# 02-Preprints

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## 1 Open Science Initiatives

#### 1.0.1 Preprints

- Address open access issues
- Accellerate scientific progress
- Reduce file drawer
- Reveal differences between original manuscript and final accepted version

#### 1.0.2 Preregistration

- Preregistration separates hypothesis-generating (exploratory) from hypothesis-testing (confirmatory) research
- Increases transparancy in methodological decision making
- Decreases selective reporting

#### 1.0.3 Registered Reports

- Prevent outcome of study as a means to reject a study
- Prevent researchers from selectively reporting results

# 2 Preprints

- Preprints are scholarly works posted online before they are accepted for publication
  - Often they are submitted before peer review
  - Can be submitted at any time before final acceptance

## 3 Preprints

### 3.1 Benefits of preprints

- Quality check of work before peer review
- Accelerate pace of science by sharing findings
  - It can take years to publish a paper
  - Students and Collegues can be up to speed with current work

- Open access
- No fees
- No predatory preprint servers
- Nobody profiting off your hard work
- Reduces file drawer problem
- Publications rejected because of journal/editorial agendas still see light of day

#### 3.2 Drawbacks of Preprints

- Extra work
- Not fully accepted by scientific community
- Some journals will not publish papers that have been posted on web
- Some journals will not accept citations of preprints
  - e.g. Trends in Cognitive Sciences
- Fear that many poor quality studies will flood the fields
  - Some evidence for this
- Fear of being scooped
  - Preprints have DOI's so there is recourse
- Currently a preprint will **NOT** necessarily help you get a:
  - PhD
  - Job
  - Promotion
  - Raise
  - It is up to us to change this

## 4 Preprint workflow

- 1. Choose a preprint service
- 2. Get permission from all authors to share the preprint
- 3. Prepare your preprint file
- 4. Prepare supplemental materials
- 5. Choose disciplines
- 6. Decide how you want to license your preprint
- 7. Write the abstract
- 8. Determine the authorship order
- From: http://help.osf.io/m/preprints/l/691805-how-to-prepare-your-preprint

#### 4.1 Some Preprint Sercives

- OSF Preprints
- PsyArxiv
- bioRxiv
- MediArXiv
- MetaArXiv
- PeerJ
- Preprints.org
- PsyArXiv
- SocArXiv
- Mac Sphere

### 4.1.1 Good news! All of these servers are indexed by Google Scholar

### 5 Author permission

- You may have to teach your co-authors about preprints.
- Make sure you have written permission to submit a preprint from all of your co-authors.

#### 5.1 Preparing a preprint

- A preprint is just a regular manuscript, so write your manuscript the way you would normally
- What is nice is that you don't need to adhere to a journal's formatting rules
  - You may want to prepare it for journal submission
    - \* You could submit the preprint at the same time as submitting it to a journal
    - \* You could submit the preprint before submitting it to a journal
- Prepare your supplimentary materials also
  - In open science, we are encouraged to share:
    - \* Stimuli
    - \* Experiment code
    - \* Data
    - \* Full analysis and code

- \* You can even have open manuscripts with version tracking to be transparant about editorial decisions
  - · This is on the extreme end
- The idea is to make the entire experiment replicable and transparant
  - \* This will be the focus of next session on the Reproducibility Revolution

# 6 Submitting a preprint

### 6.0.1 For this example we will use OSF preprints