



[REGISTER \(/INDEX.HTML#REGISTER\)](#) [LOGIN \(/INDEX.HTML#LOGIN\)](#)

[Reviewers \(/Reviewers/index.html\)](#) > [Journal Reviewers \(/Reviewers/journal-reviewers/index.html\)](#) > [How to Perform a Peer Review \(/Reviewers/journal-reviewers/how-to-perform-a-peer-review/index.html\)](#) > [Step by Step Guide to Reviewing a Manuscript](#)

[What is peer review \(/Reviewers/journal-reviewers/what-is-peer-review/index.html\)](#) | [How to perform a peer review \(/Reviewers/journal-reviewers/how-to-perform-a-peer-review/index.html\)](#) | [Become a reviewer \(/Reviewers/journal-reviewers/becoming-a-reviewer.html/index.html\)](#) | [Reviewer Recognition for reviewers \(/Reviewers/journal-reviewers/recognition-for-reviewers/index.html\)](#) | [Reviewer Resources \(/Reviewers/journal-reviewers/tools-and-resources/index.html\)](#)

Step by step guide to reviewing a manuscript

When you receive an invitation to peer review, you should be sent a copy of the paper's abstract to help you decide whether you wish to do the review. Try to respond to invitations promptly - it will prevent delays. It is also important at this stage to declare any potential Conflict of Interest.

Overview of the Review Report Format

The structure of the review report varies between journals. Some follow an informal structure, while others have a more formal approach.

"Number your comments!!!" (Jonathon Halbesleben, Editor of Journal of Occupational and Organizational Psychology)

Informal Structure

Many journals don't provide criteria for reviews beyond asking for your 'analysis of merits'. In this case, you may wish to familiarize yourself with examples of other reviews done for the journal, which the editor should be able to provide or, as you gain experience, rely on your own evolving style.

Formal Structure

Page Content

- Overview of the Review Report Format
- The First Read-Through
- First Read Considerations
- Spotting Potential Major Flaws
- Concluding the First Reading
- Rejection After the First Reading
- Before Starting the Second Read-Through
- Doing the Second Read-Through
- The Second Read-Through: Section by Section Guidance
- How to Structure Your Report
- On Presentation and Style
- Criticisms & Confidential Comments to Editors
- The Recommendation
- When Recommending Rejection
- Additional Resources

Other journals require a more formal approach. Sometimes they will ask you to address specific questions in your review via a questionnaire. Or they might want you to rate the manuscript on various attributes using a scorecard. Often you can't see these until you log in to submit your review. So when you agree to the work, it's worth checking for any journal-specific guidelines and requirements. If there are formal guidelines, let them direct the structure of your review.

In Both Cases

Whether specifically required by the reporting format or not, you should expect to compile comments to authors and possibly confidential ones to editors only.

The First Read-Through

Following the invitation to review, when you'll have received the article abstract, you should already understand the aims, key data and conclusions of the manuscript. If you don't, make a note now that you need to feedback on how to improve those sections.

The first read-through is a skim-read. It will help you form an initial impression of the paper and get a sense of whether your eventual recommendation will be to accept or reject the paper.

First Read Considerations

Keep a pen and paper handy when skim-reading.

Try to bear in mind the following questions - they'll help you form your overall impression:

- What is the main question addressed by the research? Is it relevant and interesting?
- How original is the topic? What does it add to the subject area compared with other published material?
- Is the paper well written? Is the text clear and easy to read?
- Are the conclusions consistent with the evidence and arguments presented? Do they address the main question posed?
- If the author is disagreeing significantly with the current academic consensus, do they have a substantial case? If not, what would be required to make their case credible?
- If the paper includes tables or figures, what do they add to the paper? Do they aid understanding or are they superfluous?

Spotting Potential Major Flaws

While you should read the whole paper, making the right choice of what to read first can save time by flagging major problems early on.

Editors say, "*Specific recommendations for remedying flaws are VERY welcome.*"

Examples of possibly major flaws include:

- Drawing a conclusion that is contradicted by the author's own statistical or qualitative evidence
- The use of a discredited method
- Ignoring a process that is known to have a strong influence on the area under study

If experimental design features prominently in the paper, first check that the methodology is sound - if not, this is likely to be a major flaw.

You might examine:

- The sampling in analytical papers
- The sufficient use of control experiments
- The precision of process data
- The regularity of sampling in time-dependent studies
- The validity of questions, the use of a detailed methodology and the data analysis being done systematically (in qualitative research)
- That qualitative research extends beyond the author's opinions, with sufficient descriptive elements and appropriate quotes from interviews or focus groups

Major Flaws in Information

If methodology is less of an issue, it's often a good idea to look at the data tables, figures or images first. Especially in science research, it's all about the information gathered. If there are critical flaws in this, it's very likely the manuscript will need to be rejected. Such issues include:

- Insufficient data
- Statistically non-significant variations
- Unclear data tables
- Contradictory data that either are not self-consistent or disagree with the conclusions
- Confirmatory data that adds little, if anything, to current understanding - unless strong arguments for such repetition are made

If you find a major problem, note your reasoning and clear supporting evidence (including citations).

Concluding the First Reading

After the initial read and using your notes, including those of any major flaws you found, draft the first two paragraphs of your review - the first summarizing the *research question* addressed and the second the *contribution* of the work. If the journal has a prescribed reporting format, this draft will still help you compose your thoughts.

The First Paragraph

This should state the main question addressed by the research and summarize the goals, approaches, and conclusions of the paper. It should:

- Help the editor properly contextualize the research and add weight to your judgement
- Show the author what key messages are conveyed to the reader, so they can be sure they are achieving what they set out to do
- Focus on successful aspects of the paper so the author gets a sense of what they've done well

The Second Paragraph

This should provide a conceptual overview of the contribution of the research. So consider:

- Is the paper's premise interesting and important?
- Are the methods used appropriate?

- Do the data support the conclusions?

After drafting these two paragraphs, you should be in a position to decide whether this manuscript is seriously flawed and should be rejected (see the next section). Or whether it is publishable in principle and merits a detailed, careful read through.

Rejection After the First Reading

Even if you are coming to the opinion that an article has serious flaws, make sure you read the whole paper. This is very important because you may find some really positive aspects that can be communicated to the author. This could help them with future submissions.

A full read-through will also make sure that any initial concerns are indeed correct and fair. After all, you need the context of the whole paper before deciding to reject. If you still intend to recommend rejection, see the section "When recommending rejection."

Before Starting the Second Read-Through

Once the paper has passed your first read and you've decided the article is publishable in principle, one purpose of the second, detailed read-through is to help prepare the manuscript for publication. Of course, you may still decide to reject it following a second reading.

The benchmark for acceptance is whether the manuscript makes a useful contribution to the knowledge base or understanding of the subject matter. It need not be fully complete research - it may be an interim paper. After all research is an incomplete, on-going project by its nature. The detailed read-through should take no more than an hour for the moderately experienced reviewer.

"Offer clear suggestions for how the authors can address the concerns raised. In other words, if you're going to raise a problem, provide a solution." (Jonathon Halbesleben, Editor of Journal of Occupational and Organizational Psychology)

Preparation

To save time and simplify the review:

- Don't rely solely upon inserting comments on the manuscript document - make separate notes
- Try to group similar concerns or praise together
- If using a review program to note directly onto the manuscript, still try grouping the concerns and praise in separate notes - it helps later
- Note line numbers of text upon which your notes are based - this helps you find items again and also aids those reading your review
- Keep images, graphs and data tables in clear view - either print them off or have them in view on a second computer monitor or window

Now that you have completed your preparations, you're ready to spend an hour or so reading carefully through the manuscript.

Doing the Second Read-Through

As you're reading through the manuscript for a second time, you'll need to keep in mind the argument's construction, the clarity of the language and content.

With regard to the argument's construction, you should identify:

- Any places where the meaning is unclear or ambiguous
- Any factual errors
- Any invalid arguments

You may also wish to consider:

- Does the title properly reflect the subject of the paper?
- Does the abstract provide an accessible summary of the paper?
- Do the keywords accurately reflect the content?
- Is the paper an appropriate length?
- Are the key messages short, accurate and clear?

Check the Language

Not every submission is well written. Part of your role is to make sure that the text's meaning is clear.

Editors say, "*If a manuscript has many English language and editing issues, please do not try and fix it. If it is too bad, note that in your review and it should be up to the authors to have the manuscript edited.*"

If the article is difficult to understand, you should have rejected it already. However, if the language is poor but you understand the core message, see if you can suggest improvements to fix the problem:

- Are there certain aspects that could be communicated better, such as parts of the discussion?
- Should the authors consider resubmitting to the same journal after language improvements?
- Would you consider looking at the paper again once these issues are dealt with?

On Grammar and Punctuation

Your primary role is judging the research content. Don't spend time polishing grammar or spelling. Editors will make sure that the text is at a high standard before publication. However, if you spot grammatical errors that affect clarity of meaning, then it's important to highlight these. Expect to suggest such amendments - it's rare for a manuscript to pass review with no corrections.

A 2010 study of nursing journals found that 79% of recommendations by reviewers were influenced by grammar and writing style (Shattel, et al., 2010).

The Second Read-Through: Section by Section Guidance

1. The Introduction

A well-written introduction:

- Sets out the argument
- Summarizes recent research related to the topic
- Highlights gaps in current understanding or conflicts in current knowledge
- Establishes the originality of the research aims by demonstrating the need for investigations in the topic area

- Gives a clear idea of the target readership, why the research was carried out and the novelty and topicality of the manuscript

Originality and Topicality

Originality and topicality can only be established in the light of recent authoritative research. For example, it's impossible to argue that there is a conflict in current understanding by referencing articles that are 10 years old.

Authors may make the case that a topic hasn't been investigated in several years and that new research is required. This point is only valid if researchers can point to recent developments in data gathering techniques or to research in indirectly related fields that suggest the topic needs revisiting. Clearly, authors can only do this by referencing recent literature. Obviously, where older research is seminal or where aspects of the methodology rely upon it, then it is perfectly appropriate for authors to cite some older papers.

Editors say, *"Is the report providing new information; is it novel or just confirmatory of well-known outcomes?"*

Aims

It's common for the introduction to end by stating the research aims. By this point you should already have a good impression of them - if the explicit aims come as a surprise, then the introduction needs improvement.

2. Materials and Methods

Academic research should be replicable, repeatable and robust - and follow best practice.

Replicable Research

This makes sufficient use of:

- Control experiments
- Repeated analyses
- Repeated experiments
- Sampling

These are used to make sure observed trends are not due to chance and that the same experiment could be repeated by other researchers - and result in the same outcome. Statistical analyses will not be sound if methods are not replicable. Where research is not replicable, the paper should be recommended for rejection.

Repeatable Methods

These give enough detail so that other researchers are able to carry out the same research. For example, equipment used or sampling methods should all be described in detail so that others could follow the same steps. Where methods are not detailed enough, it's usual to ask for the methods section to be revised.

Robust Research

This has enough data points to make sure the data are reliable. If there are insufficient data, it might be appropriate to recommend revision. You should also consider whether there is any in-built bias not nullified by the control experiments.

Best Practice

During these checks you should keep in mind best practice:

- Standard guidelines were followed (e.g. the CONSORT Statement for reporting randomized trials)
- The health and safety of all participants in the study was not compromised
- Ethical standards were maintained

If the research fails to reach relevant best practice standards, it's usual to recommend rejection. What's more, you don't then need to read any further.

3. Results and Discussion

This section should tell a coherent story - What happened? What was discovered or confirmed?

Certain patterns of good reporting need to be followed by the author:

- They should start by describing in simple terms what the data show
- They should make reference to statistical analyses, such as significance or goodness of fit
- Once described, they should evaluate the trends observed and explain the significance of the results to wider understanding. This can only be done by referencing published research
- The outcome should be a critical analysis of the data collected

Discussion should always, at some point, gather all the information together into a single whole. Authors should describe and discuss the overall story formed. If there are gaps or inconsistencies in the story, they should address these and suggest ways future research might confirm the findings or take the research forward.

4. Conclusions

This section is usually no more than a few paragraphs and may be presented as part of the results and discussion, or in a separate section. The conclusions should reflect upon the aims - whether they were achieved or not - and, just like the aims, should not be surprising. If the conclusions are not evidence-based, it's appropriate to ask for them to be re-written.

5. Information Gathered: Images, Graphs and Data Tables

If you find yourself looking at a piece of information from which you cannot discern a story, then you should ask for improvements in presentation. This could be an issue with titles, labels, statistical notation or image quality.

Where information is clear, you should check that:

- The results seem plausible, in case there is an error in data gathering
- The trends you can see support the paper's discussion and conclusions
- There are sufficient data. For example, in studies carried out over time are there sufficient data points to support the trends described by the author?

You should also check whether images have been edited or manipulated to emphasize the story they tell. This may be appropriate but only if authors report on how the image has been edited (e.g. by highlighting certain parts of an image). Where you feel that an image has been edited or manipulated without explanation, you should highlight this in a confidential comment to the editor in your report.

6. List of References

You will need to check referencing for accuracy, adequacy and balance.

Accuracy

Where a cited article is central to the author's argument, you should check the accuracy and format of the reference - and bear in mind different subject areas may use citations differently. Otherwise, it's the editor's role to exhaustively check the reference section for accuracy and format.

Adequacy

You should consider if the referencing is adequate:

- Are important parts of the argument poorly supported?
- Are there published studies that show similar or dissimilar trends that should be discussed?
- If a manuscript only uses half the citations typical in its field, this may be an indicator that referencing should be improved - but don't be guided solely by quantity
- References should be relevant, recent and readily retrievable

Balance

Check for a well-balanced list of references that is:

- Helpful to the reader
- Fair to competing authors
- Not over-reliant on self-citation
- Gives due recognition to the initial discoveries and related work that led to the work under assessment

You should be able to evaluate whether the article meets the criteria for balanced referencing without looking up every reference.

7. Plagiarism

By now you will have a deep understanding of the paper's content - and you may have some concerns about plagiarism.

Identified Concern

If you find - or already knew of - a very similar paper, this may be because the author overlooked it in their own literature search. Or it may be because it is very recent or published in a journal slightly outside their usual field.

You may feel you can advise the author how to emphasize the novel aspects of their own study, so as to better differentiate it from similar research. If so, you may ask the author to discuss their aims and results, or modify their conclusions, in light of the similar article. Of course, the research similarities may be so great that they render the work unoriginal and you have no choice but to recommend rejection.

"It's very helpful when a reviewer can point out recent similar publications on the same topic by other groups, or that the authors have already published some data elsewhere." (Editor feedback)

Suspected Concern

If you suspect plagiarism, including self-plagiarism, but cannot recall or locate exactly what is being plagiarized, notify the editor of your suspicion and ask for guidance.

Most editors have access to software that can check for plagiarism.

Editors are not out to police every paper, but when plagiarism is discovered during peer review it can be properly addressed ahead of publication. If plagiarism is discovered only after publication, the consequences are worse for both authors and readers, because a retraction may be necessary.

For detailed guidelines see COPE's Ethical guidelines for reviewers (https://publicationethics.org/files/Ethical_Guidelines_For_Peer_Reviewers_2.pdf) and Wiley's Best Practice Guidelines on Publishing Ethics (<https://authorservices.wiley.com/ethics-guidelines/index.html>).

8. Search Engine Optimization (SEO)

After the detailed read-through, you will be in a position to advise whether the title, abstract and key words are optimized for search purposes. In order to be effective, good SEO terms will reflect the aims of the research.

A clear title and abstract will improve the paper's search engine rankings and will influence whether the user finds and then decides to navigate to the main article. The title should contain the relevant SEO terms early on. This has a major effect on the impact of a paper, since it helps it appear in search results. A poor abstract can then lose the reader's interest and undo the benefit of an effective title - whilst the paper's abstract may appear in search results, the potential reader may go no further.

So ask yourself, while the abstract may have seemed adequate during earlier checks, does it:

- Do justice to the manuscript in this context?
- Highlight important findings sufficiently?
- Present the most interesting data?

Editors say, "*Does the Abstract highlight the important findings of the study?*"

How to Structure Your Report

If there is a formal report format, remember to follow it. This will often comprise a range of questions followed by comment sections. Try to answer all the questions. They are there because the editor felt that they are important. If you're following an informal report format you could structure your report in three sections: summary, major issues, minor issues.

Summary

- Give positive feedback first. Authors are more likely to read your review if you do so. But don't overdo it if you will be recommending rejection
- Briefly summarize what the paper is about and what the findings are
- Try to put the findings of the paper into the context of the existing literature and current knowledge
- Indicate the significance of the work and if it is novel or mainly confirmatory
- Indicate the work's strengths, its quality and completeness
- State any major flaws or weaknesses and note any special considerations. For example, if previously held theories are being overlooked

Major Issues

- Are there any major flaws? State what they are and what the severity of their impact is on the paper
- Has similar work already been published without the authors acknowledging this?
- Are the authors presenting findings that challenge current thinking? Is the evidence they present strong enough to prove their case? Have they cited all the relevant work that would contradict their thinking and addressed it appropriately?
- If major revisions are required, try to indicate clearly what they are
- Are there any major presentational problems? Are figures & tables, language and manuscript structure all clear enough for you to accurately assess the work?
- Are there any ethical issues? If you are unsure it may be better to disclose these in the confidential comments section

Minor Issues

- Are there places where meaning is ambiguous? How can this be corrected?
- Are the correct references cited? If not, which should be cited instead/also? Are citations excessive, limited, or biased?
- Are there any factual, numerical or unit errors? If so, what are they?
- Are all tables and figures appropriate, sufficient, and correctly labelled? If not, say which are not

On Presentation and Style

Your review should ultimately help the author improve their article. So be polite, honest and clear. You should also try to be objective and constructive, not subjective and destructive.

You should also:

- Write clearly and so you can be understood by people whose first language is not English
- Avoid complex or unusual words, especially ones that would even confuse native speakers
- Number your points and refer to page and line numbers in the manuscript when making specific comments
- If you have been asked to only comment on specific parts or aspects of the manuscript, you should indicate clearly which these are
- Treat the author's work the way you would like your own to be treated

Criticisms & Confidential Comments to Editors

Most journals give reviewers the option to provide some confidential comments to editors. Often this is where editors will want reviewers to state their recommendation - see the next section - but otherwise this area is best reserved for communicating malpractice such as suspected plagiarism, fraud, unattributed work, unethical procedures, duplicate publication, bias or other conflicts of interest.

However, this doesn't give reviewers permission to 'backstab' the author. Authors can't see this feedback and are unable to give their side of the story unless the editor asks them to. So in the spirit of fairness, write comments to editors as though authors might read them too.

The Recommendation

Most journals give reviewers the option to provide some confidential comments to editors. Often this is where editors will want reviewers to state their recommendation - see the next section - but otherwise this area is best reserved for communicating malpractice such as suspected plagiarism, fraud, unattributed work, unethical procedures, duplicate

publication, bias or other conflicts of interest.

Reviewers should check the preferences of individual journals as to where they want review decisions to be stated. In particular, bear in mind that some journals will not want the recommendation included in any comments to authors, as this can cause editors difficulty later - see Section 11 for more advice about working with editors.

You will normally be asked to indicate your recommendation (e.g. accept, reject, revise and resubmit, etc.) from a fixed-choice list and then to enter your comments into a separate text box.

Recommending Acceptance

If you're recommending acceptance, give details outlining why, and if there are any areas that could be improved. Don't just give a short, cursory remark such as 'great, accept'. See Improving the Manuscript

Recommending Revision

Where improvements are needed, a recommendation for major or minor revision is typical. You may also choose to state whether you opt in or out of the post-revision review too. If recommending revision, state specific changes you feel need to be made. The author can then reply to each point in turn.

Some journals offer the option to recommend rejection with the possibility of resubmission – this is most relevant where substantial, major revision is necessary.

What can reviewers do to help? *"Be clear in their comments to the author (or editor) which points are absolutely critical if the paper is given an opportunity for revision."* (Jonathon Halbesleben, Editor of Journal of Occupational and Organizational Psychology)

Recommending Rejection

If recommending rejection or major revision, state this clearly in your review (and see the next section, 'When recommending rejection').

When Recommending Rejection

Where manuscripts have serious flaws you should not spend any time polishing the review you've drafted or give detailed advice on presentation.

Editors say, *"If a reviewer suggests a rejection, but her/his comments are not detailed or helpful, it does not help the editor in making a decision."*

In your recommendations for the author, you should:

- Give constructive feedback describing ways that they could improve the research
- Keep the focus on the research and not the author. This is an extremely important part of your job as a reviewer
- Avoid making critical confidential comments to the editor while being polite and encouraging to the author - the latter may not understand why their manuscript has been rejected. Also, they won't get feedback on how to improve their research and it could trigger an appeal

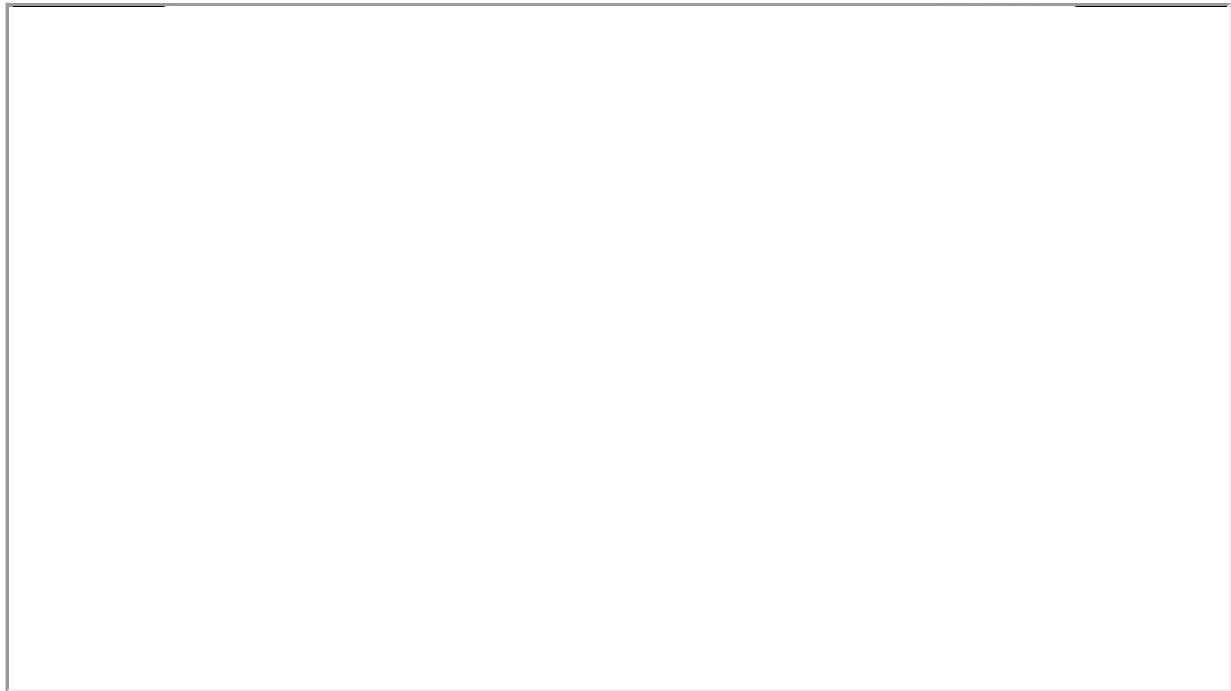
Remember to give constructive criticism even if recommending rejection. This helps developing researchers improve their work and explains to the editor why you felt the manuscript should not be published.

"When the comments seem really positive, but the recommendation is rejection...it puts the editor in a tough position of having to reject a paper when the comments make it sound like a great paper." (Jonathon Halbesleben, Editor of Journal of Occupational and Organizational Psychology)

Additional Resources

Visit our Wiley Author Learning and Training Channel (<https://authorservices.wiley.com/author-resources/Journal-Authors/Prepare/webinars/index.html>) for expert advice on peer review.

Watch the video, Ethical considerations of Peer Review



➤ [Author Resources \(/author-resources/index.html\)](/author-resources/index.html)

▼ [Reviewers \(/Reviewers/index.html\)](/Reviewers/index.html)

▼ [Journal Reviewers \(/Reviewers/journal-reviewers/index.html\)](/Reviewers/journal-reviewers/index.html)

➤ [What is Peer Review \(/Reviewers/journal-reviewers/what-is-peer-review/index.html\)](/Reviewers/journal-reviewers/what-is-peer-review/index.html)

▼ [How to Perform a Peer Review \(/Reviewers/journal-reviewers/how-to-perform-a-peer-review/index.html\)](/Reviewers/journal-reviewers/how-to-perform-a-peer-review/index.html)

[General and Ethical Guidelines \(/Reviewers/journal-reviewers/how-to-perform-a-peer-review/general-and-ethical-guidelines.html\)](/Reviewers/journal-reviewers/how-to-perform-a-peer-review/general-and-ethical-guidelines.html)

[Step by Step Guide to Reviewing a Manuscript \(/Reviewers/journal-reviewers/how-to-perform-a-peer-review/step-by-step-guide-to-reviewing-a-manuscript.html\)](/Reviewers/journal-reviewers/how-to-perform-a-peer-review/step-by-step-guide-to-reviewing-a-manuscript.html)

[Top Tips for Peer Reviewers \(/Reviewers/journal-reviewers/how-to-perform-a-peer-review/top-tips-for-peer-reviewers.html\)](/Reviewers/journal-reviewers/how-to-perform-a-peer-review/top-tips-for-peer-reviewers.html)

[Working with Editors \(/Reviewers/journal-reviewers/how-to-perform-a-peer-review/work-with-editors.html\)](/Reviewers/journal-reviewers/how-to-perform-a-peer-review/work-with-editors.html)

[Reviewing Revised Manuscripts \(/Reviewers/journal-reviewers/how-to-perform-a-peer-review/reviewing-revised-manuscripts.html\)](#)

[Tips for Reviewing a Clinical Manuscript \(/Reviewers/journal-reviewers/how-to-perform-a-peer-review/tips-for-reviewing-a-clinical-manuscript.html\)](#)

[Reviewing Registered Reports \(/Reviewers/journal-reviewers/how-to-perform-a-peer-review/reviewing-registered-reports.html\)](#)

- [Becoming a Reviewer \(/Reviewers/journal-reviewers/becoming-a-reviewer.html/index.html\)](#)
- [Recognition for Reviewers \(/Reviewers/journal-reviewers/recognition-for-reviewers/index.html\)](#)
- [Peer Review Resources \(/Reviewers/journal-reviewers/tools-and-resources/index.html\)](#)
- [Book Reviewers \(/Reviewers/book-reviewers/index.html\)](#)
- [Editors \(/editors/index.html\)](#)
- [Ethics Guidelines \(/ethics-guidelines/index.html\)](#)
- [Help \(/help/index.html\)](#)
- [Open Research \(/open-research/index.html\)](#)

[Wiley.com \(http://www.wiley.com/\)](http://www.wiley.com/) | [Wiley Online Library \(http://onlinelibrary.wiley.com/\)](http://onlinelibrary.wiley.com/) |

[Privacy policy \(http://www.wiley.com/WileyCDA/Section/id-301465.html\)](http://www.wiley.com/WileyCDA/Section/id-301465.html) | [Terms & Conditions \(http://www.wiley.com/go/terms\)](http://www.wiley.com/go/terms) |

[Contact us \(https://hub.wiley.com/docs/DOC-11761?referrer=authorservices\)](https://hub.wiley.com/docs/DOC-11761?referrer=authorservices) |

[Help \(https://hub.wiley.com/community/support/authorservices\)](https://hub.wiley.com/community/support/authorservices)

Copyright © 2000-2019 by John Wiley & Sons, Inc., or related companies. All rights reserved.

WILEY