

PEER REVIEW

TRAINING

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INTRODUCTION



What is Peer Review?

Peer review is the process by which experts in the field evaluate the quality, relevance, and accuracy of submitted manuscripts..

It is critical for maintaining the standards of scientific research and ensuring that only high-quality, valid studies are published.

KEY ASPECTS OF PEER REVIEW



Understanding the Review Process

Have knowledge on the different stages of peer review, from initial submission to final decision.

Evaluating Manuscripts

Use the provided review form to evaluate manuscripts

Providing Constructive Feedback

Learn how to write clear, constructive, and unbiased review reports.

Ethical Considerations

Understand the ethical guidelines, including confidentiality, conflict of interest, and plagiarism detection.

Using Online Review Systems

Get familiar with the online platforms used for manuscript submission and review.

TYPES OF PEER REVIEW



Single-Blind

Reviewers know the identity of the authors, but authors do not know the identity of the reviewers.

Double-Blind

Both reviewers and authors are anonymous to each other.

Open Peer Review

• Both reviewers and authors know each other's identities, and the review reports may be published alongside the article.

Post-Publication Review

• Review occurs after the article is published, allowing the wider scientific community to evaluate it.

PROCESS OF PEER REVIEW



Submission

 Authors submit their manuscript to a journal.

Initial Check

 The journal's editorial team performs a preliminary assessment for suitability and basic standards.

Reviewer

 Editors select experts (peers) to review the manuscript.

Review

Reviewers
evaluate the
manuscript's
methodology,
validity,
significance,
and clarity.

Feedback

Reviewers
provide
detailed
feedback,
including
recommendatio
ns for
acceptance,
revision, or
rejection.

Editorial Decision

 Based on reviewers' comments, the editor makes the final decision on the manuscript.

CRITERIA FOR REVIEW



Originality

 Whether the research provides new insights or advances knowledge in the field.

Validity

 The soundness of the study's methodology and accuracy of its results.

Significance

The importance and impact of the findings.

Clarity

 The quality of writing and presentation, including organization and readability.

Ethical Standards

 Adherence to ethical guidelines in research, including proper citation and avoidance of plagiarism.

ROLES AND RESPONSIBILITIES IN PEER REVIEW



Reviewers

 Provide detailed, unbiased, and constructive feedback to help improve the manuscript.

Editors

 Oversee the review process, make publication decisions, and ensure the integrity of the reviews.

Authors

 Respond to reviewers' comments and revise their manuscripts to address feedback.

BENEFITS OF PEER REVIEW



Ensures research quality and credibility.

Provides authors with constructive feedback to improve their work.

Helps editors make informed publication decisions.

Enhances the reputation of the journal.

CHALLENGES OF PEER REVIEW



Bias

 Potential for reviewer bias based on personal or professional relationships.

Time-Consuming

 Lengthy process that can delay publication.

Inconsistency

 Variability in reviewers' standards and feedback quality.

Accessibility

 Limited number of qualified reviewers can lead to overburdening.

TRENDS & INNOVATION IN PEER REVIEW



Open Peer Review

Increasing transparency by disclosing reviewer identities and reports.

Collaborative Review

Multiple reviewers or a community of experts providing feedback.

Preprint Servers

 Early sharing of research before formal peer review, allowing for broader initial feedback.

Artificial Intelligence

Al tools to assist in initial manuscript screening and reviewer selection.

ETHICAL CONSIDERATIONS IN PEER REVIEW



Confidentiality

Conflict of Interest

Transparency

Protecting the confidentiality of the manuscript and reviewer identities (unless open review).

Reviewers must disclose any potential conflicts that could influence their judgment.

Clear communication about the review process and criteria.

THANK YOU!

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