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DESCRIPTION

Biochemical Pharmacology publishes original research findings, Commentaries and review articles related to the elucidation of cellular and tissue function(s) at the biochemical and molecular levels, the modification of cellular phenotype(s) by genetic, transcriptional/translational or drug/compound-induced modifications, as well as the pharmacodynamics and pharmacokinetics of xenobiotics and drugs, the latter including both small molecules and biologics.

The journal's target audience includes scientists engaged in the identification and study of the mechanisms of action of xenobiotics, biologics and drugs and in the drug discovery and development process.

All areas of cellular biology and cellular, tissue/organ and whole animal pharmacology fall within the scope of the journal. Drug classes covered include anti-infectives, anti-inflammatory agents, chemotherapeutics, cardiovascular, endocrinological, immunological, metabolic, neurological and psychiatric drugs, as well as research on drug metabolism and kinetics. While medicinal chemistry is a topic of complimentary interest, manuscripts in this area must contain sufficient biological data to characterize pharmacologically the compounds reported. Submissions describing work focused predominately on chemical synthesis and molecular modeling will not be considered for review.

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Q. Xu, Nanjing University, Nanjing, China

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B. Bettler, Universität Basel, Basel, Switzerland
D. Boatman, BioMarin Pharmaceutical Inc., Novato, California, USA
R.A.J. Challiss, University of Leicester, Leicester, UK
E.C.Y. Chan, National University of Singapore, Singapore, Singapore
S.H.H. Chan, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan
C. Forray, Lundbeck Research USA, Paramus, New Jersey, USA
M.F. Jarvis, AbbVie, North Chicago, Illinois, USA

J. R. D. Lane, The University of Nottingham, Nottingham, England, UK
M.J. Marino, Merck & Co Inc., West Point, Pennsylvania, USA
P. McGonigle, Drexel University College of Medicine, Philadelphia, Pennsylvania, USA
P.J. McLaughlin, Penn State University College of Medicine, Hershey, Pennsylvania, USA
M. Montgomery, University of Melbourne, Melbourne, Victoria, Australia
G. Perry, University of Texas at San Antonio, San Antonio, Texas, USA
R.D. Spealman, Harvard Medical School, Belmont, Massachusetts, USA
A.D. Wickenden, Janssen Research & Development, San Diego, California, USA
J.M. Witkin, Witkin Consulting, Carmel, Indiana, USA

Pharmacokinetics and Drug Metabolism

E.C.Y. Chan, National University of Singapore, Singapore, Singapore
B. Hagenbuch, University of Kansas Medical Center, Kansas City, Kansas, USA
J.R. Idle, Long Island University, Brooklyn, New York, USA
K.-I. Inui, Kyoto Pharmaceutical University, Kyoto, Japan
Y. Kanai, Osaka University, Osaka, Japan
J. R. D. Lane, The University of Nottingham, Nottingham, England, UK
M. Montgomery, University of Melbourne, Melbourne, Victoria, Australia
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Toxicology

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INTRODUCTION

Biochemical Pharmacology is an international peer reviewed journal devoted to publishing original research and invited reviews and commentaries on the interaction of chemical compounds with biological systems. Manuscripts describing experiments conducted with chemical mixtures, plant or animal extracts will not be considered for publication unless the chemical structures and precise concentrations of all substances are reported.

While particular emphasis is placed on reporting findings that relate to pharmacodynamics, pharmacokinetics, and metabolism of both small molecules and biologics at the biochemical and molecular levels, submissions in the areas of behavioral and physiological pharmacology and toxicology are considered if they describe studies directed at defining mechanisms of action. All areas related to the field of pharmacology are represented in the journal including, but not limited to, chemotherapy, neuropharmacology, inflammation/immunopharmacology, antimicrobials, behavioral, respiratory, gastrointestinal, cardiovascular and endocrine pharmacology and toxicology.

Reports describing *de novo* results of clinical studies and those that predominately or exclusively concern database mining and analysis and computational methodologies, e.g. CAMD, are outside the scope of the journal.

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(1) Full-length Research Papers. *Biochemical Pharmacology* publishes original research on issues of relevance to the field of pharmacology.

(2) Reviews and Commentaries. These articles are by invitation only and provide the authors' views on a selected topic of interest to pharmacologists.

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Provided below is detailed information on the scientific criteria and manuscript formatting required for an article to be considered for publication in *Biochemical Pharmacology*. The online submission process includes the Scientific Submission Checklist (Table 1) on the Additional Information Screen at <https://ees.elsevier.com/bcp>. Failure to accurately complete the Scientific Submission Checklist questions, automatically disqualifies the work for consideration. See Mullane et al., *Guidelines for Manuscript Submission in the Peer-Reviewed Pharmacological Literature (Biochem. Pharmacol. 97:225-235, 2015; <http://www.sciencedirect.com/science/article/pii/S0006295215003585>)* for a detailed discussion of the issues addressed in the Scientific Submission Checklist.

Table 1. Scientific Submission Checklist

Please answer the following questions with "Yes", "No", or "Not applicable".

Formatting Only video or audio files may be uploaded as supplementary data. The submission will automatically be rejected if the first question is marked "no" (i.e. supplementary tables or figures are not permitted).

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2. Are all tables and figures numbered and appropriately titled with descriptive legends that permit stand-alone interpretation? Are all data shown in the tables and figures also described in the Results section, discussed in the Discussion section and stated in the Conclusions?

Introduction Section

3. Is there a clear statement with background describing the hypothesis being tested by this study? Are the primary endpoints clearly stated?

Materials and Methods Section

4. Were human tissues or fluids used in this study? Were the experiments reviewed and approved by the Institutional review Board (IRB)?

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12. Were the criteria used for excluding any data from analysis determined prospectively and clearly stated?
13. Was the investigator responsible for data analysis blinded to which samples/animals represent control and treatment groups?
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15. If western blots are shown, are the appropriate loading controls, replication data, and quantification and statistical analysis shown?
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Manuscript preparation

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