

## Journal Peer review fundamentals

### Course organizers

**Matilda Chan, MD, PhD**, University of California-San Francisco

### Course description

Peer review is a critical component to the process of reporting research and reviewing manuscripts is an important skill and service to the scientific community. However, navigating the art of peer review can be a daunting process, considering the scarcity of formal, in-person training opportunities within the realm of vision research. This course aims to bridge this crucial gap, guided by the expertise of Editors-In-Chief from prestigious vision science journals (*American Journal of Ophthalmology*, *Investigative Ophthalmology & Visual Science*, *JAMA Ophthalmology*, *Ophthalmology*, *Ophthalmology Science*, *Optometry and Vision Science*, and *Translational Vision Science & Technology*). Through a blend of didactic instruction and engaging roundtable discussions, this course will unveil the nuances of effective peer review.

### Learning objectives

Attendees will leave this session with the ability to:

- Describe the journal peer-review process.
- Identify an effective approach to reviewing a manuscript.
- Write a review that assists both the authors and the journal editors.

### Presentations

Presenters and presentations may change.

<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
<b>8-8:15am</b>	Welcome and overview of the Peer-Review Process	<b>Matilda Chan, PhD and Michael Chiang, MD</b>
<b>8:15-8:30</b>	Role of Journal Editorial Boards in the Peer Review Process	<b>Neil Bressler, MD (10 min) + Editors-In-Chief (EIC) panel discussion (5 min)</b>
<b>8:30-8:45</b>	Overview of the Peer-Review Process	<b>Emily Chew, MD (10 min) + EIC panel discussion (5 min)</b>
<b>8:45-9:00</b>	Considerations for deciding to accept or decline a manuscript review invitation	<b>Joseph Carroll, PhD (10 min) + EIC panel discussion (5 min)</b>
<b>9:00-9:15</b>	Break	
<b>9:15-9:45</b>	Overview of how to approach the manuscript	<b>Russ Van Gelder, MD, PhD &amp; Roy Chuck, MD, PhD (20 min) + Editors-In-Chief (EIC) panel discussion (10 min)</b>
<b>9:45-10:15</b>	Components of a review	<b>Michael Twa, OD, PhD &amp; Richard Parrish, MD (20 min) + EIC panel discussion (10 min)</b>
<b>10:15-10:30</b>	Break	
<b>10:30-11:15</b>	Interactive session – Real life reviews: <ul style="list-style-type: none"> <li>- Examples of real reviews will be presented and will be discussed by panel and audience</li> <li>- Confidentiality issues, including dangers of uploading reviews to Chatbots vs asking colleagues to assist with review</li> </ul>	<b>4 EICs + other editors</b> <b>EICs:</b> <ul style="list-style-type: none"> <li>• Russ Van Gelder, MD, PhD</li> <li>• Roy Chuck, MD, PhD</li> <li>• Michael Twa, OD, PhD</li> <li>• Richard Parrish, MD</li> </ul>

<p><b>11:15-12:00</b></p>	<p>Interactive session - Roundtable Discussion:</p> <ul style="list-style-type: none"> <li>- Challenges of the peer-review – personal experiences</li> <li>- Author conflicts of interest – disclosure</li> <li>- Industry-sponsored studies</li> <li>- Insufficient knowledge of statistical analyses</li> <li>- Publication of peer review (example ELife)</li> <li>- Resources: <ul style="list-style-type: none"> <li>References on peer review process</li> <li>AMA Manual of Style</li> <li>Peer Review Congresses</li> </ul> </li> </ul>	<p><b>4 EICs + other editors</b></p> <p><b>EICs:</b></p> <ul style="list-style-type: none"> <li>• Neil Bressler, MD</li> <li>• Emily Chew, MD</li> <li>• Joseph Carroll, PhD</li> <li>• Russ Van Gelder, MD, PhD</li> </ul>
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**Editors-In-Chief (EICs) of vision science journals – Lecturers + Interactive sessions**

- Michael Chiang, MD (NIH/NEI)
- Richard Parrish, MD (American Journal of Ophthalmology)
- Joseph Carroll, PhD (Investigative Ophthalmology & Visual Science)
- Neil Bressler, MD (JAMA Ophthalmology)
- Russ Van Gelder, MD, PhD (Ophthalmology)
- Emily Chew, MD (Ophthalmology Science)
- Michael Twa, OD, PhD (Optometry and Vision Science)
- Roy Chuck, MD, PhD (Translational Vision Science & Technology)

**Associate/Other Editors – Interactive sessions**

- Mabelle Pardue, PhD (Investigative Ophthalmology & Visual Science)
- Laura Downie, BOptom, PhD (Ophthalmology, Optometry and Vision Science)
- Aaron Lee, MD, MSCI (TVST, Ophthalmology Science, American Journal of Ophthalmology)
- Tien Yin Wong, MBBS, MMED, MPH, PhD (Ophthalmology, JAMA Ophthalmology)
- Matilda Chan, MD, PhD (Ophthalmology Science)