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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.

While particular emphasis is placed on reporting the results of molecular and biochemical studies, research involving the use of tissue and animal models of human pathophysiology and toxicology is of interest to the extent that it helps define drug mechanisms of action, safety and efficacy.

Reports describing experiments conducted with natural product mixtures, plant or animal extracts will not be considered for publication unless the structures and concentrations of all component substances are known, and the agents can be easily obtained by others wishing to replicate the study.

The chemical structure of all novel compounds tested must be included in the submitted manuscript or be readily accessible in the published literature. References to structures in the patent literature must unambiguously identify a single molecular structure. All compounds, reagents, instrumentation and equipment employed in a study must be available from identified commercial suppliers, bio/pharmaceutical companies or from individuals holding legal rights to their use. Submissions will not be considered for publication if the chemical structures of tested compounds are not revealed, generally known, or accessible in the literature.

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Pharmacologists, Biochemists, Toxicologists, Neuroscientists, Molecular and Cellular Biologists.

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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.

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 Checklist (Table 1). Failure to complete the Checklist, or a lack of a response to any items on the Scientific Checklist, automatically disqualifies the work for consideration. Note especially items 1 - 4 as a negative response to any of these automatically disqualifies the report 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 Checklist.

Scientific Checklist

Table 1. Scientific Submission Checklist

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

Formatting - The submission will automatically be rejected if these first four questions are not marked "yes"

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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

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

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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?
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?

Results

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?

Discussion

17. Are the primary conclusions and any secondary endpoints and their implications clearly stated?
18. Are the limitations of the current study or alternative interpretations of the findings clearly stated?

Conflict of Interest/Financial Support

19. Is a conflict of interest statement included in the manuscript?
20. Are all organizations providing funding for this work listed in Acknowledgements?

Please list any additional explanation(s) you feel may be necessary on the above questions:

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- Neuropharmacology
- Pharmacokinetics and Drug Metabolism
- Pulmonary, Renal and Hepatic Pharmacology
- Toxicology

PREPARATION

Manuscript preparation

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1.1.2,), 1.2, etc. The abstract is not included in section numbering. This numbering should be used for internal cross-referencing in the text. Subsections may be assigned a brief heading that appears alone on a separate line.

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Acknowledgments

Acknowledgments must be listed in a separate section at the end of the article before the references. The Acknowledgments should include the names of individuals, organizations and funding agencies that provided assistance in underwriting and reporting the work.

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Illustrations must have a caption that is listed separately from the figure in the submitted version of the work. The caption should be self-explanatory without the need to reference the accompanying text. All symbols appearing on the illustration must be clearly defined in the figure legend.

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