DESCRIPTION

Biochemical Pharmacology publishes original research findings 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.

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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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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) Review Articles. Biochemical Pharmacology publishes reviews on topics of interest to pharmacologists. While these articles should be as concise as possible, they must include information and interpretations representing different points of view. Reviews can vary in length from 4,000 to 25,000 words, not including references. Inclusion of tables and diagrams as figures is encouraged. Besides being balanced and accurate in the presentation of data, reviews must be authoritative, state-of-the-art accounts of subjects of topical interest to investigators in the field. Articles that simply summarize published reports without proposing new interpretations, experimental approaches or therapeutic implications will not be considered for publication. As with regular research reports, review articles undergo rigorous peer review to determine their suitability for publication in Biochemical Pharmacology.

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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://www.editorialmanager.com/bp/default.aspx. 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; https://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".

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Introduction Section

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13. Were the criteria used for excluding any data from analysis determined prospectively and clearly stated?
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15. 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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16. If western blots are shown, are the appropriate loading controls, replication data, and quantification and statistical analysis shown?
17. 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 Section**
18. Are the primary conclusions and any secondary endpoints and their implications clearly stated?
19. Are the limitations of the current study or alternative interpretations of the findings clearly stated?

**Conflict of Interest/Financial Support**
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**Manuscript preparation**

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