Preprints – Looking Ahead

UKSG – Webinar

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Consultant’s Perspective

- **Academic librarian**
  - Mission – connect readers and content

- **Sales**
  - Value of products – understand points of pain
  - MBA – framework for drivers in an ecosystem

- **Consultant**
  - All stakeholders in scholarly content: librarians, societies, publishers, vendors, technology
The Stars Are Aligning for Preprints

https://scholarlykitchen.sspnet.org/2017/04/18/stars-aligning-preprints/
Crossref Announces DOIs for Preprints

Preprints are go at Crossref!

Rachael Lammey – 2016 November 02
In Persistence, Preprints

Our members asked for the flexibility to register content at different points in the publishing lifecycle, so we extended our infrastructure to support members who want to register preprints.

https://www.crossref.org/education/content-registration/recommendations-by-content-type/posted-content-includes-preprints/
### Evolution of Preprints – a Timeline

<table>
<thead>
<tr>
<th>Year</th>
<th>Platform(s)</th>
</tr>
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<tbody>
<tr>
<td>1990</td>
<td>arXiv (physics)</td>
</tr>
<tr>
<td></td>
<td>SSRN (social sciences)</td>
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<tr>
<td>2000</td>
<td>&lt;&lt;Nature Precedings, PeerJ Preprints &gt;&gt;</td>
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<tr>
<td>2010</td>
<td>bioRxiv (biology) medRxiv</td>
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<tr>
<td>2020</td>
<td>Center for Open Science (24+)</td>
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<td></td>
<td>ChemRxiv (chemistry)</td>
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<td>TechRxiv (technology)</td>
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<td></td>
<td>SciELO</td>
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<td>&gt; 2030</td>
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Drivers

▪ Feedback on the authors’ work
▪ Make results available quickly
▪ Comply with funder requirements

Benefits

▪ Early & rapid dissemination
▪ Free access to the content
▪ Gap: null findings, preliminary results
▪ Authors can assert priority
Diverse Ecosystem

- Large disciplines
  - arXiv – physics – Cornell University
  - ChemRxiv - 5 societies (US / UK / Germany / China / Japan)
  - bioRxiv / medRxiv - Cold Spring Harbor Press (funding CZI)
  - TechRxiv – IEEE

- Platform – Center for Open Science (specialized)
- Publishers - Elsevier – SSRN, Cambridge Open Engage
- Geographic – ChinaXiv, SciELO Preprints (Latin America)
PrePrints – Science in Real Time

- Responsibilities and business models
- Involvement of commercial players vs community ownership
- Evidence of advantages and disadvantages
- Pathways to awareness raising
- Approaches to training and support

https://www.knowledge-exchange.info/event/preprints
Improving Infrastructure & Processes

- Metadata for indexing & discovery
- Version control & linking to published version
- Review events and comments
- Methods to encourage data availability
- Screening submissions at scale
- Shared expectations for platforms
- Definitions of withdrawal and removal
- Engaging stakeholders to support adoption
- Sustainable business models, archiving, preservation
Metadata Suggestions

- Identify publication stage – posted vs published
- Link related records – preprint, updated, version of record
- Label versions – track revision numbers
- Use author identifiers and their affiliation

Objective – increase trust in and discoverability of preprints.

https://www.scholcommlab.ca/2020/04/08/preprint-recommendations/
Born Digital - Universe of Research Content

2019

Society
Poster
Presentation
Webinar

Dissertation
Preprints
Version of Record
Data & Code

Visual Abstract
Social Media

Podcasts
Author Videos
Blogs

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