BIOCHEMICAL PHARMACOLOGY

AUTHOR INFORMATION PACK

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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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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.

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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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Scientific Checklist

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3. Are all data shown in the figures and tables also shown in the text of the Results section and discussed in the Conclusions?
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5. Is there a clear statement with background describing the hypothesis being tested by this study?
6. Are the primary endpoints clearly described?

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10. Were cell lines authenticated by you or the vendor?
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12. If used, has the species, strain, sex, weight and source of the animals been provided?
13. Is a statement included in the text indicating compliance with regulations on the ethical treatment of animals including the identification of the institutional committee that approved the experiments?
14. Is the rationale provided for the selection of concentrations, doses, route and frequency of compound administration?
15. Are quantified results (e.g., IC50 and/or EC50 values) of concentration- and dose-response experiments included in the manuscript?
16. If used, is the method of anesthesia described?
17. Are all group sizes approximately the same?
18. Were the criteria used for excluding any data from analysis determined prospectively and clearly stated?
19. Was the investigator responsible for data analysis blinded to which samples/animals represent control and treatment groups?
20. Is the exact sample size (*n*) for each experimental group/condition clearly indicated in the text and/or in the tables and figures?
21. Are the reported data displayed as the mean +/- standard deviation (SD) of three or more independent experimental replications?
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23. Were the statistical tests used to analyze the primary endpoints predetermined as part of the experimental design?
24. Is the threshold for statistical significance (P value) clearly indicated?
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26. Were *post-hoc* tests used to assess the statistical significance among means?
27. Were human tissues or fluids used in this study?

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31. Are all the findings considered within the context of the hypothesis presented in the Introduction
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•Pulmonary, Renal and Hepatic Pharmacology
•Toxicology

PREPARATION

Manuscript preparation

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