



# JOURNAL OF PHARMACOLOGICAL AND TOXICOLOGICAL METHODS

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### DESCRIPTION

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*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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Pharmacologists, Toxicologists, Biochemists.

### IMPACT FACTOR

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### ABSTRACTING AND INDEXING

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## GUIDE FOR AUTHORS

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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.

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#### *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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#### *Additional information*

Manuscripts will be evaluated by a member of the board of editors of the Journal, and a panel of international reviewers. An editorial decision will normally be made within 4 weeks of receipt of the manuscript, and publication will normally take place within 3 months of final acceptance.

### **PREPARATION**

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.

#### 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.

### **Specific instructions for "Appraisal of State of the Art"-articles:**

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 few false positives or negatives. This evidence should be presented. The review should contrast the current best model with other available but inferior models, thereby illustrating why one is the state-of-the-art model.

Text to be divided into sections according to author choice.

### **Specific instructions for "Historical review" articles:**

Historical reviews can be more personal and less formal. Senior figures in a field may have decades of experience with models, methods, techniques of apparatus. It is of immense value and interest to the research community to learn the history of the development of a model, understand why one model was abandoned and another developed, and get insight into the thinking behind a model, and the impact of good and bad models in drug development in a particular field. In addition, in many fields many models are still used that are transparently inadequate - it would be of great value to obtain a candid expose from an experienced practitioner as to why this might be, including insight into personal perspective as it changed over the years.

Text to be divided into sections according to author choice

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Brief overview of evidence that drug X is now established as being clinically effective  
Original hypothesis that triggered the search for a drug of type X  
Preclinical models used in defining drug X's properties (subsections in sequence, explaining logic behind choice)  
Outcome of tests (subsections in sequence, explaining logic behind successive decision making)  
Conclusions

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### Abstract

This must not exceed 250 words and should be subdivided into four subsections headed: Introduction, Methods, Results, Discussion.

### Keywords

Immediately after the abstract, provide a maximum of 10 keywords (one of which should be "methods") in alphabetical order, using British spelling and avoiding general and plural terms and multiple concepts (avoid, for example, " and" , " of" ). These keywords will be used for indexing purposes.

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Be sparing with abbreviations: only abbreviations firmly established in the field may be eligible.

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### Examples:

Reference to a journal publication:

Van der Geer, J., Hanraads, J. A. J., & Lupton, R. A. (2010). The art of writing a scientific article. *Journal of Scientific Communications*, 163, 51–59.

Reference to a book:

Strunk, W., Jr., & White, E. B. (2000). *The elements of style*. (4th ed.). New York: Longman, (Chapter 4).

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Mettam, G. R., & Adams, L. B. (2009). How to prepare an electronic version of your article. In B. S. Jones, & R. Z. Smith (Eds.), *Introduction to the electronic age* (pp. 281–304). New York: E-Publishing Inc.

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Cancer Research UK. Cancer statistics reports for the UK. (2003). <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/> Accessed 13.03.03.

Reference to a dataset:

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