Peer Review Innovations
STM, April 2019

• John Sack, HighWire
• Jennifer Regala, Am Society of Plant Biologists
• Brigitte Shull, Cambridge University Press
• Susan King, Rockefeller University Press
• John Inglis, Cold Spring Harbor Laboratory Press
Agenda

- John Sack, HighWire
  *The recent history of peer review*
- Jennifer Regala, Am Soc Plant Biologists
  *Open peer review at ASPB*
- Brigitte Shull, Cambridge University Press
  *Shared peer review infrastructure*
- Susan King, Rockefeller University Press
  *Cross-publisher manuscript & peer review transfer*
- John Inglis, Cold Spring Harbor Laboratory Press
  *Shifting peer review in time and location*

*Plus … Q&A*
Peer Review – the recent past and near future /1

• What was once the future, may now be ‘best practice’
  • Testing forms of review became new choices
  • Trial registrations took hold quickly
  • Data sharing, not so quickly
  • ‘Technical’ improvements integrated quickly with online workflow

• Studies that were once important, and those that are now important
  • Peer review process studies
  • Bias, its causes and effects
  • Role of preprints, post publication metrics, online commenting
  • Shift in gender of presenters
Important studies, but hard to do well
  • Threats to scientific publication and to science itself
  • Problem of reviewer fatigue

Studies gaining steam
  • Approaches to reproducibility, open science, collaboration

Studies on the horizon
  • Value of transfer/cascade
  • AI assistance, and AI biases
  • Publication based on “objective standards”
Peer Review – the recent past and near future /3

• The big problems to address
  • Reviewer fatigue
  • Quality control, and tools for it
  • Training, incentives rewards for peer review
  • Bias

Much of this is covered in an article from early 2018 on the PRC: "Three Decades of Peer Review Congresses" by Rennie and Flanagin


https://jamanetwork.com/journals/jama/fullarticle/2670234
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