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.
<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>8-8:15am</td>
<td>Welcome and overview of the Peer-Review Process</td>
<td>Matilda Chan, PhD and Michael Chiang, MD</td>
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<td>8:15-8:30</td>
<td>Role of Journal Editorial Boards in the Peer Review Process</td>
<td>Neil Bressler, MD (10 min) + Editors-In-Chief (EIC) panel discussion (5 min)</td>
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<td>8:30-8:45</td>
<td>Overview of the Peer-Review Process</td>
<td>Emily Chew, MD (10 min) + EIC panel discussion (5 min)</td>
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<td>8:45-9:00</td>
<td>Considerations for deciding to accept or decline a manuscript review invitation</td>
<td>Joseph Carroll, PhD (10 min) + EIC panel discussion (5 min)</td>
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<td>9:00-9:15</td>
<td>Break</td>
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<td>9:15-9:45</td>
<td>Overview of how to approach the manuscript</td>
<td>Russ Van Gelder, MD, PhD &amp; Roy Chuck, MD, PhD (20 min) + Editors-In-Chief (EIC) panel discussion (10 min)</td>
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<td>9:45-10:15</td>
<td>Components of a review</td>
<td>Michael Twa, OD, PhD &amp; Richard Parrish, MD (20 min) + EIC panel discussion (10 min)</td>
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<td>10:15-10:30</td>
<td>Break</td>
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<td>10:30-11:15</td>
<td>Interactive session – Real life reviews:</td>
<td>4 EICs + other editors</td>
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<td>- Examples of real reviews will be presented and will be discussed by panel and audience</td>
<td>EICs:</td>
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<td>- Confidentiality issues, including dangers of uploading reviews to Chatbots vs asking colleagues to assist with review</td>
<td>- Russ Van Gelder, MD, PhD</td>
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<td>- Roy Chuck, MD, PhD</td>
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<td>- Michael Twa, OD, PhD</td>
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<td>- Richard Parrish, MD</td>
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Interactive session - Roundtable Discussion:
- Challenges of the peer-review – personal experiences
- Author conflicts of interest – disclosure
- Industry-sponsored studies
- Insufficient knowledge of statistical analyses
- Publication of peer review (example ELife)
- Resources:
  - References on peer review process
  - AMA Manual of Style
  - Peer Review Congresses

11:15-12:00

4 EICs + other editors
EICs:
- Neil Bressler, MD
- Emily Chew, MD
- Joseph Carroll, PhD
- Russ Van Gelder, MD, PhD

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

- Machelle 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)