

ResearchHub: Author Guidelines

Please use these guidelines to prepare your manuscript for submission to ResearchHub. Remove any italicized instructions before submission.

FORMATTING GUIDELINES

Language and Text:

All articles must be written in good English. Symbols, abbreviations, and acronyms should be defined at first use.

Manuscript length:

There are no strict word limits, but we encourage concise and clear writing.

Font and spacing:

Use a Times New Roman (12 pt) and double-space the text.

Margins:

Set margins to 1 inch (2.5 cm) on all sides.

Page numbers:

Include page numbers in the footer of each page.

Line numbers:

Include line numbers in the left margin of each page.

Figures and tables

Include figures and tables embedded within the text where they are first cited. Figures and tables should be submitted in the size they are likely to appear in the journal. Figures should be provided in high resolution format such as EPS files (vector files) or if unavailable, an uncompressed TIFF file (300-600 dpi). Please additionally specify whether the color mode used was RGB or grayscale.

Figure legends

Provide detailed captions beneath each figure.

Example:

Figure 1. Title of the figure. Description of what the figure shows. Make sure to include a detailed description for each panel including the number of replicates and statistical analysis.

Table titles

Provide titles and, if necessary, explanatory notes above each table.

Example:

Table 1. Title of the table. Description or notes.

Supplementary material

List any supplementary files or additional material submitted with the manuscript. All supplementary files must be cited in the main manuscript in numerical order.

Example:

"Supplementary Figure S1: Detailed methodology flowchart."

Keywords

Please attach any relevant hubs (i.e. keywords) to your submission in the ResearchHub web app.

Submission (.docx & .pdf)

Please submit both a native “.docx” (clear all tracked changes & comments) and “.pdf” file.

ResearchHub: Submission Template

Please use this template to prepare your manuscript for submission to ResearchHub. Remove any italicized instructions before submission.

Title of the Manuscript

Provide a concise and informative title that reflects the content of your manuscript.

AUTHORS AND AFFILIATIONS

List all authors (Name Middle initial. Last name) and their affiliations.

First Author¹, Second Author², Third Author^{3*}

¹Department, Institution, City, Country

²Department, Institution, City, Country

³Department, Institution, City, Country

*Corresponding author: email@example.com

ABSTRACT

Provide a structured abstract of up to 250 words summarizing the Background, Methods, Results, and Conclusions of the study. Refer to the following resource for best practices:

<https://www.nature.com/documents/nature-summary-paragraph.pdf>

INTRODUCTION

Provide a background and clearly state the research question, hypothesis or objectives, and significance of the study with reference to previous work.. or .

MATERIALS AND METHODS_[JK3]

Provide detailed information to allow replication of the study.

Study Design

Describe the type of study and its design.

Participants or Subjects

Human Subjects Specify:

- Selection and exclusion criteria
- Sample size calculation and justification
- Demographic characteristics

- Recruitment methods
- Ethical approvals and institutional review board numbers
- Informed consent procedures
- Group allocation methods

Animal Models Detail:

- Species, strain, and genetic background
- Age, sex, and weight ranges
- Source/vendor and stock numbers
- Housing and husbandry conditions
- Breeding schemes and genetic crosses
- Genotyping procedures
- Animal health status and monitoring
- Euthanasia methods
- Number of animals per experimental group

Cell Lines Specify:

- Cell line name and source/repository
- Authentication methods
- Mycoplasma testing status
- Passage numbers used
- Culture conditions (media, supplements, environment)
- Cell harvesting and maintenance protocols
- Quality control measures

Other Model Systems Include relevant details for:

- Bacterial/yeast strains
- Plant varieties
- Organoid systems
- Tissue explants
- Computational models

For clinical trials, include the registration number and registry name.

Materials

All materials used in the study must be described with sufficient detail to enable reproducibility.

Include:

- *Chemical compounds: Full chemical names, purity grades, CAS numbers (where applicable), and manufacturer details*
- *Biological materials: Species, strain designations, source/supplier, authentication methods, and relevant identifiers*
- *Engineering materials/equipment: Model numbers, specifications, manufacturer information, and critical operating parameters*
- *Software/computational tools: Version numbers, settings, and relevant parameters*

For novel materials or methods, provide detailed preparation protocols. For well-established materials and methods, cite appropriate references. Include any safety considerations or special handling requirements when relevant. All materials must comply with relevant safety and ethical guidelines.

Data Collection

Explain the methods and tools used for data collection by specifying:

- *Measurement techniques and instruments*
- *Calibration procedures*
- *Sampling intervals and conditions*
- *Quality control measures*
- *Data recording methods and formats*
- *Validation procedures*
- *Observer training (if applicable)*

Interventions or Procedures

Describe any interventions or experimental procedures by specifying:

- *Step-by-step experimental protocols*
- *Control and treatment conditions*
- *Duration and frequency of interventions*
- *Equipment settings and parameters*
- *Environmental conditions*
- *Quality assurance measures*
- *Modifications to standard protocols (if any)*

Data Analysis

Describe the statistical methods used and the allowances made (if any for controlling bias or unwanted sources of variability. Include:

- *Statistical tests employed with justification*
- *Software packages and versions used*
- *Data preprocessing steps*
- *Handling of missing data*
- *Methods for controlling bias*
- *Power analysis (if applicable)*
- *Effect size calculations*

- *Confidence intervals*
- *Statistical significance criteria*
- *Methods for handling outliers*
- *Validation procedures for analytical methods*

RESULTS AND DISCUSSION

Present the findings logically, using text, tables, and figures as appropriate.

Main Findings

Detail the primary outcomes of the study.

Discussion

Interpret the results in the context of existing literature.

Key Insights

Highlight the significance and implications of the findings.

Limitations

Discuss any limitations of the study.

CONCLUSIONS

Summarize the main findings and their potential impact.

ACKNOWLEDGMENTS

Recognize individuals or organizations that assisted in the study but are not listed as authors.

Example:

"The authors thank Jane Doe for her assistance with data collection."

FUNDING

Disclose all sources of funding for the research.

Example:

"This work was supported by the National Science Foundation [Grant No. XXXX]."

If not add: This work received no specific grant funding .

AUTHOR CONTRIBUTIONS

Specify the contributions of each author using their initials.

Example:

- **A.B.** conceived and designed the experiments.
- **C.D.** performed the experiments.
- **E.F.** analyzed the data.
- **A.B. and E.F.** wrote the manuscript.

- All authors read and approved the final manuscript.

DATA AND CODE AVAILABILITY

State where the data supporting the findings can be found. We highly recommend leveraging existing repositories such as Zenodo to provide open access to data and GitHub to provide open source software access alongside your publication.

- *Data: CC0 or CC-BY*
- *Code: MIT, Apache, or similar open source license*

Examples:

- "The datasets generated during and/or analyzed during the current study are available from the corresponding author on reasonable request."
- "All data are included in the manuscript and supplementary materials."
- "Data is available in a public repository [provide DOI or URL]."

CONFLICTS OF INTEREST

*This section is **mandatory**.*

All authors must disclose any financial or personal relationships that could influence the work.

Example:

"The authors declare that they have no conflicts of interest."

If there are conflicts to disclose, please provide detailed information.

Example:

"Author A.B. has received research grants from Company X. Author C.D. is a consultant for Company Y."

ETHICAL APPROVAL

Include the name of the ethics committee that approved the study and the approval number.

Examples:

Human Subject Research:

"This study was approved by the Institutional Review Board of [Institution Name] (approval number: XXX-YYYY). All participants provided written informed consent before enrollment."

Animal Research:

"All animal procedures were approved by the Institutional Animal Care and Use Committee of [Institution Name] (protocol number: IACUC-XXXX) and conducted in compliance with the Guide for the Care and Use of Laboratory Animals."

CONSENT TO PARTICIPATE

State that informed consent was obtained from all participants.

Example:

"Informed consent was obtained from all individual participants included in the study."

If not, please add the following statement: "Ethics and consent were not required for the performed study."

References

List all references cited in the text and in the References section in a consistent citation style (Vancouver). Ensure all references are complete and accurate.

Example format:

1. Author(s). Title of the article. *Journal Name*. Year; Volume (Issue). DOI