 108, 844
  - Higher potency of RP 67580, in the mouse and the rat compared with other nonpeptide and peptide tachykinin NK<sub>1</sub> antagonists, 108, 793
  - Non-peptide antagonists, CP-96,345 and RP 67580, distinguish species variants in tachykinin NK<sub>1</sub> receptors, 108, 223
  - Tachykinin NK<sub>2</sub> receptors**, Effects of two novel tachykinin antagonists, FK224 and FK888, on neurogenic airway plasma exudation, bronchoconstriction and systemic hypotension in guinea-pigs *in vivo*, 108, 844
  - NK<sub>2</sub> receptors mediate plasma extravasation in guinea-pig lower airways, 108, 383
  - Tachykinin receptors of the NK<sub>2</sub> type involved in the acetylcholine release by nicotine in guinea-pig bladder, 108, 759
  - Tacrine**, Block of potassium currents in rat isolated sympathetic neurones by tricyclic antidepressants and structurally related compounds, 110, 1126
  - Pharmacological characterization of acetylcholine-stimulated [<sup>35</sup>S]-GTPγS binding mediated by human muscarinic m1-m4 receptors: antagonist studies, 109, 1120
  - Taenia caeci, guinea-pig**, Photodynamic action of aluminium phthalocyanine tetrasulphonate (A1PcS<sub>4</sub>) on smooth muscle: effects of thiols and a cyclic GMP analogue, 110, 1248
  - Tail-flick test**, Attenuation of reperfusion hyperalgesia in the rat by systemic administration of benzodiazepines, 110, 1067
  - Inhibition of spinal opioid antinociception by intrathecal β-endorphin, 27 in the rat, 108, 1137
  - Tamoxifen**, A current view of tamoxifen for the treatment and prevention of breast cancer, 110, 507
  - Oestradiol inhibits smooth muscle cell proliferation of pig coronary artery, 109, 612
  - TCV-309**, Effect of the platelet-activating factor antagonist, TCV-309, and the cyclo-oxygenase inhibitor, ibuprofen, on the haemodynamic changes in canine experimental endotoxemic shock, 110, 1501
  - Telemetry**, Pharmacological profile of valsartan: a potent, orally active, nonpeptide antagonist of the angiotensin II AT<sub>1</sub>-receptor subtype, 110, 761
  - Temperature**, Mechanism of carbachol-evoked contractions of guinea-pig ileal smooth muscle close to freezing point, 109, 1029
  - Role of the endothelium in the response to cholinergic stimulation of rabbit ear and femoral arteries during cooling, 109, 61
  - Terbutaline**, The effects of β-adrenoceptor activation on contraction in isolated fast- and slow-twitch skeletal muscle fibres of the rat, 110, 1133
  - Tetraethylammonium**, Acetylcholine-induced endothelium-independent relaxations in monkey isolated superior and inferior caval veins, 109, 992
  - Differential effects of K<sup>+</sup> channel blockers on antinociception induced by α<sub>2</sub>-adrenoceptor, GABA<sub>B</sub> and κ-opioid receptor agonists, 110, 1049
  - Tetraisopropylpyrophosphoramidate**, Degradation of acetylcholine in human airways: role of butyrylcholinesterase, 108, 914
  - Tetrodotoxin**, Block of voltage-dependent sodium currents by the substance P receptor antagonist (±)-CP-96,345 in neurones cultured from rat cortex, 109, 918
  - Modulation of acetylcholine-induced contractions of the rat anococcygeus muscle by activation of nitergic nerves, 110, 1479
  - Thapsigargin**, Activation by calcium alone of chloride secretion in T<sub>84</sub> epithelial cells, 109, 510
  - Selective inhibition of agonist-induced but not shear stress-dependent release of endothelial autacoids by thapsigargin, 108, 100
  - Theophylline**, Investigation into the role of phosphodiesterase IV in bronchorelaxation, including studies with human bronchus, 108, 562
  - Thermodynamics**, The thermodynamics of antagonist binding to rat muscarinic M<sub>2</sub> receptors: antimuscarnics of the pridinol, sila-pridinol, diphenidol and sila-diphenidol type, 109, 360
  - Thiocyanate**, Thiocyanate ions selectively antagonize AMPA-evoked responses in *Xenopus laevis* oocytes microinjected with rat brain mRNA, 109, 779
  - Thiols**, Photodynamic action of aluminium phthalocyanine tetrasulphonate (A1PcS<sub>4</sub>) on smooth muscle: effects of thiols and a cyclic GMP analogue, 110, 1248
  - Thioperamide**, Production by R-α-methylhistamine of a histamine H<sub>3</sub> receptor-mediated decrease in basal vascular resistance in guinea-pigs, 110, 553
  - Thiorphan**, Comparison of the cardiovascular and neural activity of endothelin-1, -2, -3 and respective proendothelins: effects of phosphoramidon and thiorphan, 110, 331
  - Relative contributions of direct and indirect mechanisms mediating endothelin-induced contraction of guinea-pig trachea, 110, 955
  - Thrombin**, The effect of defibrotide on thromboembolism in the pulmonary vasculature of mice and rabbits and in the cerebral vasculature of rabbits, 110, 1565
  - Role of cyclic AMP in promoting the thromboresistance of human endothelial cells by enhancing thrombomodulin and decreasing tissue factor activities, 109, 18
  - α-Thrombin activation**, Effects of L- and D-arginine and some related esters on the cytosolic mechanisms of α-thrombin-induced human platelet activation, 110, 213
  - Thrombolysis**, Thrombolytic effect of a plasminogen-plasminogen activator chimera in a photochemically induced thrombosis (PIT) model, 110, 1278
  - Thrombomodulin**, Role of cyclic AMP in promoting the thromboresistance of human endothelial cells by enhancing thrombomodulin and decreasing tissue factor activities, 109, 18
  - Thrombosis**, The effect of defibrotide on thromboembolism in the pulmonary vasculature of mice and rabbits and in the cerebral vasculature of rabbits, 110, 1565
  - Thromboxane**, Bradykinin-induced airflow obstruction and airway plasma exudation: effects of drugs that inhibit acetylcholine, thromboxane A<sub>2</sub> or leukotrienes, 110, 657
  - Characteristics of the binding of [<sup>3</sup>H]-GR32191 to the thromboxane (TP-) receptor of human platelets, 110, 539
  - Thromboxane receptors**, Leukotriene D<sub>4</sub> receptors are not negatively coupled to adenylyl cyclase in guinea-pig lung parenchyma, 108, 824
  - Thromboxane A<sub>2</sub>**, Comparison of contractile responses to 5-hydroxytryptamine and sumatriptan in human isolated coronary artery: synergy with the thromboxane A<sub>2</sub>-receptor agonist, U46619, 110, 360

- Effects of vasoactive intestinal polypeptide on antigen-induced bronchoconstriction and thromboxane release in guinea-pig lung, 109, 243
- Eicosanoid-dependence of responses of pre- but not postglomerular vessels to noradrenaline in rat isolated kidneys, 110, 235
- Induction by endotoxin of nitric oxide synthase in the rat mesentery: lack of effect on action of vasoconstrictors, 109, 265
- Redirection of arachidonic acid metabolism by ICI D1542: effects on thrombus formation in the coronary artery of the anaesthetized dog, 108, 901
- ZD1542, a potent thromboxane A<sub>2</sub> synthase inhibitor and receptor antagonist *in vitro*, 110, 1600
- Thromboxane A<sub>2</sub> receptors**, Reduction in the number of thromboxane receptors on human platelets after exposure to GR32191, 110, 548
- Thromboxane A<sub>2</sub> receptor blocking drugs**, Reduction in the number of thromboxane receptors on human platelets after exposure to GR32191, 110, 548
- Thromboxane synthase inhibitors**, ZD1542, a potent thromboxane A<sub>2</sub> synthase inhibitor and receptor antagonist *in vitro*, 110, 1600
- Thromboxane synthetase**, Leukotriene D<sub>4</sub> receptors are not negatively coupled to adenylyl cyclase in guinea-pig lung parenchyma, 108, 824
- Thrombus formation**, Interaction between the effects of 5-hydroxytryptamine and adrenaline on the growth of platelet thrombi in the coronary artery of the anaesthetized dog, 109, 405
- Thrombus formation, photochemically induced**, Thrombolytic effect of a plasminogen-plasminogen activator chimera in a photochemically induced thrombosis (PIT) model, 110, 1278
- Thyrotropin releasing hormone (TRH)**, Effects of *N*<sup>ω</sup>-nitro-L-arginine methyl ester on the cardiovascular system of the anaesthetized rabbit and on the cardiovascular response to thyrotropin-releasing hormone, 109, 1219
- Tienoxolol**, Effect of tienoxolol, a new diuretic β-blocking agent, on urinary prostaglandin excretion in the rat, 109, 278
- Tissue culture**, Involvement of pertussis toxin-sensitive and -insensitive mechanisms in α-adrenoceptor modulation of noradrenaline release from rat sympathetic neurones in tissue culture, 110, 281
- Tissue factor**, Role of cyclic AMP in promoting the thromboresistance of human endothelial cells by enhancing thrombomodulin and decreasing tissue factor activities, 109, 18
- Tissue injury**, Stimulated eosinophils and proteinases augment the transepithelial flux of albumin in bovine bronchial mucosa, 110, 840
- Tissue plasminogen activators**, Thrombolytic effect of a plasminogen-plasminogen activator chimera in a photochemically induced thrombosis (PIT) model, 110, 1278
- Tocainide**, Kinetics of rate-dependent slowing of intraventricular conduction by the class Ib antiarrhythmic agent tocinide *in vivo*, 110, 145
- Tolbutamide**, Effects of potassium channel openers and their antagonists on rat locus coeruleus neurones, 109, 308
- Tolerance**, Conversion of glyceryl trinitrate to nitric oxide in tolerant and non-tolerant smooth muscle and endothelial cells, 108, 162
- Counteraction of the rapid tolerance to 8-OH-DPAT-induced corticosterone secretion in rats by activation of the GABA<sub>A</sub> receptor-chloride channel complex, 109, 207
- Evidence for functional dissociation of dependence and tolerance in guinea-pig isolated ileal segments following 20 hour exposure to morphine *in vitro*, 110, 1522
- Release of nitric oxide from glyceryl trinitrate by captopril but not enalaprilat: *in vitro* and *in vivo* studies, 109, 430
- Trachea**, Characteristics of the bradykinin-induced changes in intracellular calcium ion concentration of single bovine tracheal smooth muscle cells, 110, 29
- Differential effects of B<sub>2</sub> receptor antagonists upon bradykinin-stimulated phospholipase C and D in guinea-pig cultured tracheal smooth muscle, 110, 477
- Functional characterization of muscarinic receptors in murine airways, 109, 53
- A novel ET<sub>A</sub>-receptor antagonist, FR 139317, inhibits endothelin-induced contractions of guinea-pig pulmonary arteries, but not trachea, 108, 448
- Ruthenium red, but not capsazepine reduces plasma extravasation by cigarette smoke in rat airways, 108, 646
- Stimulated eosinophils and proteinases augment the transepithelial flux of albumin in bovine bronchial mucosa, 110, 840
- Trachea, bovine**, The affinity of betaxolol, a β<sub>2</sub>-adrenoceptor-selective blocking agent, for β<sub>2</sub>-adrenoceptors in the bovine trachea and heart, 108, 484
- Trachea, guinea-pig**, Estimation of partial agonist affinity by interaction with a full agonist: a direct operational model-fitting approach, 110, 239
- Evaluation of the relaxant effects of SCA40, a novel charybdotoxin-sensitive potassium channel opener, in guinea-pig isolated trachealis, 108, 622
- Induction by endothelin-1 of epithelium-dependent relaxation of guinea-pig trachea *in vitro*: role for nitric oxide, 109, 637
- Influence of epithelium on the inhibition of melittin-induced contraction of guinea-pig isolated trachea by the potassium channel opener NIP-121, 109, 1091
- Investigations into factors determining the duration of action of the β<sub>2</sub>-adrenoceptor agonist, salmeterol, 108, 507
- Relative contributions of direct and indirect mechanisms mediating endothelin-induced contraction of guinea-pig trachea, 110, 955
- Trachea, rat**, Endothelin-1 (ET-1)-induced contraction in rat isolated trachea: involvement of ET<sub>A</sub> and ET<sub>B</sub> receptors and multiple signal transduction systems, 110, 435
- The role of nitric oxide in cholinergic neurotransmission in rat trachea, 110, 816
- Tracheal responsiveness**, Virus-induced airway hyperresponsiveness in the guinea-pig: possible involvement of histamine and inflammatory cells, 108, 1083
- Trachealis muscle**, β-Adrenoceptor subtypes and the opening of plasmalemmal K<sup>+</sup>-channels in bovine trachealis muscle: studies of mechanical activity and ion fluxes, 109, 1149
- β-Adrenoceptor subtypes and the opening of plasmalemmal K<sup>+</sup>-channels in trachealis muscle: electrophysiological and mechanical studies in guinea-pig tissue, 109, 1140
- Tramadol**, Effects of the central analgesic tramadol and its main metabolite, *O*-desmethyltramadol, on rat locus coeruleus neurones, 110, 169
- Effects of the central analgesic tramadol on the uptake and release of noradrenaline and dopamine *in vitro*, 108, 806
- Transcellular biosynthesis**, Formation of sulphidopeptide-leukotrienes by cell-cell interaction causes coronary vasoconstriction in isolated, cell-perfused heart of rabbit, 110, 1206
- Transient outward currents**, Effects of MS-551, a new class III antiarrhythmic drug, on action potential and membrane currents in rabbit ventricular myocytes, 109, 157
- Mechanical and electrophysiological studies on the positive inotropic effect of 2-phenyl-4-oxo-hydroquinoline in rat cardiac tissues, 110, 310
- Transient resensitization**, Novel regulation of muscarinic receptors and their coupling with G proteins in smooth muscle: transient resensitization during desensitizing process, 109, 330
- Transmitter release**, Modulation of cholinergic and substance P-like neurotransmission by nitric oxide in the guinea-pig ileum, 110, 833
- Trasylol**, Activation by *Phoneutria nigriventer* (armed spider) venom of tissue kallikrein-kininogen-kinin system in rabbit skin *in vivo*, 109, 539
- Trimebutine**, Effect of trimebutine on voltage-activated calcium current in rabbit ileal smooth muscle cells, 110, 399
- 2,2',2''-Tripyridine**, Blockade by 2,2',2''-tripyridine of the nicotinic acetylcholine receptor channels in embryonic *Xenopus* muscle cells, 110, 163
- Tropisetron**, 5-HT<sub>3</sub> antagonists reduce morphine self-administration in rats, 110, 1341
- The guinea-pig distal colon - a sensitive preparation for the investigation of 5-HT<sub>4</sub> receptor-mediated contractions, 110, 1593
- Trypsin**, Pathological events in experimental acute pancreatitis prevented by the bradykinin antagonist, Hoe 140, 108, 405
- Tryptamine analogues**, The guinea-pig distal colon - a sensitive preparation for the investigation of 5-HT<sub>4</sub> receptor-mediated contractions, 110, 1593
- Tryptamines**, Characterization of the 5-HT<sub>4</sub> receptor mediating tachycardia in piglet isolated right atrium, 110, 1023
- Tumour necrosis factor**, Bradykinin initiates cytokine-mediated inflammatory hyperalgesia, 110, 1227
- Porcine ventricular endocardial cells in culture express the inducible form of nitric oxide synthase, 108, 1107
- Role of tumour necrosis factor in the induction of nitric oxide synthase in a rat model of endotoxin shock, 110, 177
- Tumour necrosis factor-α (TNFα)**, Serum corticosterone, interleukin-1 and tumour necrosis factor in rat experimental endotoxaemia:

comparison between Lewis and Wistar strains, 110, 868  
**Tyramine**, Induction by endogenous noradrenaline of an  $\alpha_1$ -adrenoceptor-mediated positive inotropic effect in rabbit papillary muscles, 109, 1232

## U

**U-46,619**, Eicosanoid-induced  $\text{Ca}^{2+}$  release and sustained contraction in  $\text{Ca}^{2+}$ -free media are mediated by different signal transduction pathways in rat aorta, 110, 875  
**U-50,488**, Effects of the  $\kappa$ -opioid agonist U50,488 on parturition in rats, 109, 251  
**U-50,488H**, Differential effects of  $\text{K}^+$  channel blockers on antinociception induced by  $\alpha_2$ -adrenoceptor,  $\text{GABA}_B$  and  $\kappa$ -opioid receptor agonists, 110, 1049  
 – Withdrawal contractures of guinea-pig isolated ileum after acute activation of  $\kappa$ -opioid receptors, 109, 48  
**U-67,590A**, Immediate inhibitory effect of methylprednisolone sultepanate (U-67590A) on antigen-induced cutaneous and airway anaphylactic responses in guinea-pigs, 108, 604  
**U-78,517F**, Cellular mechanism of U78517F in the protection of porcine coronary artery endothelial cells from oxygen radical-induced damage, 108, 1077  
**UK-14,304**, *In vivo* microdialysis of noradrenaline overflow: effects of  $\alpha$ -adrenoceptor agonists and antagonists measured by cumulative concentration-response curves, 109, 655  
 – Lack of effect of sumatriptan and UK-14,304 on capsaicin-induced relaxation of guinea-pig isolated basilar artery, 108, 191  
**[ $^3\text{H}$ ]-UK-14,304**, Acceleration by chronic treatment with clorgyline of the turnover of brain  $\alpha_2$ -adrenoceptors in normotensive but not in spontaneously hypertensive rats, 110, 99  
**UK-66,914**, Selective  $I_K$  blockade as an antiarrhythmic mechanism: effects of UK66,914 on ischaemia and reperfusion arrhythmias in rat and rabbit hearts, 108, 139  
**UK-74,505**, Role of platelet-activating factor (PAF) in platelet accumulation in rabbit skin: effect of the novel long-acting PAF antagonist, UK-74,505, 109, 234  
**UL-FS 49**, Inhibitory actions of ZENECA ZD7288 on whole-cell hyperpolarization activated inward current ( $I_f$ ) in guinea-pig dissociated sinoatrial node cells, 110, 343  
**Ultraviolet light**, Involvement of nitric oxide synthase in the delayed vasodilator response to ultraviolet light irradiation of rat skin *in vivo*, 109, 802  
**UR-8225**, Effects of the novel potassium channel opener, UR-8225, on contractile responses in rat isolated smooth muscle, 110, 1165  
**Ureter, pig**, Different muscarinic receptor subtypes mediating the phasic activity and basal tone of pig isolated intravesical ureter, 110, 1413  
**Urethane**, Halothane inhibits the pressor effect of diphenyleneiodonium, 109, 1186  
**Urethra, rabbit**, Effect of  $\omega$ -conotoxin on adrenergic, cholinergic and NANC neurotransmission in the rabbit urethra and detrusor, 110, 1285  
**Urethral sphincter**, Capsaicin-induced relaxation in the rat isolated external urethral sphincter: characterization of the vanilloid receptor and mediation by CGRP, 110, 989  
**Urinary bladder**, ATP induced-relaxation in the mouse bladder smooth muscle, 108, 749  
 – A comparison of capsazepine and ruthenium red as capsaicin antagonists in the rat isolated urinary bladder and vas deferens, 108, 801  
 – Effects of excitatory neurotransmitters on  $\text{Ca}^{2+}$  channel current in smooth muscle cells isolated from guinea-pig urinary bladder, 110, 317  
**Urinary bladder, rabbit**, PPADS selectively antagonizes  $\text{P}_{2\text{X}}$ -purinoceptor-mediated responses in the rabbit urinary bladder, 110, 1491  
**Urinary bladder, rat**, Differential changes of adrenoceptor- and muscarinic receptor-linked prostacyclin synthesis by the aorta and urinary bladder of the diabetic rat, 108, 1131  
**Urinary tract**, Alfuzosin, a selective  $\alpha_1$ -adrenoceptor antagonist in the lower urinary tract, 109, 1282  
 – Nitric oxide synthase in pig lower urinary tract: immunohistochemistry, NADPH diaphorase histochemistry and functional effects, 110, 521  
**Urine**, Effect of tienoxolol, a new diuretic  $\beta$ -blocking agent, on urinary

prostaglandin excretion in the rat, 109, 278  
**Uterine contractility**, Effects of the  $\kappa$ -opioid agonist U50,488 on parturition in rats, 109, 251  
**Uterus**, Mechanism of rat uterine smooth muscle contraction induced by endothelin-1, 110, 1437  
**UTP**, Activation of the phospholipase C pathway by ATP is mediated exclusively through nucleotide type  $\text{P}_2$ -purinoceptors in C2C12 myotubes, 110, 747  
 – Desensitization of the  $\text{P}_2$ -purinoceptors on the rat colon muscularis mucosae, 110, 501  
 – Evidence that a form of ATP uncomplexed with divalent cations is the ligand of  $\text{P}_{2\text{y}}$  and nucleotide/ $\text{P}_{2\text{u}}$  receptors on aortic endothelial cells, 109, 967  
 – Extracellular ATP and UTP activation of phospholipase D is mediated by protein kinase C- $\epsilon$  in rat renal mesangial cells, 110, 847

## V

**Vagal stimulation**, Postjunctional inhibitory effect of the  $\text{NK}_2$  receptor antagonist, SR 48968, on sensory NANC bronchoconstriction in the guinea-pig, 109, 765  
**Vagus nerve**, Effects of two novel tachykinin antagonists, FK224 and FK888, on neurogenic airway plasma exudation, bronchoconstriction and systemic hypotension in guinea-pigs *in vivo*, 108, 844  
 – A facilitatory effect of anti-angiotensin drugs on vagal bradycardia in the pithed rat and guinea-pig, 110, 289  
 – Regulation of NANC neural bronchoconstriction *in vivo* in the guinea-pig: involvement of nitric oxide, 108, 228  
**Vagus nerve, rat**, Characterization of purinoceptors mediating depolarization of rat isolated vagus nerve, 110, 1055  
 – RS 23597-190: a potent and selective 5-HT $_1$  receptor antagonist, 110, 119  
**Valsartan**, Pharmacological profile of valsartan: a potent, orally active, nonpeptide antagonist of the angiotensin II  $\text{AT}_1$ -receptor subtype, 110, 761  
**Van't Hoff plot**, The thermodynamics of antagonist binding to rat muscarinic  $\text{M}_2$  receptors: antimuscarinics of the pridinol, sila-pridinol, diphenidol and sila-diphenidol type, 109, 360  
**Vas deferens**, Blockade by calmodulin inhibitors of  $\text{Ca}^{2+}$  channels in smooth muscle from rat vas deferens, 109, 137  
 – [ $\text{Ca}^{2+}$ ] $_i$ -sensitive,  $\text{IP}_3$ -independent  $\text{Ca}^{2+}$  influx in smooth muscle of rat vas deferens revealed by procaine, 110, 1353  
 – Characterization of somatostatin receptors in guinea-pig isolated ileum, vas deferens and right atrium, 110, 1156  
 – Post-receptor pathway of the ATP-induced relaxation in smooth muscle of the mouse vas deferens, 110, 326  
**Vas deferens, mouse**, Cross-tolerance between delta-9-tetrahydrocannabinol and the cannabimimetic agents, CP 55,940, WIN 55,212-2 and anandamide, 110, 1483  
 – Effect of opioid receptor subtype-selective agonists on purinergic and adrenergic components of neurogenic contractions of mouse vas deferens, 108, 443  
 – Prejunctional modulation of noradrenaline release in mouse and rat vas deferens: contribution of  $\text{P}_1$ - and  $\text{P}_2$ -purinoceptors, 110, 1465  
**Vas deferens, rat**, Calcium modulatory properties of 2,6-dibutylbenzylamine (B25) in rat isolated vas deferens, cardiac and smooth muscle preparations, 109, 1038  
 – Characterization of endothelin receptors mediating the effects of the endothelin/sarafotoxin peptides on autonomic neurotransmission in the rat vas deferens and guinea-pig ileum, 110, 783  
 – Characterization and ontogeny of  $\text{P}_1$ -purinoceptors on rat vas deferens, 108, 754  
 – Chloroethylclonidine: an irreversible agonist at prejunctional  $\alpha_2$ -adrenoceptors in rat vas deferens, 108, 336  
 – A comparison of capsazepine and ruthenium red as capsaicin antagonists in the rat isolated urinary bladder and vas deferens, 108, 801  
 – Comparison of the cardiovascular and neural activity of endothelin-1, -2, -3 and respective proendothelins: effects of phosphoramidon and thiorphan, 110, 331  
 – Differential effects of BQ-123 against endothelin-1 and endothelin-3 on the rat vas deferens: evidence for an atypical endothelin receptor, 109, 736  
 – Effects of nifedipine and ryanodine on adrenergic neurogenic contractions of rat vas deferens: evidence for a pulse-to-pulse change in  $\text{Ca}^{2+}$  sources, 108, 1062

- Investigation of the subtypes of  $\alpha_1$ -adrenoceptor mediating contractions of rat aorta, vas deferens and spleen, 109, 80
- Modulation of  $\alpha_1$ -adrenoceptors and functional consequences in the bisected rat vas deferens following chronic inhibition of neuronal noradrenaline uptake, 108, 678
- Prejunctional modulation of noradrenaline release in mouse and rat vas deferens: contribution of  $P_1$ - and  $P_2$ -purinoceptors, 110, 1465
- Study of the mechanism of the relaxant action of (+)-glucine in rat vas deferens, 110, 943
- Vascular capacitance**, The effects of  $N^G$ -nitro-L-arginine methyl ester, sodium nitroprusside and noradrenaline on venous return in the anaesthetized cat, 108, 933
- Vascular endothelial growth factor**, Characterization of the increase in vascular permeability induced by vascular permeability factor *in vivo*, 109, 195
- Vascular non-selective cation channels**, 3,4 Dichlorobenzamil-sensitive, monovalent cation channel induced by palytoxin in cultured aortic myocytes, 109, 859
- Vascular permeability**, Attenuation of tachykinin-induced airflow obstruction and microvascular leakage in immature airways, 108, 23
- Comparison of the anti-inflammatory properties of formoterol, salbutamol and salmeterol in guinea-pig skin and lung, 110, 613
- Effect of dexamethasone on neutrophil accumulation and oedema formation in rabbit skin: an investigation of site of action, 108, 959
- Effects of hydroxyethylrutosides on the permeability of microvessels in the frog mesentery, 110, 199
- Immediate inhibitory effect of methylprednisolone sultetanate (U-67590A) on antigen-induced cutaneous and airway anaphylactic responses in guinea-pigs, 108, 604
- The induction of nitric oxide synthase and intestinal vascular permeability by endotoxin in the rat, 110, 1189
- Leukotriene  $D_4$ - and prostaglandin  $F_{2\alpha}$ -induced airflow obstruction and airway plasma exudation in guinea-pig: role of thromboxane and its receptor, 110, 127
- Vascular responses to endothelin-1 following inhibition of nitric oxide synthesis in the conscious rat, 110, 1213
- Vascular permeability factor**, Characterization of the increase in vascular permeability induced by vascular permeability factor *in vivo*, 109, 195
- Vascular reactivity**, Effects of dicentrine on haemodynamic, plasma lipid, lipoprotein level and vascular reactivity in hyperlipidaemic rats, 108, 1055
- Mechanisms of vasodilatation in pregnancy: studies of the role of prostaglandins and nitric-oxide in changes of vascular reactivity in the *in situ* blood perfused mesentery of pregnant rats, 109, 322
- Protection by scopolamine against the alterations of plasma lipoproteins, vascular morphology and vascular reactivity in hyperlipidaemic diabetic rabbit, 110, 1508
- Vascular relaxation**, Induction of a calcium-independent NO synthase by hypercholesterolaemia in the rabbit, 108, 290
- Vascular resistance**, The effects of  $N^G$ -nitro-L-arginine methyl ester, sodium nitroprusside and noradrenaline on venous return in the anaesthetized cat, 108, 933
- Vasculature, coronary**, Effects of pyrimidines on the guinea-pig coronary vasculature, 110, 1091
- Vasoactive intestinal peptides**, Effect of passive sensitization on the mechanical activity of human isolated bronchial smooth muscle induced by substance P, neurokinin A and VIP, 109, 131
- Effects of vasoactive intestinal polypeptide on antigen-induced bronchoconstriction and thromboxane release in guinea-pig lung, 109, 243
- Evidence against vasoactive intestinal polypeptide as the relaxant neurotransmitter in human cavernosal smooth muscle, 108, 497
- Mediators of nonadrenergic, noncholinergic inhibition in the proximal, middle and distal regions of rat colon, 108, 348
- Nitric oxide-dependent and -independent hyperaemia due to calcitonin gene-related peptide in the rat stomach, 110, 404
- Profile of capsaicin-induced mouse ear oedema as neurogenic inflammatory model: comparison with arachidonic acid-induced ear oedema, 110, 1614
- Regulation of NANC neural bronchoconstriction *in vivo* in the guinea-pig: involvement of nitric oxide, 108, 228
- The role of nitric oxide in cholinergic neurotransmission in rat trachea, 110, 816
- Vasoconstriction**, 5-HT<sub>1B</sub> receptors mediate potent contractile responses to 5-HT in rat caudal artery, 109, 609
- Investigations into the mechanism of vasoconstrictor action of the topical steroid betamethasone-17-valerate in the rat, 108, 544
- Mediation via different receptors of the vasoconstrictor effects of endothelins and sarafotoxins in the systemic circulation and renal vasculature of the anaesthetized rat, 108, 776
- Nitric oxide-mediated changes in vascular reactivity in pregnancy in spontaneously hypertensive rats, 110, 1184
- Vasodilatation**, Allopurinol and amlodipine improve coronary vasodilatation after myocardial ischaemia and reperfusion in anaesthetized dogs, 108, 342
- Effects of 5-HT-receptor and  $\alpha_2$ -adrenoceptor ligands on the haemodynamic response to acute central hypovolaemia in conscious rabbits, 109, 37
- Effects of interactions of naturally-occurring neuropeptides on blood flow in the rat knee joint, 108, 694
- Inhibitory actions of diphenyleneiodonium on endothelium-dependent vasodilatations *in vitro* and *in vivo*, 110, 1232
- Involvement of nitric oxide synthase in the delayed vasodilator response to ultraviolet light irradiation of rat skin *in vivo*, 109, 802
- Neurokinin-induced changes in pial artery diameter in the anaesthetized guinea-pig, 108, 146
- Nitric oxide-dependent and -independent hyperaemia due to calcitonin gene-related peptide in the rat stomach, 110, 404
- Pulmonary effects of endogenous and exogenous nitric oxide in the pig: relation to cigarette smoke inhalation, 110, 739
- Relaxing actions of corticotropin-releasing factor on rat resistance arteries, 108, 941
- Role of prostaglandins and nitric oxide in acute inflammatory reactions in guinea-pig skin, 110, 1515
- Role of tumour necrosis factor in the induction of nitric oxide synthase in a rat model of endotoxin shock, 110, 177
- Vascular and anti-platelet actions of 1,2- and 1,3-glycerol dinitrate, 110, 937
- Vasodilator tone**, Cerebral blood flow and cerebrovascular reactivity after inhibition of nitric oxide synthesis in conscious goats, 110, 428
- Vasodilators**, Comparison between carvedilol and captopril in rats with partial ablation-induced chronic renal failure, 109, 581
- Effects of chronic treatment with nitric oxide synthase inhibitors on regional haemodynamic responses to vasodilators in conscious Brattleboro rats, 109, 222
- Regional and cardiac haemodynamic effects of  $N^G,N^G$ -dimethyl-L-arginine and their reversibility by vasodilators in conscious rats, 110, 1457
- Vasopressin**, Protein kinase C inhibitors enhance endothelin-1 and attenuate vasopressin and angiotensin II evoked  $[Ca^{2+}]_i$  elevation in the rat cardiomyocyte, 108, 6
- Vasopressin V2 receptor antagonists**, Renal imidazoline preferring sites and solute excretion in the rat, 108, 870
- Veins, portal**, Antagonism of levcromakalim by imidazoline- and guanidine-derivatives in rat portal vein: involvement of the delayed rectifier, 110, 1556
- Effects of the novel potassium channel opener, UR-8225, on contractile responses in rat isolated smooth muscle, 110, 1165
- Induction of a glibenclamide-sensitive K-current by modification of a delayed rectifier channel in rat portal vein and insulinoma cells, 110, 1280
- Veins, portal, rabbit**, Evidence for the involvement of both ATP and nitric oxide in non-adrenergic, non-cholinergic inhibitory neurotransmission in the rabbit portal vein, 109, 606
- Single channel and whole-cell K-currents evoked by levcromakalim in smooth muscle cells from the rabbit portal vein, 110, 583
- Veins, portal, rat**, Effects of P1060 and aprikalim on whole-cell currents in rat portal vein; inhibition by glibenclamide and phenolamine, 108, 991
- Mediation by the same muscarinic receptor subtype of phasic and tonic contractile activities in the rat isolated portal vein, 108, 132
- Relation between  $\alpha_1$ -adrenoceptor subtypes and noradrenaline-induced contraction in rat portal vein smooth muscle, 110, 207
- Veins, saphenous, human**,  $\beta_1$ - and  $\beta_2$ -adrenoceptor-mediated relaxation in human internal mammary artery and saphenous vein: unchanged  $\beta$ - and  $\alpha$ -adrenoceptor responsiveness after chronic  $\beta_1$ -adrenoceptor blockade, 109, 1053
- Evidence for sympathetic neurotransmission through presynaptic N-type calcium channels in human saphenous vein, 110, 338
- Venous return**, The effects of  $N^G$ -nitro-L-arginine methyl ester, sodium nitroprusside and noradrenaline on venous return in the anaesthetized

- cat, 108, 933
- Ventral tegmental area**, Enhancement of D<sub>2</sub> receptor agonist-induced inhibition by D<sub>1</sub> receptor agonist in the ventral tegmental area, 110, 713
- A mechanism underlying dopamine D<sub>1</sub> and D<sub>2</sub> receptor-mediated inhibition of dopaminergic neurones in the ventral tegmental area *in vitro*, 109, 933
- Ventricle, guinea-pig**, Effects of beraprost on the transmembrane potentials of guinea-pig ventricular muscles during normoxia and hypoxia-reoxygenation, 109, 1014
- Ventricular cells, guinea-pig**, Cibenzoline inhibits diazoxide- and 2,4-dinitrophenol-activated ATP-sensitive K<sup>+</sup> channels in guinea-pig ventricular cells, 108, 549
- Effects of lisinopril on electromechanical properties and membrane currents in guinea-pig cardiac preparations, 109, 873
- Ventricular fibrillation**, Selective I<sub>K</sub> blockade as an antiarrhythmic mechanism: effects of UK66,914 on ischaemia and reperfusion arrhythmias in rat and rabbit hearts, 108, 139
- Ventricular function**, Electrophysiological effects of Org 7797 in the closed-chest anaesthetized dog, 110, 23
- Ventricular hypertrophy**, Protection by oestradiol against the development of cardiovascular changes associated with monocrotaline pulmonary hypertension in rats, 110, 719
- Ventricular muscle**, Effects of lisinopril on electromechanical properties and membrane currents in guinea-pig cardiac preparations, 109, 873
- Ventricular myocardium, rabbit**, Pharmacological characteristics of the positive inotropic effect of angiotensin II in the rabbit ventricular myocardium, 108, 999
- Ventricular myocytes**, Effects of propafenone on calcium current in guinea-pig ventricular myocytes, 108, 721
- Fendiline inhibits L-type calcium channels in guinea-pig ventricular myocytes: a whole-cell patch-clamp study, 108, 865
- Ventricular myocytes, guinea-pig**, Use-dependent block of Ca<sup>2+</sup> current by moricizine in guinea-pig ventricular myocytes: a possible ionic mechanism of action potential shortening, 108, 812
- Verapamil**, Evidence for sympathetic neurotransmission through presynaptic N-type calcium channels in human saphenous vein, 110, 338
- Modulation of vasodilatation to levromakalim by hypoxia and EDRF in the rabbit isolated ear: a comparison with pinacidil, sodium nitroprusside and verapamil, 109, 386
- Veratridine**, Characterization of 5-HT<sub>2</sub> receptors of N1E-115 neuroblastoma cells by use of the influx of the organic cation [<sup>14</sup>C]-guanidinium, 108, 436
- Villous vessels**, Vascular actions of purines in the foetal circulation of the human placenta, 110, 454
- Viral respiratory infections**, Virus-induced airway hyperresponsiveness in the guinea-pig: possible involvement of histamine and inflammatory cells, 108, 1083
- Virginiamycin**, Analysis of the CCK<sub>B</sub> receptor antagonism of virginiamycin in guinea-pig ileum longitudinal myenteric plexus, 108, 1164
- Vitamin E**, The effect of platelet-activating factor on the responsiveness of the human nasal airway, 110, 113
- Voltage-clamp**, The action of amlodipine on voltage-operated calcium channels in vascular smooth muscle, 109, 120
- Antagonism of levromakalim by imidazoline- and guanidine-derivatives in rat portal vein: involvement of the delayed rectifier, 110, 1556
  - Blockade by calmodulin inhibitors of Ca<sup>2+</sup> channels in smooth muscle from rat vas deferens, 109, 137
  - Caffeine-induced decreases in the inward rectifier potassium and the inward calcium currents in rat ventricular myocytes, 109, 895
  - Effects of cicletanine on whole-cell currents of single smooth muscle cells from the guinea-pig portal vein, 109, 164
  - Effects of P1060 and aprikalim on whole-cell currents in rat portal vein; inhibition by glibenclamide and phentolamine, 108, 991
  - Membrane current responses to externally-applied ATP in the longitudinal muscle of the chicken rectum, 110, 87
- Von Bezold-Jarisch reflex**, RS 23597-190: a potent and selective 5-HT<sub>1</sub> receptor antagonist, 110, 119
- W**
- Warfarin**, Human liver microsomal metabolism of the enantiomers of warfarin and acenocoumarol: P450 isozyme diversity determines the differences in their pharmacokinetics, 110, 482
- Water clearance**, The diuretic action of 8-cyclopentyl-1,3-dipropylxanthine, a selective A<sub>1</sub> adenosine receptor antagonist, 109, 271
- Water deprivation**, Comparison of the regional haemodynamic effects of the AT<sub>1</sub>-receptor antagonists, losartan and EXP 3174, in water-deprived Brattleboro rats, 108, 684
- Water reabsorption**, The diuretic action of 8-cyclopentyl-1,3-dipropylxanthine, a selective A<sub>1</sub> adenosine receptor antagonist, 109, 271
- WB 4101**, Investigation of the subtypes of α<sub>1</sub>-adrenoceptor mediating contractions of rat aorta, vas deferens and spleen, 109, 80
- Weaning**, Effect of delayed weaning on opioid receptor control of swim stress-induced antinociception in the developing rat, 109, 651
- WEB 2086**, Endothelin-induced contraction and mediator release in human bronchus, 110, 392
- Partial agonist effect of the platelet-activating factor receptor antagonists, WEB 2086 and WEB 2170, in the rat perfused heart, 110, 645
  - Relative contributions of direct and indirect mechanisms mediating endothelin-induced contraction of guinea-pig trachea, 110, 955
- WEB 2170**, Partial agonist effect of the platelet-activating factor receptor antagonists, WEB 2086 and WEB 2170, in the rat perfused heart, 110, 645
- Wheat germ agglutinin**, EDRF release from canine coronary artery by lectins, 110, 1473
- Whole-cell clamp technique**, Effects of propafenone on calcium currents in single ventricular myocytes of guinea-pig, 109, 178
- Whole-cell patch-clamp**, Differential properties of type I and type II benzodiazepine receptors in mammalian CNS neurones, 109, 819
- Whole-cell recording**, Caffeine and related compounds block inhibitory amino acid-gated Cl<sup>-</sup> currents in freshly dissociated rat hippocampal neurones, 109, 459
- Whole-cell voltage-clamp**, Block of potassium currents in rat isolated sympathetic neurones by tricyclic antidepressants and structurally related compounds, 110, 1126
- Effect of trimebutine on voltage-activated calcium current in rabbit ileal smooth muscle cells, 110, 399
  - 5-Hydroxyindole slows desensitization of the 5-HT<sub>2</sub> receptor-mediated ion current in N1E-115 neuroblastoma cells, 108, 287
  - Levromakalim may induce a voltage-independent K-current in rat portal veins by modifying the gating properties of the delayed rectifier, 110, 1037
- WIN 55,212-2**, Cross-tolerance between delta-9-tetrahydrocannabinol and the cannabimimetic agents, CP 55,940, WIN 55,212-2 and anandamide, 110, 1483
- X**
- Xanthine oxidase**, Arterial endothelial barrier dysfunction: actions of homocysteine and the hypoxanthine-xanthine oxidase free radical generating system, 108, 920
- Xenopus muscle cells**, Blockade by 2,2',2''-tripyridine of the nicotinic acetylcholine receptor channels in embryonic *Xenopus* muscle cells, 110, 163
- Xenopus oocytes**, Antiarrhythmic drugs, clofilium and cibenzoline are potent inhibitors of glibenclamide-sensitive K<sup>+</sup> currents in *Xenopus* oocytes, 109, 866
- Ionic effects on amiloride block of the mechanosensitive channel in *Xenopus* oocytes, 108, 116
  - Thiocyanate ions selectively antagonize AMPA-evoked responses in *Xenopus laevis* oocytes microinjected with rat brain mRNA, 109, 779
- Xylazine**, The spinal antinociceptive activity of the α<sub>2</sub>-adrenoceptor agonist, xylazine in sheep, 108, 907
- Y**
- Y-26763**, Antiarrhythmic drugs, clofilium and cibenzoline are potent inhibitors of glibenclamide-sensitive K<sup>+</sup> currents in *Xenopus* oocytes, 109, 866
- YM-26734**, Suppression of inflammatory responses to 12-O-tetradecanoyl-phorbol-13-acetate and carrageenin by YM-26734, a selective inhibitor of extracellular group II phospholipase A<sub>2</sub>, 110, 447
- Yohimbine**, α<sub>2</sub>-Adrenoceptor antagonist potencies of two hydroxylated metabolites of yohimbine, 108, 927

- Cloning and expression of a fish  $\alpha_2$ -adrenoceptor, 110, 54
  - *In vivo* microdialysis of noradrenaline overflow: effects of  $\alpha$ -adrenoceptor agonists and antagonists measured by cumulative concentration-response curves, 109, 655
  - Modulation of central noradrenergic function by RS-15385-197, 108, 526
  - The pharmacology of RS-15385-197, a potent and selective  $\alpha_2$ -adrenoceptor antagonist, 108, 516
- Yohimbine metabolites**,  $\alpha_2$ -Adrenoceptor antagonist potencies of two hydroxylated metabolites of yohimbine, 108, 927

## Z

**Zacopride**, Functional characterization of a 5-HT<sub>3</sub> receptor which modulates the release of 5-HT in the guinea-pig brain, 108, 13

**Zaprinast**, The effect of cyclic AMP and cyclic GMP phosphodiesterase inhibitors on the superoxide burst of guinea-pig peritoneal macrophages, 108, 876

**Zatebradine**, Inhibitory actions of ZENECA ZD7288 on whole-cell hyperpolarization activated inward current ( $I_p$ ) in guinea-pig dissociated sinoatrial node cells, 110, 343

**ZD1542**, ZD1542, a potent thromboxane A<sub>2</sub> synthase inhibitor and receptor antagonist *in vitro*, 110, 1600

**ZD7288**, Inhibitory actions of ZENECA ZD7288 on whole-cell hyperpolarization activated inward current ( $I_p$ ) in guinea-pig dissociated sinoatrial node cells, 110, 343

**ZD7114**, Zeneca ZD7114 acts as an antagonist at  $\beta_3$ -adrenoceptors in rat isolated ileum, 110, 1375

**Zymosan**, Characterization and pharmacological modulation of antigen-induced peritonitis in actively sensitized mice, 110, 917

# **British Journal of Pharmacology**

Instructions to Authors	3
Nomenclature Guidelines for Authors	11
Index to Volumes 108, 109 and 110	
Author Index	15
Subject Index	41

**1993**