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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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R.J. Winquist, Xenon Pharmaceuticals Inc, Burnaby, British Columbia, Canada

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D. Ford, Northumbria University Faculty of Health and Life Sciences, Newcastle Upon Tyne, United Kingdom

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R. Gaspar, University of Szeged, Szeged, Hungary
A. Kowluru, Wayne State University, Detroit, Michigan, United States
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M. Montgomery, University of Melbourne, Department of Physiology, Melbourne, Victoria, Australia
M.E. Poirot, Paul Sabatier University, Toulouse, France
A. Romani, CASE WESTERN RESERVE UNIVERSITY, Cleveland, Ohio, United States

Inflammation and Immunopharmacology

M.J. Alcaraz, University of Valencia, Valencia, Spain
A. Arif, EMORY UNIVERSITY, Atlanta, Georgia, United States
B. Beyaert, Ghent University, Ghent, Belgium
S.G. Bourgoin, Quebec Research and Development Centre, Québec, Canada
M. Carty, University of Dublin Trinity College, Dublin, Ireland
F. D'Acquisto, University of Roehampton, London, United Kingdom
S.L. Doyle, University of Dublin Trinity College, Dublin, Ireland
J.P. Hardwick, Northeastern Ohio University College of Medicine, Department of Integrative Medical Sciences, Rootstown, Ohio, United States
L. Herrero, University of Barcelona, Barcelona, Spain
J.D. Imig, Medical College of Wisconsin, Milwaukee, Wisconsin, United States
A. Kauppinen, University of Eastern Finland School of Pharmacy, KUOPIO, Finland
Y. Kim, Chungbuk National University, Cheongju, Korea, Republic of
J.-H. Lai, Chang Gung Memorial Hospital, Div. of Allergy, Immunology and Rheumatology, Taoyuan City, Taiwan
J. R. D. Lane, University of Nottingham, Nottingham, United Kingdom
E. Lavelle, University of Dublin Trinity College, Dublin, Ireland
D. MacEwan, University of Liverpool, Liverpool, United Kingdom
C. Martini, University of Pisa, Pisa, Italy
K. McCoy, Virginia Commonwealth University, Richmond, Virginia, United States
J.J. Moreno, University of Barcelona, Barcelona, Spain
M. Mousli, University of Strasbourg, Strasbourg, France
G.E. Rovati, University of Milan, Milan, Italy
O. Stendahl, Linköping University, Linköping, Sweden
K. Suk, Kyungpook National University, Daegu, Korea, Republic of
D.R. Webb, Scripps Research Institute, La Jolla, California, United States
O. Werz, Jena University Hospital, Jena, Germany
Q. Xu, Nanjing University, Nanjing, China

Neuropharmacology

D.C. Bertrand, HiQScreen Sàrl, Geneva, Switzerland
B. Bettler, University of Basel, Basel, Switzerland
D. Boatman, BioMarin Pharmaceutical Inc, Novato, California, United States
R.A.J. Challiss, University of Leicester, Leicester, United Kingdom
S.H.H. Chan, Kaohsiung Medical University Chung Ho Memorial Hospital, Kaohsiung, Taiwan
C. Forray, Lundbeck Research USA Inc, Paramus, New Jersey, United States
M.F. Jarvis, AbbVie Inc, North Chicago, Illinois, United States
M.J. Marino, Merck & Co Inc., Psychiatry Exploratory Pharmacology, West Point, Pennsylvania, United States
P. McGonigle, Drexel University College of Medicine, Philadelphia, Pennsylvania, United States
P.J. McLaughlin, Penn State College of Medicine, Hershey, Pennsylvania, United States
G. Perry, University of Texas at San Antonio Department of Biology, San Antonio, Texas, United States

R.D. Spealman, MCLEAN HOSPITAL, Belmont, Massachusetts, United States

A.D. Wickenden, Janssen Research and Development La Jolla, San Diego, California, United States

J.M. Witkin, Witkin Consulting, Carmel, Indiana, United States

Pharmacokinetics and Drug Metabolism

E.C.Y. Chan, National University of Singapore, Singapore, Singapore

B. Hagenbuch, UNIVERSITY OF KANSAS MED CTR, Kansas City, Kansas, United States

J.R. Idle, Long Island University, Brooklyn, New York, United States

K.-I. Inui, Kyoto Pharmaceutical University, Kyoto, Japan

Y. Kanai, Osaka University, Osaka, Japan

H. Yamazaki, Showa Pharmaceutical University, Lab. Drug Metabolism and Pharmacokinetics, Tokyo, Japan

Toxicology

J. Arellanes-Robledo, Instituto Nacional de Medicina Genómica, Consortium of Biochemistry and Protein Structures, Mexico City, Mexico

K.W. Bock, Eberhard Karls University Tübingen, Tübingen, Germany

C.C. Bridges, Mercer University School of Medicine, Macon, Georgia, United States

P. Burcham, University of Western Australia, School of Biomedical Science, Nedlands, Western Australia, Australia

B.J. Day, National Jewish Health, Denver, Colorado, United States

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B. Ning, National Center for Toxicological Research, Jefferson, Arkansas, United States

GUIDE FOR AUTHORS

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.

Types of papers

(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.

Manuscript preparation and submission

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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11. Are all group sizes approximately the same and clearly indicated in the text and/or in the tables and figures?
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?
14. Are the reported data displayed as means +/- standard deviation (SD)? Is the number of replicates of three or more independent experimental observations clearly indicated? Were post-hoc tests used to assess the statistical significance among means? Is the threshold for statistical significance (P value) clearly indicated?

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15. If western blots are shown, are the appropriate loading controls, replication data, and quantification and statistical analysis shown?
16. If PCR and RT-PCR are included, were MIQE guidelines followed? Was a reference standard (positive or negative controls) included in the study to validate the experiment?

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17. Are the primary conclusions and any secondary endpoints and their implications clearly stated?
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- Toxicology

PREPARATION

Manuscript preparation

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