

HOW TO PEER REVIEW –

A WORKSHOP FOR RESEARCHERS

Presenter(s) / Event / Date / Etc.



GOALS

How to....

- ... get ready to review
- ... (not) get in over your head
- ... get the review done
- ... get asked again
- ... get credit



WHY WE'RE HERE

- Gaps in training
- Support the scientific process
- Acknowledge volunteer efforts



WHY ARE YOU HERE?

How confident do you feel about reviewing?

What do you want from this workshop?

What opportunities do you have to practice

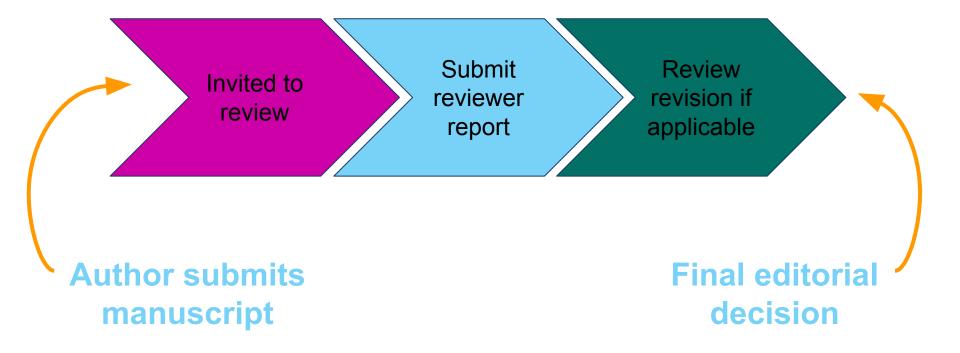
your reviewing skills?

What else can we do to help?





Peer review process at a glance





Types of peer review



Anonymous

Single
anonymized:
Reviewers know
the authors'
identities, but
reviewer names
are protected.
Double-anonymiz
ed: Reviewer and
author names are
protected.



Signed

Reviewers sign their comments. Authors receive reviewer names in the decision letter.



Collaborative

Reviewers
collaborate and
submit joint
comments, or in
some cases
confer with
authors and
editors during the
review process.



Portable

Reviewer comments can be shared with another journal. Usually but not always between journals of the same publisher.



Published

Reviewer comments and/or names are published with the article or preprint.



Post-public ation

After a manuscript is posted the community reviews the research in an open forum. Reviewer names are usually published with their comments.

Publication Process at PLOS



^{*} Preprint not offered for PLOS Medicine



Who's who in peer review?













How do reviewers benefit from participating in peer review?





How do reviewers benefit from participating in peer review?



05:00

The role of the reviewer

Serving as a peer reviewer

Out of your control

Who for, when, and what you get asked to review

Within your control

- Time management
- Behavior and tone
- Recognize bias
- Do your homework
- Networking



5 parts of peer review

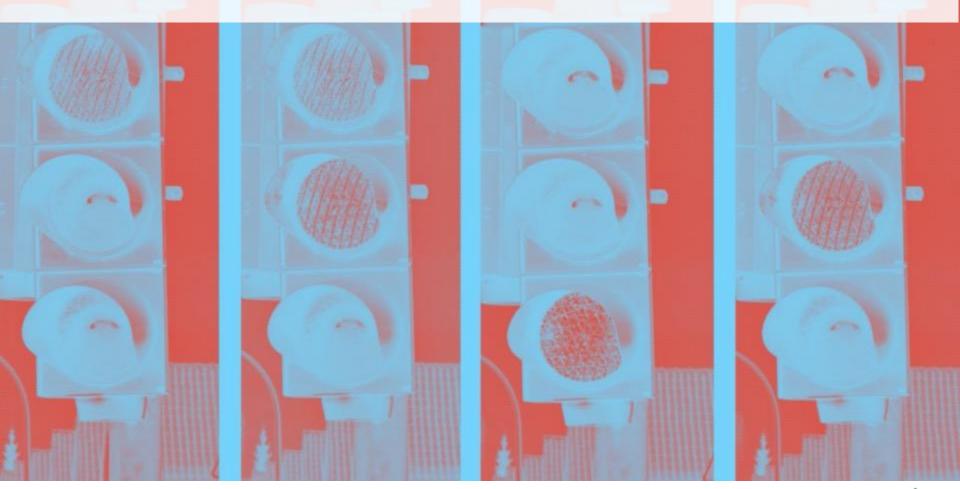
- 1. Responding to the invitation
- 2. Reading the manuscript
- 3. Writing the reviewer report
- 4. Getting ready to become a reviewer
- 5. Getting recognized for your reviews

Review work

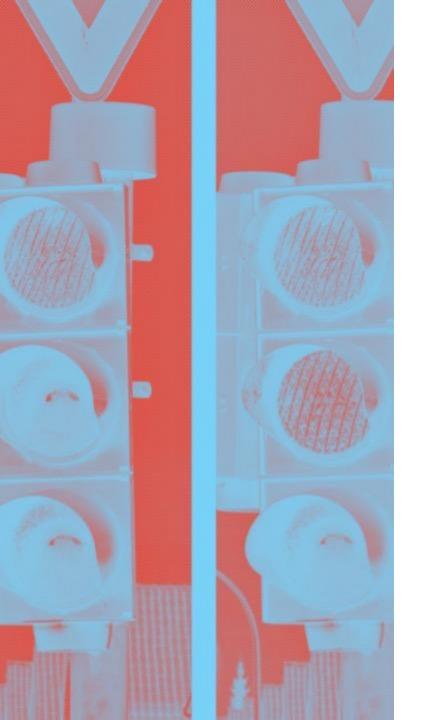




Responding to an invitation



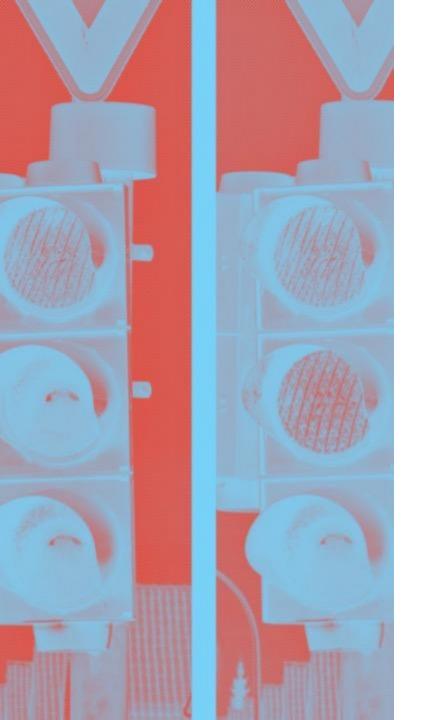




Should you say yes?

- Do you have the right expertise?
- Do you have the time?
- Can you be objective?





Activity: What if...

... the topic is super fascinating—but you know nothing about it

... you're over-extended

... you're friends with the author



Competing interests





What is a competing interest?

A competing interest is anything that interferes with, **or could reasonably be perceived as interfering with**, the full and objective presentation, peer review, editorial decision-making, or publication of research or non-research articles submitted to PLOS.

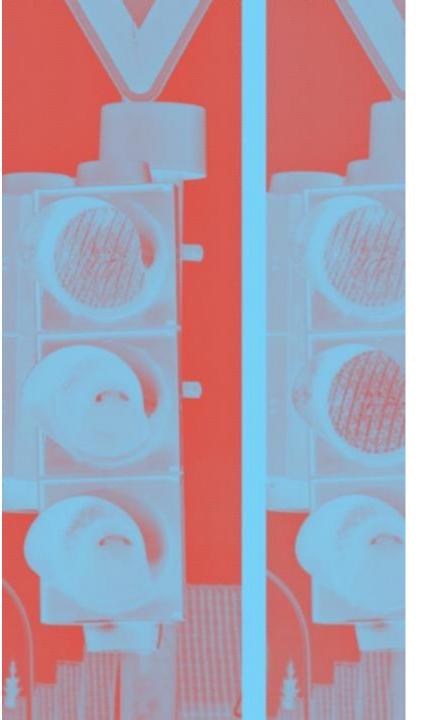
Competing interests can be financial or non-financial, professional, or personal. Competing interests can arise in relationship to an organization or another person.





How to check for competing interests

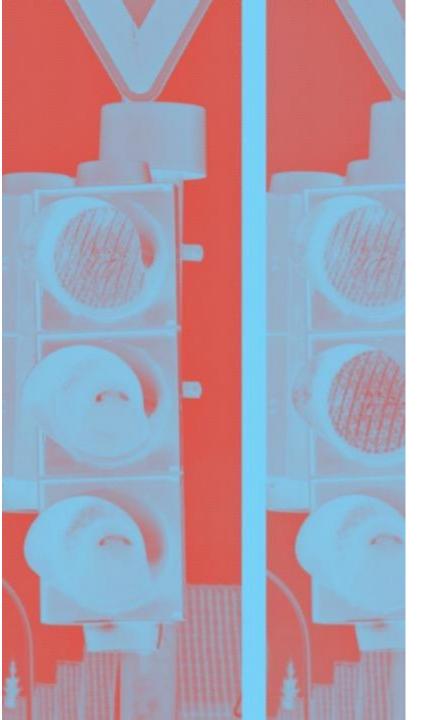
- Could you profit or be negatively impacted financially by the submitted research?
- Do you have a personal relationship with the authors?
- Are you and the authors rivals or competitors?
- Have you recently worked at the same institution or organization as the authors?
- Have you or are you currently collaborating with the authors?
- Have you recently published with the authors?
- Have you recently held grants with the authors?



If you're not sure...

Ask the journal office



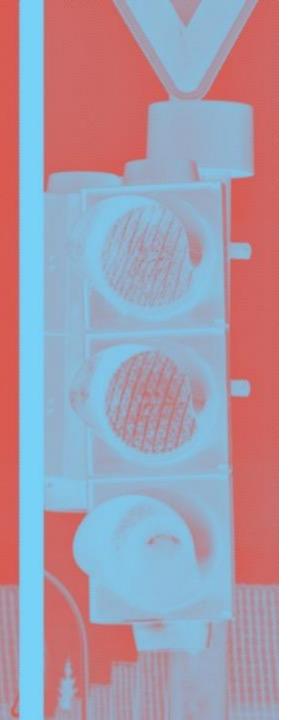


If you decline the invitation...

Let the editor know ASAP

Suggest an alternative reviewer name





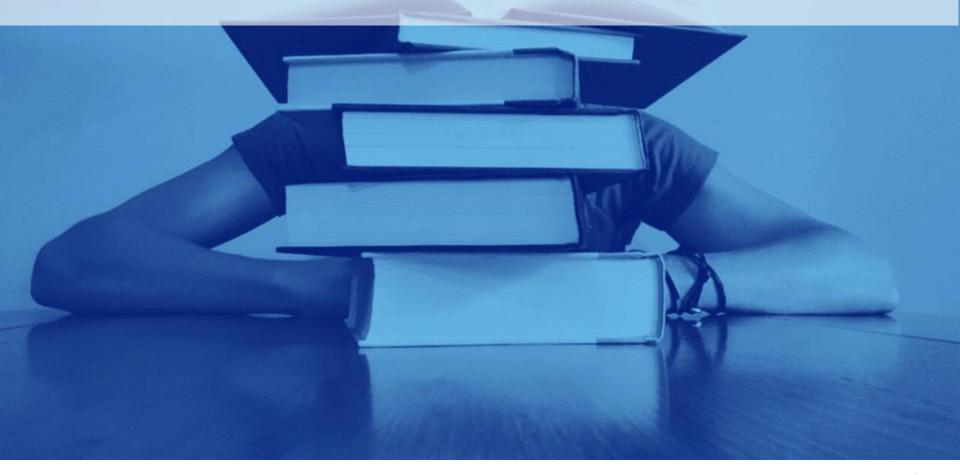
Activity: Check the Journal Guidelines

What does the journal look for in articles it publishes?

What does the journal want from you?

10:00

Reading the manuscript







First reading

- What is the main research question?
- How does the study
 relate to the published
 literature on the topic?
- What are the key findings of the study?





Second reading

Abstract and introduction

Figures and tables

Methods

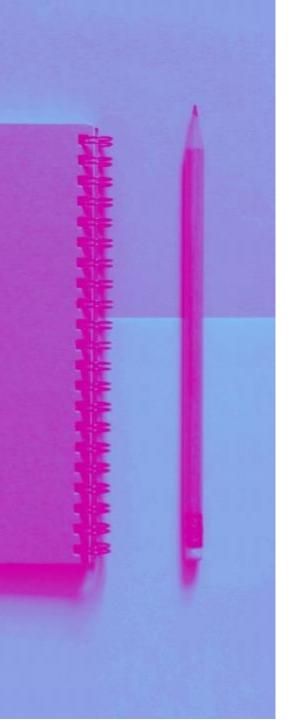
Results, discussion,

conclusions



Writing the reviewer report



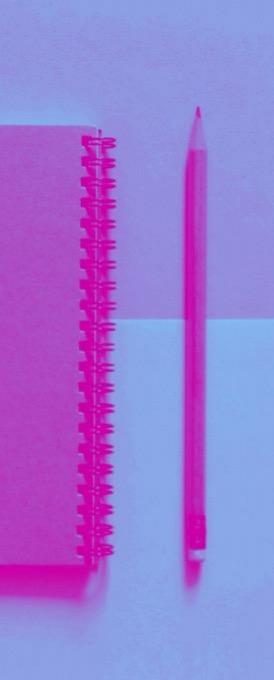


Activity: What makes good feedback?

What they wrote...

How they wrote it...

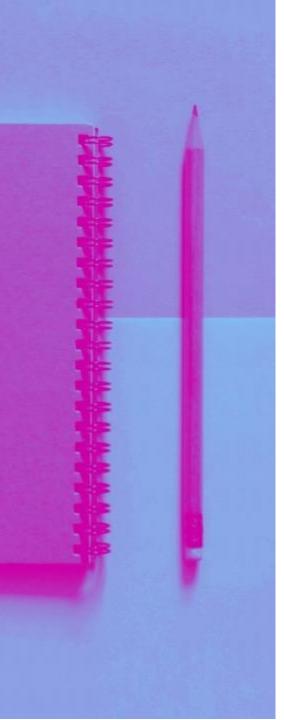
05:00



What to write...

- Use examples and evidence to back up your statements
- Talk about what you liked too
- Don't talk about yourself and your research
- Don't focus on small things like typos
- the scope of the study in front of you



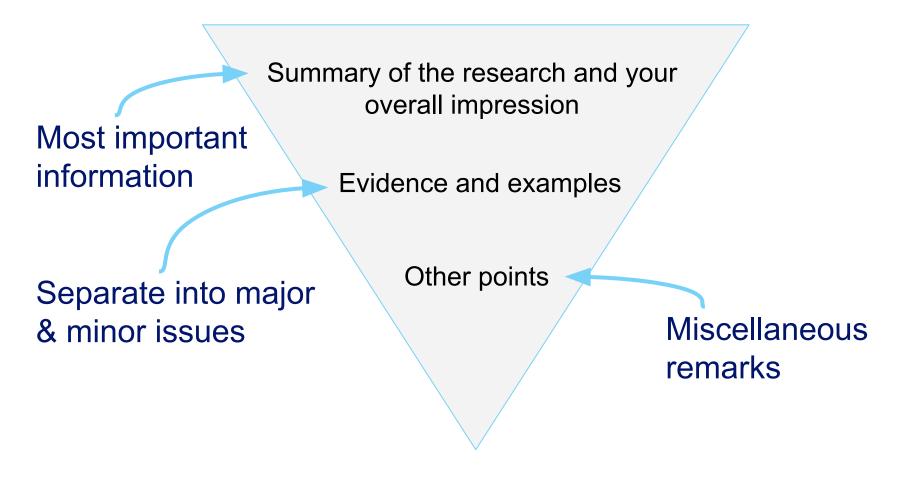


How to write it...

- Be professional and respectful
- Be clear and concise
- Structure your points so that they are easy to follow
- Give page numbers, etc.
- Write about the manuscript, and not the authors
- Keep in mind the author's perspective



Reviewer report outline







Evidence and Examples

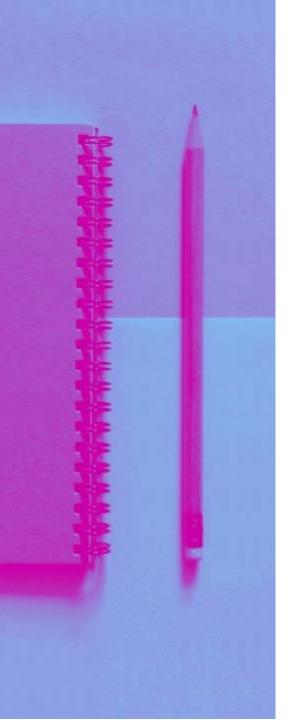
Major

- Must be addressed for the manuscript to proceed further
- Does not include major additions or required experiments that would fall outside of or expand on the scope of the present study

Minor

 Important to address in order to improve the manuscript, but may not affect the overall conclusions

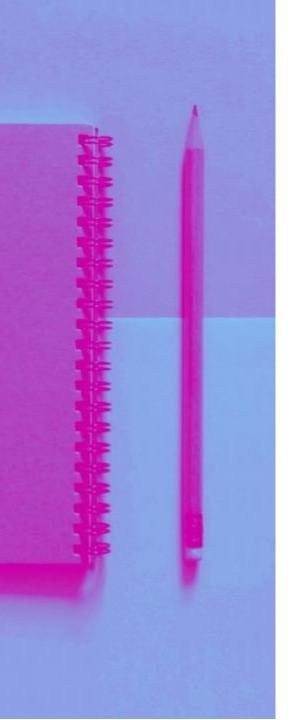




Activity: Review the feedback

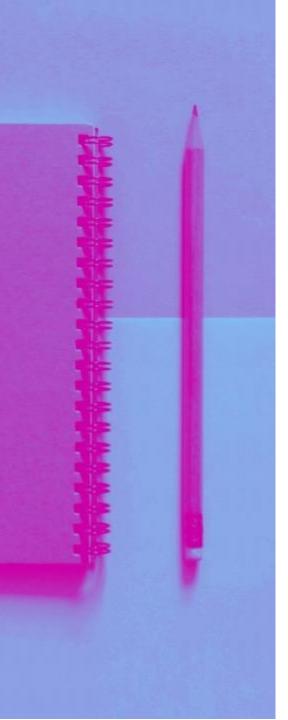
See published review from [insert journal and link]





Activity: Review the feedback

10:00



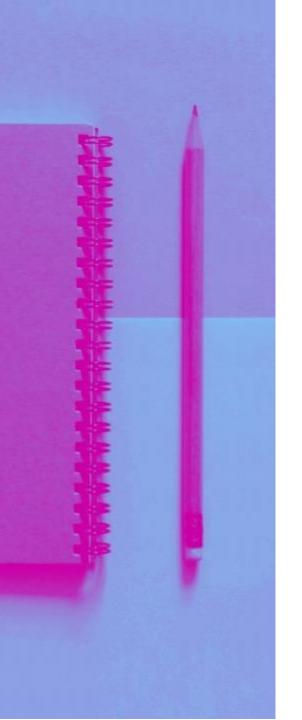
Activity: Rewrite the feedback

The authors appear to have no idea what they are talking about. I don't think they have read any of the literature on this topic.

The writing is so bad, it is practically unreadable. I could barely bring myself to finish it.

It's obvious that this type of experiment should have been included. I have no idea why the authors didn't use it. This is a big mistake.





Activity: Rewrite the feedback

10:00



The most important things...

Know your role

Remember your goals

Be confident

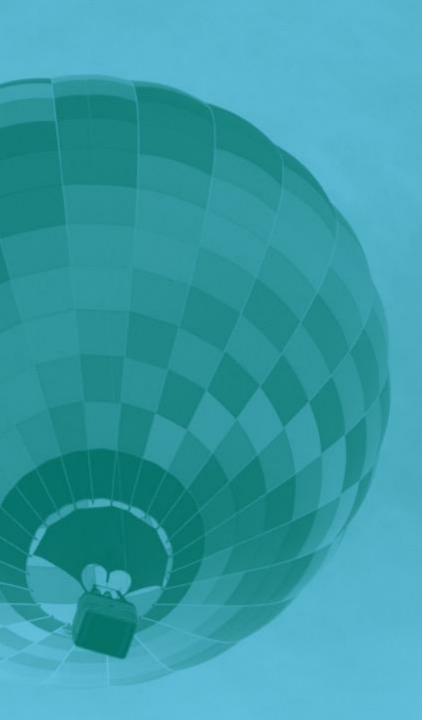


Professional development

Getting ready and recognized



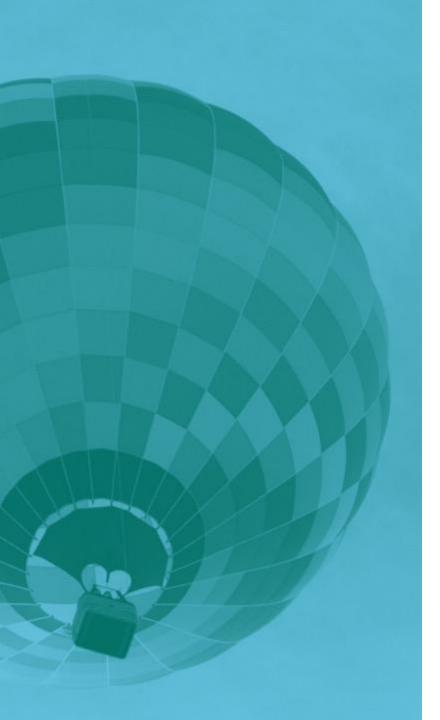




Getting ready to review

- Get your research out there
- Work with a mentor
- Keep up with the research in your field
- Start or join a journal club
- Make sure your profiles are up to date and your email address is easy to find
- Comment on published articles
- Participate in discussions in social media
- Do it well the first time so you'll be asked again





Getting recognized for your work

<u>Publons</u>

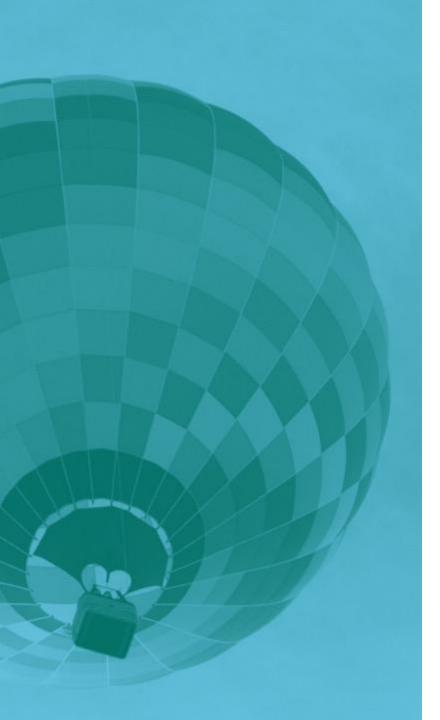
ORCID

PREreview

Review Commons

Peerage of Science

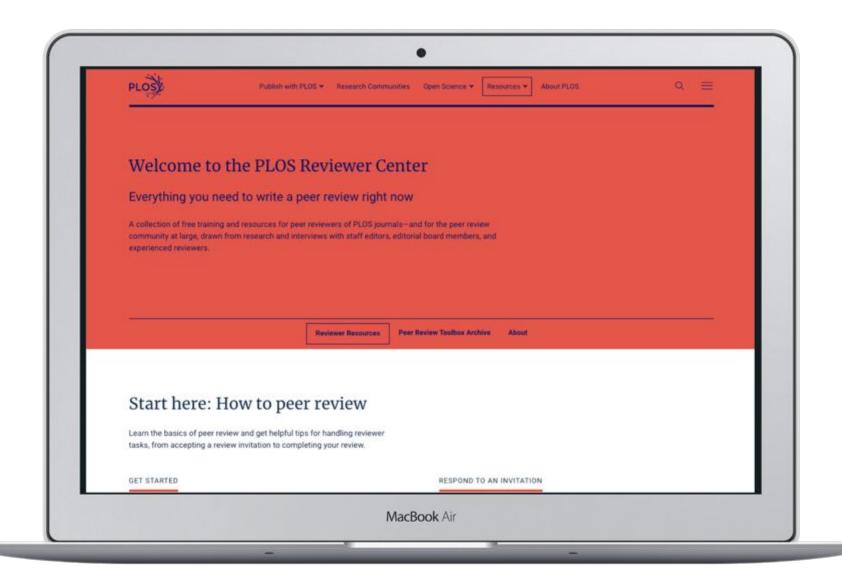




Activity: Action plan

- Look at list of action steps in packet
- Check off what you've done already
- Circle what you want to do next and indicate a possible timeframe
- Write in anything that's important to you but not on the list
- Cross off anything that's not relevant
- Share plan with partner





https://plos.org/resources/for-reviewers/



Peer Review Toolbox



The PLOS Peer Review Toolbox is your source for peer review best practice and practical tips to build your scientific skillset. Delivered to your inbox every two weeks, each issue is a new addition to your personal store of peer review know-how. Sign up today.

https://plos.io/PeerReviewToolbox



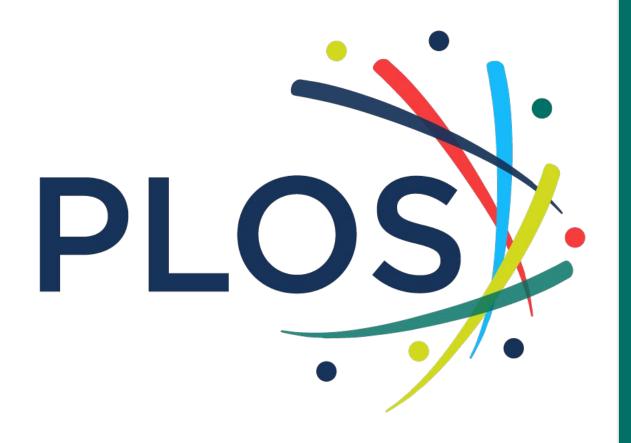
Objective

How confident do you feel now about reviewing?

Did you get what you wanted from this workshop?

Tell us what else can we do to help!





Thank you

plos.org