

Instructions for Authors

1. Aims and Scope

Archives of Pharmacal Research (APR) is an official journal of the Pharmaceutical Society of Korea (PSK) and an interdisciplinary journal devoted to the publication of original research papers and reviews in the fields of drug discovery, drug development, and drug actions with a view to providing fundamental and innovative insights into drugs and drug candidates.

In the case of research on natural products, the articles reporting the pharmacological effects of the active ingredients in the extracts will be considered for publication. However, studies evaluating the pharmacological actions of only the extracts will not be considered.

2. Types of Papers

This journal considers manuscripts for publication in the following types of papers:

Original Research Articles.

Review Articles.

At least three figures or tables (in total) must be included.

3. Manuscript Submission

All submissions should be made online at the *Archives of Pharmacal Research* Editorial Manager site (www.editorialmanager.com/arpr) by a corresponding author.

Manuscripts, even partially written by AI, will not be published.

1) English Language Editing: Authors whose first language is not English are required to use a professional language-editing service to improve the manuscript before submission.

2) Submission and Handling Fee: For all manuscripts accepted for publication, the submission and handling fee of US \$2,000 will be charged to the corresponding author before the acceptance letter is issued.

4. Authorship

The designation of the corresponding author and the first author should be based on a transparent and rigorous evaluation of their substantive intellectual contributions. While multiple designations of either role are generally discouraged, they may be considered in exceptional and well-justified circumstances. In such cases, the journal may request documentation clarifying the distinct contributions of each individual, in line with international standards of publication ethics (e.g., ICMJE, COPE). Authors are therefore encouraged to use shared authorship designations judiciously and to ensure that such claims are appropriately supported.

5. Manuscript Format

The text of the manuscript must be submitted as a Word file.

Manuscripts should be in English, typewritten using Times New Roman font (12-point size) only, and double-spaced throughout on A4-sized paper with at least 2.5 cm margin.

Original articles should contain the following sections in the specified order.

Each section should begin on a new page, and all pages should be numbered consecutively.

1) Cover Letter

All submissions must include a cover letter containing:

- ♦ A brief outline of the work's novelty and significance
- ♦ A statement that the work has not been previously published and is not under consideration for publication anywhere else
- ♦ A statement that the contents and publication of the manuscript have been approved by all co-authors and the responsible authorities at the institute(s) where the work has been carried out

2) Title Page

This should be written on a separate page, and it should include:

- ♦ A concise and informative title
- ♦ The names of all authors, their affiliations with symbols linking each name to their institutional affiliation, and an asterisk to denote the corresponding author
- ♦ The affiliations and addresses of the authors
- ♦ The e-mail addresses and the ORCID number(s) of the corresponding author(s)
- ♦ A running title of no more than 50 characters, including spaces

3) Abstract

- ♦ The abstract must be a single paragraph without any subsection titles. The abstract should concisely present the hypothesis being tested, general methods, results, and conclusions.
- ♦ Four to six keywords must be provided after the abstract.

4) Introduction

It should provide a concise and up-to-date background that gives general readers sufficient context to understand the research and its significance. It should also clearly state the research question and any hypotheses being explored.

The results should not be included in this section.

5) Materials and Methods

- ♦ Procedures should be described in sufficient detail to allow replication by other researchers. Published procedures should be briefly summarized with references and described in detail only if they have been modified.
- ♦ The name of the manufacturer should be specified, including the city, state (for the USA), and country.
- ♦ All human and animal studies must be approved by the author's institutional review board, and the name of the review board must be provided.

6) Results

In this section, observations should be described without any discussion of their significance. Results are typically presented in figures or tables, and the same information should not be repeated in the text.

7) Discussion

- ♦ The Discussion should be provided separately from the Results. A combined "Results and Discussion" section is not allowed.
- ♦ Speculative discussion is allowed but must be clearly identified as such and supported by the data presented.
- ♦ Conclusions must be included in the Discussion section.

8) Conflict of Interest

- ♦ All authors must disclose any actual or potential conflicts of interest, including financial, personal, or other relationships with individuals or organizations within the past three years that could be perceived to influence their work.
- ♦ Potential sources of conflict of interest include employment, consultancies, honoraria, stock ownership, stock options, expert testimony, grants (received or pending), patents (granted or pending), royalties, and in-kind contributions.
- ♦ Manuscripts without a conflict of interest statement will be returned to authors for revision before editorial review.
- ♦ Research funding must be listed in the Acknowledgments section and must include the funder and grant number.

9) Acknowledgments

The Acknowledgment section should include credits [last name and initial(s)] for technical assistance, financial support, and other appropriate recognition.

10) Data Availability

Authors must provide a statement on data availability. Refer to the following examples.

- ♦ The datasets generated and/or analysed during the current study are available in the [NAME]

repository, [PERSISTENT WEB LINK TO DATASETS]

- The datasets used and/or analysed during the current study are available from the corresponding author on reasonable request.
- All data generated or analysed during this study are included in this published article [and its supplementary information files].
- The datasets generated and/or analysed during the current study are not publicly available due to [REASON WHY DATA ARE NOT PUBLIC], but are available from the corresponding author on reasonable request.
- The data that support the findings of this study are available from [third party name], but restrictions apply to the availability of these data, which were used under license for the current study, and therefore are not publicly available. Data are, however, available from the authors upon reasonable request and with permission of [third party name].

11) References

① Citation

Cite references in the text by name and year in parentheses, arranging multiple citations chronologically. The following are examples.

- ♦ Single author: (Thompson 2024, Lee 2025).
- ♦ Two authors: (Becker and Seligman 2023).
- ♦ Three or more authors: (Kim et al 2024a, 2024b).
- ♦ Sort by year: (Abbott et al. 2023a, 2023b, Barakat et al. 2024, Kim and Lee 2025)

② Reference list

The reference list should include works cited in the text that have been published or accepted for publication only. Personal communications and unpublished works should be mentioned only in the text. Do not use footnotes or endnotes as a substitute for a reference list.

Reference list entries should be alphabetized by the last names of the first author, and the names of all authors should be provided.

• Journal article

Li CX, Liu Y, Zhang YZ, Li JC, Lai J (2022) Astragalus polysaccharide: a review of its immunomodulatory effect. *Arch Pharm Res* 45(6):367-389. doi: 10.1007/s12272-022-01393-3.

• Book

South J, Blass B (2001) *The future of modern genomics*. Blackwell, London

• Book chapter

Brown B, Aaron M (2001) The politics of nature. In: Smith J (ed) *The rise of modern genomics*, 3rd edn. Wiley, New York, pp 230–257

• Online document

Cartwright J (2007) Big stars have weather too. IOP Publishing PhysicsWeb. <http://physicsweb.org/articles/news/11/6/16/1>. Accessed 26 June 2007

• Dissertation

Trent JW (1975) *Experimental acute renal failure*. Dissertation, University of California
Always use the standard abbreviation of a journal's name according to the Web of Science. Refer to https://images.webofknowledge.com/images/help/WOS/A_abrvjt.html. If unsure, use the full journal title.

12) Tables

Each table must be double-spaced and placed on a separate page. Tables should be numbered consecutively with Arabic numerals in the order cited in the text. Each table must include a brief title, with explanatory matter provided in the footnotes (not in the heading). Do not use internal horizontal and vertical lines. Each table must include a brief title, with explanatory matter provided in the footnotes (not in the heading).

Tables should be editable and not embedded as images or Excel files.

13) Figure Legends

Legends must provide sufficient explanation for the reader to understand the figure without

referring to the text.

14) Figures

Figures should be numbered consecutively based on their first mention in the text, with each figure placed on a separate page.

① **Graphics:** Figures may be submitted in various file formats, including TIFF, EPS, JPEG, GIF, high-resolution PDF, and PowerPoint. High-resolution images must be submitted to ensure the highest print quality. Electronic images must be prepared according to the following minimum resolutions: Black and white line art, 1200 dpi; grayscale art, 600 dpi; color art, 300 dpi.

② **Colors:** All figures will be published in color for the online version and in black and white for the printed version. Color photographs will be printed at the Editor's discretion, with the understanding that the authors will bear the cost.

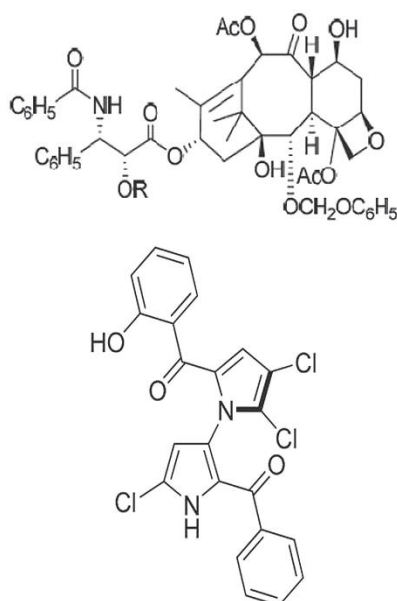
③ **Layout:** Figures should be submitted in the actual size at which they are intended to appear in the Journal. They may be printed in either single column (80 mm width) or double column (165 mm width) format. The single-column format is preferred. The size of text in figures should be 8-10 points, except for single letter markers, which may be 12 points. The use of sans-serif fonts, such as Helvetica, is preferred. Numbers, letters, and symbols in multi-paneled figures must be consistent throughout. Complex textures and shading to achieve a three-dimensional effect should be avoided. To show a pattern, a simple cross-hatch design should be used. Lines should be at least 0.5 points thick. For a line graph, use standard symbols in the following order of preference: ○, ●, □, ■, D, ▲; x and + should be avoided.

④ **Contents:** Abbreviations such as Me for CH₃, Et for C₂H₅, and Ph (but not j) for C₆H₅ are acceptable. Make liberal use of "R and X groups" in equations, schemes, and structure blocks to avoid the repetition of similar structures. Do not repeat a structure; instead, refer to it by its assigned number if it appears multiple times. Schemes are numbered with Arabic numerals. Within schemes, structures should be numbered with boldface Arabic numerals, consecutively from left to right, top to bottom, regardless of the order in which the compounds are discussed in the text. Schemes should be footnoted in the manner described below for Tables. It is not necessary to give reagents and conditions in complete detail, since this detail is contained in the Materials and Methods Section. Where needed, numbers such as NMR chemical shifts may be included directly on structural formulas.

15) Chemical Structures. Drawing preferences (preset in the ACS Stylesheet in ChemDraw) are as follows:

- ① As drawing settings select:
 - chain angle: 120°
 - bond spacing: 18% of width
 - fixed length: 14.4 pt (0.508 cm, 0.2 in.)
 - bold width: 2.0 pt (0.071 cm, 0.0278 in.)
 - line width: 0.6 pt (0.021 cm, 0.0084 in.)
 - margin width: 1.6 pt (0.056 cm, 0.0222 in.)
 - hash spacing: 2.5 pt (0.088 cm, 0.0347 in.)
- ② As text settings select:
 - Font: Arial/Helvetica
 - Size: 10 pt
- ③ Under the preferences, choose:
 - Units: points
 - Tolerances: 5 pixels
- ④ Under page setup, choose:
 - Paper: A₄
 - scale 100%

- ⑤ Using the ChemDraw ruler or appropriate margin settings, create structure blocks, schemes, and equations having maximum widths of 11.3 cm (one-column format) or 23.6 cm (two-column format). Note: If the preferences above are set in cm values, the ChemDraw ruler will be calibrated in cm. ChemDraw graphics will be reduced to 75% of their original size during production.
- ⑥ Compound numbers should be bold, but atom labels and captions should not.
- ⑦ Authors should use only one configurational descriptor (either a heavy line or dashed line, but not both) to define a stereocenter in a chemical structure. Atoms should be placed outside rings whenever possible. Instead of rectangular solids and dashed lines, authors should use solid and dashed wedges to indicate configurations, as shown below. Dots at ring junctions to represent hydrogen atoms should be avoided. Structures should be neatly drawn, ready for direct reproduction, and should not be cluttered or overlap. Arrows and atom numbering in figures must not touch bonds or ring systems.



Refer to the example of a prepared structure using ChemDraw with the specified preferences below. For molecules with a chiral biphenyl axis, one aromatic ring should be drawn in the plane of the paper, and the second rotated out of the plane to reflect the P or M conformation of the biphenyl bond (refer to the example above).

6. Review of Manuscripts

All manuscripts are initially evaluated by the editors for their scientific content and significance and are reviewed by at least two independent reviewers. However, editors reserve the right to reject a manuscript without conducting an in-depth review if they determine that it is outside the scope of the journal or does not meet the minimal acceptance criteria for publication. Manuscripts with an incorrect format may be declined without further review.

7. Proofs

Authors are responsible for ensuring the factual accuracy of their papers. A single set of proofs will be provided for authors to check for typesetting accuracy and must be returned to the publisher within three days of receipt. No changes to the original manuscript are permitted at this stage. Additionally, the editors reserve the right to make any necessary corrections to a paper before publication.

8. Transfer of Copyright

All authors must sign the 'Transfer of Copyright' agreement before the article is eligible for publication. This transfer agreement enables the Pharmaceutical Society of Korea to protect the copyrighted material for the authors, but does not relinquish their proprietary rights.