

Edited for the British Pharmacological Society by

A.W. Cuthbert (*Chairman*) A. Ungar (*Secretary*)
Margaret Day (*Press Editor*)
J.D. Stephenson (*Assistant Press Editor*)

A.M. Barrett	J.S. Kelly
G.W. Bisset	B.J. Large
A.G.H. Blakeley	G.M. Lees
T.B. Bolton	G.P. Lewis
N.G. Bowery	I.H.M. Main
D.A. Brown	I. Marshall
Julia Buckingham	K. Martin
B.A. Callingham	D.F.J. Mason
T.J. Crow	E.K. Matthews
F. de Matteis	T.C. Muir
V. Eisen	Winifred G. Nayler
E.W. Gill	J.R. Parratt
A.F. Green	C.D. Richards
A.R. Green	M. Sandler
E.W. Horton	A.P. Silverman
J. Hughes	M.A. Simmonds
R. Jones	R.A. Webster
P. Withrington	

Papers will be considered for publication on all aspects of drug action, including chemotherapy.

Manuscripts (two copies) should be sent to Dr A. Ungar, Department of Pharmacology, University of Edinburgh Medical School, 1 George Square, Edinburgh EH8 9JZ. Authors should consult the instructions inside the back cover.

The British Journal of Pharmacology is published monthly by Macmillan Journals Ltd, 4 Little Essex Street, London WC2R 3LF. Telephone: 01-836 6633, ISSN 0007-1188.

Annual subscription UK £52.50; USA & Canada, US \$115; Rest of world, US \$105; Airmail, US \$140 (or equivalent in any other currency). (Orders must be accompanied by remittance. Prices correct at time of publication.)

Cheques should be made payable to Macmillan Journals Limited: Subscription Department, Brunel Road, Basingstoke, Hampshire RG21 2XS, England. Where appropriate, overseas subscribers may make payments into UK Post Office Giro Account No. 519 2455. Full details must accompany the payment.

Enquiries concerning advertising space and rates should be addressed to: Advertisement Department, Macmillan Journals Limited, 4 Little Essex Street, London WC2R 3LF. Telephone: 01-836 6633.

Copyright © 1979 by the *British Journal of Pharmacology*. All rights of reproduction are reserved in respect of all papers, articles, illustrations, etc., published in this journal in all countries of the world.

Second class postage paid at New York, N.Y.
US Mailing Agent: Expeditors of the Printed Word, Inc.,
Suite 1217, 527 Madison Avenue, New York, NY 10022.

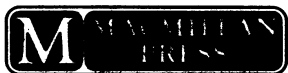
Psychotropic Drugs

H. M. van Praag

In this volume an internationally recognised authority on the subject presents a comprehensive, highly practical survey of the entire range of psychotropic drugs, including the pharmacotherapy of psychoses, of disturbances in mood regulation and of disturbances in personality organisation.

£12.00; 492pp; 0 333 24643 8

For further details please write to
Rosemary David, The Macmillan Press, Little
Essex Street, London WC2R 3LF.



Pharmacology of the Hypothalamus

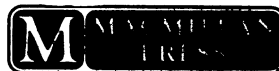
A British Pharmacological Society Symposium
Edited by B. Cox, I. D. Morris and A. H. Weston

There has been considerable research activity recently dealing with the hypothalamus and its surrounding areas, but there has been no review of the pharmacological implications of the work. This volume is designed to fill the gap.

It is written by an internationally recognised group of contributors and covers many aspects of hypothalamic pharmacology and its clinical relevance.

£12.95; 288pp; 0 333 22606 2

For further information, please write to
Rosemary David, The Macmillan Press, 4 Little Essex
Street, London WC2R 3LF



British Journal of Pharmacology

British Journal of Pharmacology provides up-to-date research on all aspects of drug action essential to those involved in pharmacology. Ensure you receive this information each month by taking a subscription.

Subscription Dept, Macmillan Journals Ltd, Brunel Road, Basingstoke, Hants RG21 2XS, England.

Please enter me for a year's subscription to the BRITISH JOURNAL OF PHARMACOLOGY starting with the issue dated

I enclose payment of £57.50; USA & Canada, US \$130; Rest of world, US \$120; Airmail, US \$165 (or equivalent in any other currency).

Prices correct at time of publication. Payment may be made in any currency at the current exchange rates. Orders can only be processed if accompanied by the correct remittance. Cheques should be made payable to Macmillan Journals Ltd.

Name

Address

.
.
.
.

Registered No: 785998 England Registered Office: 4 Little Essex St., London WC2R 3LF

INSTRUCTIONS TO AUTHORS

Papers will be considered for publication on all aspects of drug action.

Before submitting a manuscript, authors must note the following points since failure to comply with instructions will lead to either delay or rejection of the manuscript.

1. **Manuscripts** (2 copies) should be sent to Dr. A. Ungar, Department of Pharmacology, 1 George Square, Edinburgh EH8 9JZ. The manuscript must be typed in double spacing on one side of paper, not larger than A4 (206 × 294 mm). There should be a separate title page with the names of authors (in alphabetical order) and their appropriate addresses. One first name of each author may be included.

2. **Style** Papers must be submitted in the style of the journal (see any recent issue of the journal) and in accordance with the Instructions to Authors published in *Br. J. Pharmac.* (1974) **50**, 3–23. (Copies of these instructions may be obtained from Dr. Ungar.)

3. **Statement** The manuscript must be accompanied by the following statement—‘This manuscript has not been nor will be published in whole or in part by any other journal’. The statement may be included as part of the accompanying letter which must be signed by all authors. No paper will be accepted without this statement and the signatures of each author.

4. **Summary** (2 copies) This should be a short summary of results and conclusions arranged in numbered paragraphs.

5. **Abstract** (2 copies) An abstract of not more than 100 words suitable for inclusion in an abstracting journal should be typed on a separate sheet, giving the author's name and address and the title of the paper.

6. **Short title** A short (running) title of not more than 50 letters and spaces should be submitted. This may be typed on the title page.

7. **Figures** These should not be larger than A4 (206 × 294 mm) and may be in the form of original drawings, recorded tracings or high quality photographic prints made from them. Negative prints of kymograph tracings (black on white) should be provided, and both ordinates and abscissae should be calibrated. Lettering on figures should be inserted in pencil. Symbols which are to appear in figures or legends should be chosen from the following:



Photographs and photomicrographs should be printed on glossy paper and should be larger than the size required for reproduction. Each figure legend should be typed on a separate sheet of paper.

8. **Tables** These should generally have not more than 85 characters to a line (counting spaces between columns as 4 characters) and never more than 110 characters to a line. Each table should be typed on a separate sheet of paper.

9. **References** These must be collected in alphabetical order at the end of the paper. They should include the authors' names, year of publication (in brackets), title of article, title of publication (abbreviated in accordance with the fourth edition of the *World List of Scientific Periodicals*), volume number and first and last page numbers. References to books should, in addition, include the names of editors, the edition number (where appropriate), the town of origin then the name of publisher. Where citation is made to a paper 'in press' the paper should, if possible, accompany the manuscript, as an aid to the editor and referee.

10. **Short Communications** These will be accepted if they merit priority publication and do not require revision. They may contain up to 1,200 words of text and only one figure or table. The summary should be a single paragraph. An abstract and statement must be included.

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

Twenty-five reprints will be supplied to the authors free of charge. Additional reprints can be purchased. A reprint order form, which should be returned promptly, will be sent out with the proofs. If reprints will not be available from the author, a note to this effect may be added at the end of the text.

British Journal of Pharmacology

VOLUME 65 NUMBER 1 JANUARY 1979

SHORT COMMUNICATION

- 3 OKA, TETSUO & SAWA, AIKO Calcium requirements for electrically-induced release of an endogenous opiate receptor ligand from the guinea-pig ileum

MAIN PAPERS

- 7 BOWEN, S.R. & CARPENTER, F.G. Morphine depression and tolerance of nerve-induced parotid secretion
- 5 DAGE, R.C. A centrally mediated prolonged hypotension produced by oxotremorine or pilocarpine
- 3 GORCHEIN, A., MITCHELL, L.D. & ROGERS, A.T. Pharmacological properties of kryptopyrrole and its oxidation products on isolated sciatic nerve of rat and on guinea-pig ileum
- 9 O'BRIEN, P.M. SHAUGHN & BROUGHTON PIPKIN, FIONA The effects of deprivation of prostaglandin precursors on vascular sensitivity to angiotensin II and on the kidney in the pregnant rabbit
- 5 BURKA, J.F. & FLOWER, R.J. Effects of modulators of arachidonic acid metabolism on the synthesis and release of slow-reacting substance of anaphylaxis
- 3 POOLE, S. & STEPHENSON, J.D. Effects of noradrenaline and carbachol on temperature regulation of rats
- 3 HORN, A.S., LAMBERT, J.J. & MARSHALL, I.G. A comparison of the facilitatory actions of 4-aminopyridine methiodide and 4-aminopyridine on neuromuscular transmission
- 3 BERESFORD, ROSEMARY, BILLS, G.N.B., FASTIER, F.N. & MILNE, R.J. Effects of 2,4-dinitrophenol amylobarbitone and certain other drugs on the rate of oxygen consumption and force of contraction of isolated curarized diaphragm muscle of the rat
- 71 SUNAHARA, F.A. & TALESNIK, J. Myocardial synthesis of prostaglandin-like substances and coronary reactions to cardiostimulation and to hypoxia
- 87 HIRST, B.H., LUND, P. KAY, REED, THE LATE J.D., SANDERS, D.J., SHAW, B. & TAYLOR, W. Effects of a combined oestrogen-progestin preparation on gastric acid and pepsin secretion, serum gastrin concentration and biliary secretion of bile acids, phospholipids, and cholesterol in the cat
- 97 BROWN, C., BURNSTOCK, G. & COCKS, T. Effects of adenosine 5'-triphosphate (ATP) and β - γ -methylene ATP on the rat urinary bladder
- 103 JOHANSEN, TORBEN Utilization of adenosine triphosphate in rat mast cells during histamine release induced by the ionophore A23187
- 111 BARBIERI, EDWARD J., & CIACCIO, EDWARD I. Depression of drug metabolism in the mouse by a combination of *Mycobacterium butyricum* and anaesthetics
- 117 SORIMACHI, MASARU & YOSHIDA, KEN-CHI Exocytotic release of catecholamines and dopamine- β -hydroxylase from the perfused adrenal gland of the rabbit and cat
- 127 FLYNN, SHEILA B., GRISTWOOD, R.W. & OWEN, D.A.A. Differentiation of the roles of histamine H₁- and H₂-receptors in the mediation of the effects of histamine in the isolated working heart of the guinea-pig
- 139 GIBSON, A., GINSBURG, M., HALL, M. & HART, S.L. The effects of opiate receptor agonists and antagonists on the stress-induced secretion of corticosterone in mice
- 147 BAKHLE, Y.S. & YODIM, M.B.H. The metabolism of 5-hydroxytryptamine and β -phenylethylamine in perfused rat lung and *in vitro*
- 155 AGGERBECK, MARTINE, GUELLAËN, GEORGES & HANOUNE, JACQUES n-aralkyl substitution increases the affinity of adrenergic drugs for the α -adrenoceptor in rat liver