

AIMS AND SCOPE

BIOCHEMICAL PHARMACOLOGY is an international journal which publishes original research in the form of full-length papers, short communications, preliminary communications and invited commentaries.

Research with intact animals, cells, subcellular components, enzymes and model systems is acceptable if it defines the mechanism of drug action. Studies concerned with antimicrobial and antiviral agents are welcomed, as well as descriptive mathematical models including those involving computer techniques. The use of drugs to elucidate physiological and behavioural mechanisms in the living organism is also acceptable.

In general, papers which record concentrations of drugs and metabolites in body fluids will not be accepted, unless they define biochemical and biophysical mechanisms; however, the Editors reserve the right to publish any papers of major interest in the field.

1. A **Full-length Paper** represents a body of work presenting original findings relating to the question proposed by the investigators undertaking the research.

2. A **Short Communication** represents an original body of work of narrower scope but of the same quality as the above. By definition, these papers are shorter than full-length manuscripts. The last paragraph of the communication should summarize the findings of the research.

3. **Preliminary Communications** promote rapid dissemination of timely and significant observations within the scope of the Journal. Manuscripts must be submitted in English and will be judged as appropriate for publication as Preliminary Communications on the basis of their immediate importance. They should be written to emphasize clearly the novel aspects of the research. These criteria will be applied strictly.

4. **Commentaries** are short commissioned review articles (3000–5000 words in length). Two Consulting Editors deal with these. Professor Z. M. Bacq for Europe and the Eastern Hemisphere and Professor P. A. Shore for the United States and the Western Hemisphere. Commentaries are not to be exhaustive reviews but short articles (mini-reviews) intended to stimulate thought. They can be controversial and can either focus on areas in which there is much activity or draw attention to relatively neglected fields in which there are opportunities for research in biochemical pharmacology. Particularly welcome will be commentaries where authors give their personal view on the state of the subject on which they are reporting and give a view as to where in the near or distant future the subject may be moving. Authors are encouraged to take issue with popular dogmas.

NOTES FOR CONTRIBUTORS OF FULL-LENGTH PAPERS AND SHORT COMMUNICATIONS

Submission of Contributions

Contributions should be sent to a Regional Editor; addresses are given inside the front cover. Papers from the Americas should be sent to Professor A. C. Sartorelli, papers from continental Europe to Dr. J. Gielen, papers from the United Kingdom to Professor P. Alexander, and papers from the rest of the world to either Professor A. C. Sartorelli or Professor P. Alexander. The Editors welcome submission by the authors of the names and addresses of 5 or 6 individuals who could, in their opinion, expertly review their submitted manuscript. The Editors of course reserve the right to use reviewers of their choice.

Form of Contributions

Full-length papers should be submitted in English with an abstract summarizing briefly the essential contents. The manuscript (including figure captions and references) should be sent in triplicate and should be typed on one side of the paper, double-spaced and with wide margins. The form generally accepted by learned societies should be followed: Abstract, Introduction, Methods, Results and Discussion. In the case of Short Communications, these sections may be combined, e.g. Methods and Results or Results and Discussion; there should be no abstract but a short summary at the end. Short Communications should be no more than approximately 6 double-spaced typed pages and a total of 3 Tables and Figures. For abstracting purposes, *please include the first name of each author of a paper to be published in the Journal*. The original manuscript and diagrams will be discarded 1 month after publication unless the publisher is requested to return original material to the author. *Contributors are requested to indicate clearly on the title page of the manuscript the name and address of the author to whom proofs and correspondence should be sent.*

Proofs and Reprints

A reprint order form will be supplied with page proofs sent to the authors for checking. *Any corrections to proofs must be restricted to printer's errors*; other than these, any substantial changes at this stage may be charged to the author.

Nomenclature and Abbreviations

Where possible, nomenclature and abbreviations should be in accord with internationally agreed rules. When an enzyme or compound is first mentioned in the text, specification by its code number accompanied by its systematic name (as distinct from its trivial name) is requested by the Editors, but not checked for correctness. Official names of drugs are preferred to trade names.

The following abbreviations may be used without definition, except in titles: CoA (for coenzyme A), EDTA, CNS, Tris (for 2-amino-2-hydroxymethylpropane-1:3-diol), DNA, RNA, FAD, NAD (*not* DPN, for nicotinamide adenine dinucleotide), NADP (*not* TPN). Accepted abbreviations may be used for 5'-ribonucleotides (GMP, IDP, UTP, etc.), and 5'-deoxyribonucleotides (dAMP, dCDP, dTTP, etc.). All other abbreviations used must be given in a footnote on the title page of the article.

Temperatures denoted by an unqualified degree symbol ° are assumed to be centigrade. For solution strengths, percentages should be expressed by the sign %, followed in cases of ambiguity by w/w, w/v, or v/v (e.g. 5% (w/v) means 5 g/100 ml). In spectrophotometry, extinction (E) should be used, rather than optical density.

The following sources give useful guidance on the preparation of manuscripts:

1. Suggestions and Instructions to Authors, *Biochem. J.* **169**, 1 (1978). It is particularly requested that authors follow the instructions on isotopically labelled compounds.
2. Terminology and Abbreviations, *J. biol. Chem.* **238**, 6 (1963).

3. International Union of Biochemistry, *Enzyme Nomenclature*, Elsevier, 1973.
4. *Style Manual for Biological Journals*, American Institute of Biological Sciences, 2000 P Street, N.W., Washington, D.C. 20036.

Illustrations

Illustrations for reproduction normally should be about twice the final size required. They should be separate from the typescript with captions typed together on a separate sheet. Illustrations should not be pasted to separate sheets of paper. Photographs should be included only when they are essential and must be in the form of good quality glossy prints. Wherever possible, line diagrams should be in the form of good quality originals or clear photoprints from which it is possible to make direct reproductions.

Tables

Authors are asked to keep tabular matter to a minimum. Each table and every column should be provided with an explanatory heading, with units of measure clearly indicated. The same data should not be reproduced in both tables and figures. Footnotes to a table should be indicated by the same symbols used in the text. Tables and illustrations should be completely intelligible without reference to the text.

References

References are made by consecutive numbers in square brackets in the text, the full reference being cited in a numbered list at the end of the paper. References should contain the names and initials of *all* the authors of each paper, together with the abbreviated journal title, the volume number, first page number and the year, as follows:

1. R. Tapia, H. Pasantes, B. G. Ortega and G. H. Massieu, *Biochem. Pharmac.* **15**, 1831 (1966).
2. F. Cedrangolo, in *Chemical and Biological Aspects of Pyridoxal Catalysis* (Eds. E. E. Snell, P. M. Fasella, A. E. Braunstein and A. Rossi Fanelli), p. 343. Pergamon Press, Oxford (1963).

The titles of journals should be abbreviated in accordance with the 4th edn. of *The World List of Scientific Periodicals*.

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Footnotes, as distinct from literature references, should be indicated by the following symbols: *, †, ‡, §, ||, ¶, starting afresh on each page. They should not be included in the numbered reference system. Footnotes should be used for references to unpublished work (including work submitted for publication), personal communications, proprietary names of trade-marked drugs and other material not appropriately referred to in the text or in the numbered reference list, but should be kept to a minimum.

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The typewritten manuscript of a Preliminary Communication is reproduced *photographically*, and each communication is a separate entity: an odd number of pages results in a blank page, which costs almost as much to produce as a full page. In general, only papers of 2 or 4 pages will be accepted.

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2. Any good quality paper may be used, provided the actual typing area is 20 cm (7 $\frac{3}{4}$ in.) by 31 cm (12 $\frac{1}{4}$ in.), the margins being provided during reproduction. Such paper can be supplied on request to the Regional Editor. The title should be typed in *capital letters*, centred on the width of page 1 with the title at least 5 cm (2 in.) from the top of the page. After a two-line (quadruple) space, the author's name should be typed, and after a one-line (double) space, the author's address should be typed, capitalizing the first letter of all main words. A three-line (sextuple) space following the author's address should be left before typing the text of the article. The typing area of page 1, including the title, should be 20 cm (7 $\frac{3}{4}$ in.) wide by 29 $\frac{1}{2}$ cm (11 $\frac{1}{2}$ in.) deep. The typing area of *all* other pages should be extended to a depth of 31 cm (12 $\frac{1}{4}$ in.).

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To reduce production time for Preliminary Communications, please indicate the number of reprints (lots of 100) required *when submitting* the manuscript. Orders received after a particular issue has been printed will be delayed and a separate price quotation will be necessary.

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Preliminary Communications from the Americas should be submitted in duplicate to Professor A. C. Sartorelli. From Europe authors are advised to submit communications in duplicate to one of the Preliminary Communications Editors listed on the inside back cover. This will expedite publication. Alternatively, communications may be submitted to either Dr. J. Gielen or Professor P. Alexander. Authors from all other countries may follow either procedure.

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- WOLFGANG LÖSCHER 1397 3-Mercaptopropionic acid: Convulsant properties,
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| TIMOTHY R. FENNELL,
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| STEVEN W. LESLIE, STEVE V. ELROD,
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| MORRIS S. ZEDECK | 1440 | Incorporation of ψ -isocytidine, a new antitumour C-nucleoside, into mammalian RNA and DNA |
| RICHARD L. MOMPALER and
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| B. KHODOROV | 1451 | Some aspects of the pharmacology of sodium channels in nerve membrane. Process of inactivation |
| ROBIN J. SHIRKEY, JOHN KAO,
JEFFREY R. FRY and JAMES W. BRIDGES | 1461 | A comparison of xenobiotic metabolism in cells isolated from rat liver and small intestinal mucosa |
| WILLIAM E. WHITE, JR. and
MAUREEN D. DOLLINGER | 1467 | Growth of thymine auxotrophs on selected analogs |
| ILYA B. TSYRLOV, NATALY E. POLYAKOVA,
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| BRUCE J. AUNGST, ELLIOT S. VESELL
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| THEODORE DASHMAN and
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| GERALD W. CRABTREE,
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| DAVID J. CRUTCHLEY,
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| EUGENE M. JOHNSON and
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| ANTONIO MORELLO and MOISES AGOSIN | 1533 | Metabolism of juvenile hormone with isolated rat hepatocytes |
| WILLIAM D. ENSMINGER and
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| LAWRENCE LUMENG,
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| HENRY K. BORYS and RALPH KARLER | 1553 | Cannabidiol and Δ^9 -tetrahydrocannabinol metabolism— <i>In vitro</i> comparison of mouse and rat liver crude microsome preparations |
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| ROBERT E. KRAMER,
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| PAUL F. TORRENCE,
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| H. N. A. FRAVAL and J. J. ROBERTS | 1575 | G ₁ Phase Chinese hamster V79-379A cells are inherently more sensitive to platinum bound to their DNA than mid S phase or asynchronously treated cells |
| PETER C. BRAGT and IVAN L. BONTA | 1581 | <i>In vivo</i> metabolism of [1- ¹⁴ C]arachidonic acid during different phases of granuloma development in the rat |
| DAN HULTMARK, KARIN SUNDH,
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| KIRSI VÄHÄKANGAS and
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| JAYSREE SUR, TAPATI CHATTERJEE and
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| ILONA LINNOILA, TAKASHI ABE,
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RICHARD P. DI AUGUSTINE | 1601 | Coupling of amines to and cross-linking of endogenous cytosol or membrane proteins by hepatic transglutaminase |

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| IDA S. OWENS, GLENN M. KOTEEN and
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| IDA S. OWENS,
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| J. WILLIAM LOWN and
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| DAVID PARKINSON and
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| M. LAMBOTTE-VANDEPAER,
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F. PONCELET, M. ROBERFROID and
M. MERCIER | 1653 | Styrene induced modifications of some rat liver enzymes involved in the activation and inactivation of xenobiotics |
| STANLEY C. CHENG and
RONALD S. PARDINI | 1661 | Inhibition of mitochondrial respiration by model phenolic compounds |
| YURIY V. BUKIN,
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WALTER KORYTNYK | 1669 | Potentiating action of 4-vinylpyridoxal on inhibition of serine transhydroxymethylase by D-cycloserine and its dimer |
| MICHAEL R. BOARDER and
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| Short Communications | | |
| JUTTA LOHBREIER-DÖRR and
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| ARLEEN B. RIFKIND, MELODY TROEGER
and TONIA PETSCHKE | 1681 | Equality of the rates of mixed function oxidation in livers of male and female chick embryos |
| BRANKO BRDAR, MIHA JAPELJ and
JOŽE KOBE | 1683 | Antiviral activities of novel bridgehead C-nucleosides |
| JOHN J. STEGEMAN and
ROBERT L. BINDER | 1686 | High benzo[a]pyrene hydroxylase activity in the marine fish <i>Stenotomus versicolor</i> |
| MARY M. FEDERICI and
FREDERICK J. LOTSPEICH | 1689 | Inhibitors of ATP: L-methionine S-adenosyltransferase—L-Methionine analogues |
| Preliminary Communications | | |
| CHANDRA H. MISRA | 1695 | Effect of morphine on cysteine oxidase activity in the brain and reproductive tract of rats |
| CHRISTOPHER B. GEORGE and
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| | 1703 | First International Conference on Immunopharmacology; Twelfth Miles International Symposium; Gordon Research Conferences |

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| BRIAN W. METCALF | 1705 | Inhibitors of GABA metabolism |
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| ABDULAZIM S. SALHAB,
HAJIME YASUHARA and
CARLOS A. DUJOVNE | 1713 | Surface activity, cellular uptake and cytotoxicity of tricyclic psychoactive drugs <i>in vitro</i> |
| HIDEO KUREBAYASHI, AKIRA TANAKA
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| HERMAN AUTRUP | 1727 | Separation of water-soluble metabolites of benzo-[a]pyrene formed by cultured human colon |
| THOMAS P. A. DEVASAGAYAM,
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and JACOB EAPEN | 1731 | Induction of rat liver microsomal enzymes by cycloheximide |
| STEPHEN T. SAWYER and
JOHN W. GREENAWALT | 1735 | Association of monoamine oxidase with lipid—A comparative study of mitochondria from Novikoff hepatoma and rat liver |
| LAURENCE R. MEYERSON,
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KENNETH D. MCMURTREY and
VIRGINIA E. DAVIS | 1745 | Stereoselective enzymatic <i>O</i> -methylation of tetra-hydropapaveroline and tetrahydroxyberbine alkaloids |
| HENG LIEM, ANN SMITH and
URSULA MULLER-EBERHARD | 1753 | Effect of desferrioxamine and chronic iron deficiency on heme metabolism—Comparison with the porphyr-ogens 2-allyl-2-isopropylacetamide and 3,5-diethoxy-carbonyl-1,4-dihydrocollidine |
| THOMAS L. SMITH and
GEORGE HAUSER | 1759 | Tricyclic antidepressants and imidazolines as inhibi-tors of the alpha-adrenergic receptor mediated stimulation of phosphatidylinositol turnover in rat pineal gland |
| DAVID LAGUNOFF and HELEN WAN | 1765 | Inhibition of histamine release from rat mast cells by cytochalasin A and other sulfhydryl reagents |
| HIDEO NAKAGAWA, KENJI OHKOSHI
and SUSUMU TSURUFUJI | 1771 | Selective inhibition of collagen synthesis by D-penicillamine in carrageenin-induced inflammation in rats |
| TSUTOMU SHIMADA and RYO SATO | 1777 | Inhibition of mono-oxygenase activities by 1,1,1-trichloropropene 2,3-oxide, an inhibitor of epoxide hydrase, in rat liver microsomes |
| GEORGE R. PETERSON,
RUSSELL M. HOSTETLER,
THOMAS LEHMAN and
H. PATRICK COVAULT | 1783 | Acute inhibition of oxidative drug metabolism by propoxyphene (Darvon) |
| RODNEY L. JOHNSON,
ALAN M. POISNER
and ROBERT D. CRIST | 1791 | Partial purification and chromatographic properties of inactive renin from human amniotic fluid |
| Short Communications | | |
| HASAN MUKHTAR,
JULIAN E. A. LEAKEY,
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JAMES R. FOUTS and JOHN R. BEND | 1801 | Precocious development of hepatic glutathione <i>S</i> -transferase activity with glucocorticoid adminis-tration in neonatal rat |
| PAMELA A. DAVIS,
JUDITH BAIRD-LAMBERT,
KENNETH M. TAYLOR and
JOHN A. MACLAREN | 1803 | Serotonergic activity of a novel tetrahydro- β -carboline |
| KAZUO T. SUZUKI and
MITSURU YAMAMURA | 1806 | Degradation and re-synthesis of injected liver cadmium-thioneins in rat kidney |
| MICHAEL T. PIASCIK,
PETER OSEI-GYIMAH,
DUANE D. MILLER
and DENNIS R. FELLER | 1807 | Beta-adrenoceptor blocking activity of 1-substituted trimetoquinol analogs |
| Preliminary Communication | | |
| BERNARD P. ROQUES,
DIDIER PELAPRAT,
IRÈNE LE GUEN, GISÈLE PORCHER,
CHARLES GOSSE and
JEAN-BERNARD LE PECQ | 1811 | DNA bifunctional intercalators: Antileukemic ac-tivity of new pyridocarbazole dimers |
| Erratum | 1816 | |

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Dedicated to Arnold D. Welch on the occasion of his 70th birthday

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| ALAN C. SARTORELLI | 1817 | Introduction |
| JUNE KAN-MITCHELL and
WILLIAM H. PRUSOFF | 1819 | Studies of the effects of 5-iodo-2'-deoxyuridine on the formation of adenovirus type 2 virions and the synthesis of virus-induced polypeptides |

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- JULIAN J. JAFFE and LYNN R. CHRIN 1831 Thymidylate synthetase activity in normal and *Brugia pahangi*-infected *Aedes aegypti*
- JAN ŠKODA, IVAN VOTRUBA and JIŘI FARKAS 1837 Mechanism of inhibitory effects of 2,3-dihydro-1,3,6H-oxazine-2,6-dione (3-oxauracil). Biosynthesis of 3-oxauridine phosphates in intact cells and cell-free extracts of *Escherichia coli*
- BRIAN I. LORD, ERIC G. WRIGHT and LASZLO G. LAJTHA 1843 Actions of the haemopoietic stem cell proliferation inhibitor
- MARVIN M. CHASSIN, RICHARD H. ADAMSON, DANIEL W. ZAHAREVITZ and DAVID G. JOHNS 1849 Enzyme inhibition titration assay for 2'-deoxycytosine and its application to the study of the relationship between drug concentration and tissue adenosine deaminase in dogs and rats
- DONALD F. KENNEDY and ANTHONY P. MATHIAS 1857 Characterization of rat liver nuclei isolated in anhydrous media and their fractionation using non-aqueous gradients
- HELMUTH VORHERR, ROBERT H. MESSER, UTE F. VORHERR, SCOTT W. JORDAN and MARIO KORNFELD 1865 Teratogenesis and carcinogenesis in rat offspring after transplacental and transmammary exposure to diethylstilbestrol
- AKEMICHI BABA, JASON S. FISHERMAN and JACK R. COOPER 1879 Action of sulfhydryl reagents on cholinergic mechanisms in synaptosomes
- SUSANNE KYBURZ, JEAN-CLAUDE SCHAEER and RICHARD SCHINDLER 1885 Effects of methotrexate on thymidine triphosphate levels in Chinese hamster cell cultures
- ROBERT J. LEVINE 1893 Regulation of the use of human tissues and body fluids as research materials—Current modifications
- PETER K. CHIANG and GIULIO L. CANTONI 1897 Perturbation of biochemical transmethylation by 3-deazaadenosine *in vivo*
- THOMAS J. J. BLANCK and C. NORMAN GILLIS 1903 β -Adrenergic receptor ligand binding by rabbit lung
- ALEXANDROS MAKRIYANNIS, JOCELYN M. THEARD and HENRY G. MAUTNER 1911 A direct approach to the determination of the rotational barriers of the acetylcholine and choline molecules
- YOUNG-NAM CHA and ERNEST BUEIDING 1917 Effect of 2(3)-*tert*-butyl-4-hydroxyanisole administration on the activities of several hepatic microsomal and cytoplasmic enzymes in mice
- GONZALO BUSTOS and ROBERT H. ROTH 1923 Tyrosine hydroxylase regulation in rat striatal and olfactory tubercle slices—I. Activation induced by exposure to a calcium-free and high-magnesium medium
- PAUL CALABRESI, DANIEL L. DEXTER and GLORIA H. HEPPNER 1933 Clinical and pharmacological implications of cancer cell differentiation and heterogeneity
- TAG E. MANSOUR and JOAN M. MANSOUR 1943 Effect of some phosphodiesterase inhibitors on adenylate cyclase from the liver fluke, *Fasciola hepatica*
- JAMES A. BENNETT and MALCOLM S. MITCHELL 1947 Induction of suppressor cells by intravenous administration of bacillus Calmette-Guérin and its modulation by cyclophosphamide
- MARJORIE W. MYERS-ROBFEL, ZOE N. CANELLAKIS, VINCENT H. BONO, JR., ROBERT L. DION, LINDA S. CUNNINGHAM and ALAN C. SARTORELLI 1953 Surface alterations of P388 leukemia cells by 2-deoxy-D-glucose
- GERALD A. HIGGS, RODERICK J. FLOWER and JOHN R. VANE 1959 A new approach to anti-inflammatory drugs
- CHAKA C. IMPRAIM, KINGSLEY J. MICKLEM and CHARLES A. PASTERNAK 1963 Calcium, cells and virus—Alterations caused by paramyxoviruses
- EVANGELOS S. CANELLAKIS and TEH-KUEI CHEN 1971 Relationship of biochemical drug effects to their antitumor activity—I. Diacridines and the cell membrane
- ROBERT E. HANDSCHUMACHER and JOHN COLERIDGE 1977 Hepatic and biliary transport of orotate and its metabolic consequences

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- JOSEPH R. BERTINO, W. L. SAWICKI, 1983 2,4-Diamino-5-methyl-6-[(3,4,5-trimethoxyanilino)methyl]quinazoline (TMQ), a potent non-classical folate antagonist inhibitor—I. Effect on dihydrofolate reductase and growth of rodent tumors *in vitro* and *in vivo*
B. A. MOROSON, A. R. CASHMORE
and E. F. ELSLAGER

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- HALVOR N. CHRISTENSEN 1989 Developments in amino acid transport, illustrated for the blood-brain barrier

Research Papers

- TETSUYA KAMATAKI, 1993 Purification and properties of cytochrome P-450 and NADPH-cytochrome *c* (P-450) reductase from human liver microsomes
MASAHIKO SUGIURA,
YASUSHI YAMAZOE and
RYUICHI KATO
- HARRI VAINIO and EIVOR ELOVAARA 2001 The interaction of styrene oxide with hepatic cytochrome P-450 *in vitro* and effects of styrene oxide inhalation on xenobiotic biotransformation in mouse liver and kidney
- PAUL-HENRY SCHMELCK, 2005 FM₂₄: A long lasting blocker of rat liver β -adreno-receptors
PHILIPPE GEYNET, GERARD LE FUR,
JEAN-CLAUDE HARDY, ANDRÉ UZAN
and JACQUES HANOUNE
- PETER HUNT, JEAN-PIERRE RAYNAUD, 2011 Dopamine uptake inhibitors and releasing agents differentiated by the use of synaptosomes and field-stimulated brain slices *in vitro*
MARGRET LEVEN and ULRICH SCHACHT
- J. WILLIAM LOWN and 2017 Molecular mechanism of binding of pyrrolo(1,4)-benzodiazepine antitumour agents to deoxyribonucleic acid—Anthramycin and tomaymycin
ALUMMOOTIL V. JOSHUA
- MICHAEL A. BLEYMAN and 2027 Comparison of acute and chronic ethanol administration on rates of ethanol elimination in the rat *in vivo*
RONALD G. THURMAN
- JAWAHARLAL M. PATEL, 2031 Interaction of 4-methylbenzaldehyde with rabbit pulmonary cytochrome P-450 in the intact animal, microsomes, and purified systems. Destructive and protective reactions
C. ROLAND WOLF and
RICHARD M. PHILPOT
- BORIS N. MANUKHIN and 2037 Reverse trans-synaptic regulation of neuronal noradrenaline uptake
EKATERINA V. VOLINA
- PETER J. COX 2045 Cyclophosphamide cystitis—Identification of acrolein as the causative agent
- ALBRECHT WENDEL, 2051 Acute paracetamol intoxication of starved mice leads to lipid peroxidation *in vivo*
SYLVIA FEUERSTEIN and
KARL-HEINZ KONZ
- TH. CRESTEIL, J. P. FLINOIS, 2057 Effect of microsomal preparations and induction on cytochrome P-450-dependent monooxygenases in fetal and neonatal rat liver
A. PFISTER and J. P. LEROUX
- Y. LAPERCHE, C. GRAILLLOT, 2065 Uptake of rifampicin by isolated rat liver cells. Interaction with sulfobromophthalcin uptake and evidence for separate carriers
J. ARONDEL and P. BERTHELOT
- JULIE CHAO and HARRY S. MARGOLIUS 2071 Isozymes of rat urinary kallikrein
- ELIAS K. MICHAELIS and 2081 Calcium binding to brain synaptosomes. Effects of chronic ethanol intake
SHARIE L. MYERS
- Short Communications**
- LOUIS A. BARKER, JACK P. GREEN 2089 Acetylcholine-like activity in sciatic nerve—A re-evaluation
and PETER I. A. SZILAGYI
- DIANNA A. REDBURN, 2091 Inhibition by reserpine of calcium-dependent release of [³H]norepinephrine from synaptosomes depolarized with potassium or veratridine
JAMES STRAMLER and
LINCOLN T. POTTER
- JUDITH K. MARQUIS, DANA C. HILT 2094 Solubilization of cholinergic binding fractions from lobster axon membrane fragments
and HENRY G. MAUTNER

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Preliminary Communications

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| V. A. TKACHUK and M. WOLLEMAN | 2097 | Hypersensitivity to isoproterenol in rabbit heart decreases guanine nucleotide effect on adenylate cyclase |
| DONALD R. MATTISON,
DONNA M. WEST and
RAYMOND H. MENARD | 2101 | Differences in benzo(a)pyrene metabolic profile in rat and mouse ovary |
| CLAUDIA M. CERMAK-MÖRTH,
RUDOLF CHRISTIAN and
FRANK M. UNGER | 2105 | Anti-herpes activity of the adenine arabinoside analog, 2'-azido-2'-deoxy- β -D-arabinofuranosyladenine |

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| KAREL P. M. HEIRWEGH and
FRANS COMPERNOLLE | 2109 | Micro-analytic detection and structure elucidation of ester-glycosides |
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| J. WILLIAM LOWN,
LARRY W. McLAUGHLIN and
JAMES A. PLAMBECK | 2115 | Mechanism of action of 2-haloethylnitrosoureas on deoxyribonucleic acid. Nature of the intermediates from nitrosourea decomposition |
| J. WILLIAM LOWN and
LARRY W. McLAUGHLIN | 2123 | Mechanism of action of 2-haloethylnitrosoureas on deoxyribonucleic acid. Nature of the chemical reactions with deoxyribonucleic acid |
| MARGARET C. BOADLE-BIBER | 2129 | Activation of tryptophan hydroxylase from slices of rat brain stem incubated with agents which promote calcium uptake or intraneuronal release |
| CHRISTIAN N. GLUUD,
IDA COHRT TØNNESEN and JOHN DICH | 2139 | Effect of xanthines and some derivatives on protein metabolism in isolated parenchymal rat liver cells |
| STEPHEN A. SMITH,
KEITH R. F. ELLIOTT and
CHRISTOPHER I. POGSON | 2145 | Inhibition of hepatic gluconeogenesis by tryptophan metabolites in rats and guinea pigs |
| WERNER LENK | 2149 | Mixed function oxygenation of the lower fatty acyl residues—I. Hydroxylation of the acetic, propionic, butyric and valeric residues by rabbit liver micro-somes |
| PIERRE M. LADURON and
JOSÉE E. LEYSEN | 2161 | Domperidone, a specific <i>in vitro</i> dopamine antagonist, devoid of <i>in vivo</i> central dopaminergic activity |
| G. SAGER and S. JACOBSEN | 2167 | Plasma dependent adrenergic ligand binding to human erythrocytes |
| SALEHA HASANI and BRIAN BURCHELL | 2175 | Regulation of rat liver epoxide hydratase activity by phenobarbital and 3-methylcholanthrene |
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