# Journal of Pharmacological and Toxicological Methods

**Description**

*Journal of Pharmacological and Toxicological Methods* publishes original articles on current methods of investigation used in **pharmacology** and **toxicology**. Pharmacology and toxicology are defined in the broadest sense, referring to actions of drugs and chemicals on all living systems. With its international editorial board and noted contributors, *Journal of Pharmacological and Toxicological Methods* is the leading journal devoted exclusively to experimental procedures used by **pharmacologists** and **toxicologists**.

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**Audience**

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**Impact Factor**

2018: 2.679 © Clarivate Analytics Journal Citation Reports 2019

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INTRODUCTION

*Journal of Pharmacological and Toxicological Methods* publishes articles on methods used in pharmacology, safety pharmacology and toxicology. *Journal of Pharmacological and Toxicological Methods* is the leading international journal devoted exclusively to the elaboration and validation of experimental methods.

Please visit our Pharmacology Author Resources page for guidance on manuscript preparation.

**Types of paper**

The *Journal of Pharmacological and Toxicological Methods* publishes papers in a range of categories:

"Research paper": description and characterization of a new or modified disease model, method, technique, apparatus or approach to analysis of data. This may include interspecies comparisons that contrast drug actions from a model relevance perspective; "Short communication" detailing simple modifications of an existing model, method, technique, apparatus or approach to analysis of data; "How To" articles that provide step-by-step guidance on the execution of a specific technique; "Appraisal of state-of-the-art" or "Historical review" of particular models, methods, techniques or apparatus; "Methods in drug discovery" - perhaps the most important category. Here, by showing how a method was used to select a drug that was eventually found to be clinically effective, the author establishes validation of the method.

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Note that papers focused on the actions of drugs are beyond the scope of the journal.

Specific instructions for regular articles & short communications:

Introduction

This must outline the reason for the study and justify the approach taken.

Methods
This section should be sufficiently detailed to permit the reader to replicate the study. It should be a full recipe, with step by step instructions. We prefer the bulk of the descriptions in prose, but tables summarising sequences of procedures are a good accompaniment to the text. Subcomponents of the method that have been described in detail in the literature should be described in full, but appropriate citation of the original source method is mandatory.

Results

This section should be concise and must not contain repetition of the methods. Data in the text must not replicate data in tables or figures. SI units must be used.

Discussion

The potential value of the data to pharmacological or toxicological or safety pharmacology research methods must be clearly explained, with appropriate reference to existing methods and their limitations. This section must not contain paragraphs dealing with topics that are beyond the scope of the study. Use subheadings for clarity.

Specific instructions for "How To" articles:

"How To" articles provide step-by-step guidance on the execution of specific techniques.

Introduction

For "How To" articles, this section will be very brief, and will simply identify the therapeutic area, the goal of the method, and give mention to published alternatives descriptions if available. It is unlikely that many papers will be cited in this section.

Methods

This section should be sufficiently detailed to permit the reader to replicate the study. It should be a full recipe, with step by step instructions. We prefer the bulk of the descriptions in prose, but tables summarising sequences of procedures are a good accompaniment to the text. Subcomponents of the method that have been described in detail in the literature should be described in full, but appropriate citation of the original source method is mandatory.

Results

This section should be concise and must not contain repetition of the methods. Data in the text must not replicate data in tables or figures. SI units must be used.

Discussion

The potential value of the data to pharmacological or toxicological research methods must be clearly explained, with appropriate reference to existing methods and their limitations. This section must not contain paragraphs dealing with topics that are beyond the scope of the study.

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Appraisal articles are reviews about the current best models. The article should identify and describe the current best model, and discuss the evidence (or lack of) to support this. A good model should demonstrably detect drugs that work (or cause adverse effects) in humans, and demonstrably have
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Text to be divided into sections according to author choice.

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Historical reviews can be more personal and less formal. Senior figures in a field may have decades
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methods, techniques and apparatus gave rise to a drug that works in man is the closest we can get
to a methods validation - a much neglected area. The reader would also benefit by having revealed
the logic behind the decision-making that allowed the successful drug to proceed in development,
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making based on proof, or on the exercise of judgment, or a mixture of both will be of value to the
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pharmacological and toxicological methods.

Text to be divided into the following sections

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