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3<sup>rd</sup> OpenAIRE Open Science Train the Trainer Bootcamp May 22-26, 2023

# **Emerging trends in Open Access publishing**

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#OpenAIRE\_OSBootcamp 🔰 @op



## Outline

- Hot topics in the changing landscape
- New trends in traditional scholarly communication?
- Innovative approaches
- Training tips





Hot topics in the changing landscape of scholarly communication

- Is the current concept of scholarly articles outdated?
- Is the current concept of scholarly journals outdated?
- The future of peer review?
- Are we using the full potential of the digital environment?





# Bibliodiversity

"cultural diversity applied to the world of books"

preserving diversity in scholarly communication greater diversity of products (books, scripts, eBooks, apps, and oral literature) made available to readers scholarly communication as an ecosystem resting on:

- multilingualism
- open and shared infrastructures and services
- the diversity of business models in OA publishing
- quality-based research assessment.

Shearer, Kathleen, Chan, Leslie, Kuchma, Iryna, & Mounier, Pierre. (2020). Fostering Bibliodiversity in Scholarly Communications: A Call for Action. Zenodo. <u>https://doi.org/10.5281/zenodo.3752923</u>



Fostering Bibliodiversity in Scholarly Communications – A Call for Action!

## Today, my colleagues and I are issuing a "Call for Action!"



Confederation of Open Access Repositories

> We are calling on the community to make concerted efforts to develop strong, community-governed infrastructures that support diversity in scholarly communications (referred to as bibliodiversity).

> Diversity is an essential characteristic of an optimal scholarly communications system. Diversity in services and platforms, funding mechanisms, and evaluation measures will allow the research communications to accommodate the different

workflows, languages, publication outputs, and research topics that support the needs and epistemic pluralism of different research communities. In addition, diversity **Concept and planning** 

Explore and organize

Traditional scholarly communication

Impact and engagement

**Research lifecycle** 

**Collect and analyze** 

Outputs and publications • preprints • data

# Diamond / Platinum / Non-APC / No-fee

- An old concept revisited in a new light
- Authors, institutions, or funders do not pay an Open Access Fee and readers does not pay to read.
- Diversity of no-fee Open Access Publishing Models (collaborative funding, community/voluntary basis, grants, endowments, library funding, institutional funding)
- More common in some parts of the world
- Sustainability as a challenge



## Diamond OA is a more common model is some parts of the world



DOAJ - OA diamond journals (n=11,064)

Source : Bosman, Jeroen, Frantsvåg, Jan Erik, Kramer, Bianca, Langlais, Pierre-Carl, & Proudman, Vanessa. (2021). OA Diamond Journals Study. Part 1: Findings. Zenodo. <u>https://doi.org/10.5281/zenodo.4558704</u> <u>Creative Commons Attribution 4.0 International</u>



### Gold and Diamond open access journals landscape: Dashboard (based on DOAJ data)

Source : 'Gold and Diamond Open Access Journals Landscape'. 2020. *Research Consulting* (blog). 22 September 2020. <u>https://www.research-consulting.com/an-interactive-look-at-the-gold-and-diamond-journals-landscape/</u>.



## Finding Diamond / Platinum / Non-APC / No-fee OA journals



## **OpenAIRE workshop on Cooperative and Non-APC models, 2019** (2020)



- Library publishing programmes
- Institutional support and third-party funding
- National collaborative funding and publishing
- International collaborative funding and publishing
- Collaborative publication support services

Aasheim, Jens H., Schirrwagen, Jochen, Kuchma, Iryna, Franck, Gwen, Hermans, Emilie, Rettberg, Najla, & Steiner, Tobias. (2020). D6.2 – Best Practice Guide for Co-Operative Models of Publishing. Zenodo. <u>https://doi.org/10.5281/zenodo.3701428</u>

# The OA Diamond Journals Study, 2021



Bosman, Jeroen, Frantsvåg, Jan Erik, Kramer, Bianca, Langlais, Pierre-Carl, & Proudman, Vanessa. (2021). OA Diamond Journals Study. Part 1: Findings. Zenodo. <u>https://doi.org/10.5281/zenodo.4558704</u>

Becerril, Arianna, Bosman, Jeroen, Bjørnshauge, Lars, Frantsvåg, Jan Erik, Kramer, Bianca, Langlais, Pierre-Carl, Mounier, Pierre, Proudman, Vanessa, Redhead, Claire, & Torny, Didier. (2021). OA Diamond Journals Study. Part 2: Recommendations. Zenodo. https://doi.org/10.5281/zenodo.4562790

- A large-scale study on Open Access journals across the world commissioned by <u>cOAlition S</u>
- Findings:
  - many relatively small journals serving diverse communities
  - on the road to full compliance with Plan S
  - A mix of scientific strengths and operational challenges
  - An economy that largely depends on volunteers, universities and government

### **Recommendations:**

- Streamline technical support
- Ensure compliance with Plan S
- Build capacity
- Increase effectiveness
- Sustain and invest in the future



# Action Plan for Diamond Open Access & Diamond Open Access Conference (2022)

Ancion, Zoé, Borrell-Damián, Lidia, Mounier, Pierre, Rooryck, Johan, & Saenen, Bregt. (2022). Action Plan for Diamond Open Access. Zenodo. https://doi.org/10.5281/zenodo.6282403

## Endorsement of Action Plan on Diamond Open Access

The <u>Incom Plan on Education Query Access</u> was inverted in March 2022 by a group of organisations who want to further improve the efficiency, quality standards, capaddy building, and sustanability of Damard Open Access. It Bousses on adjument and the building of common resources and arms to support the creation of an inclusive worklande community that is equipped with the tools to strengthen existing Diamond Open Access journals and platforms, and to incourse their additional provide and platforms.



Diamond OA conference was organized by Science Europe in September 2022. More details and presentations: <u>https://www.scienceeurope.org/events/</u> diamond-oa-conference/

Endorse the plan: https://surveys.scienceeurop e.org/index.php/241774



## **Projects**



<u>DIAMAS - Developing</u>
<u>Institutional Open Access</u>
<u>Publishing Models to Advance</u>
<u>Scholarly Communication</u>



<u>Creating a Robust Accessible</u>
<u>Federated Technology for Open</u>
<u>Access</u>



# Training focuses

- Explain publishing options and the diversity of no-fee publishing models
- Show how to find Diamond OA journals
- Dispel myths about the prevalence of the APCbased OA
- Be aware of the new developments in the area





# **Open Access books**

- Not a new topic but there are still many issues yet to be resolved (platforms, text formats, handling footnotes, parsing references and tracking citations, etc.)
- Diversity of business models
- Sustainability

## **Initiatives and projects**

- Open Access Books Network
- Business Models for Open Access Books
- Błaszczyńska et al. (2023). Collaborative models for OA book publishers (2.0). Zenodo. <u>https://doi.org/10.5281/zenodo.7780754</u>
- Project PALOMERA <u>Policy Alignment of Open Access Monographs in the</u> <u>European Research Area</u>



## **Training focuses**

- Explain publishing options and OA book publishing models
- Dispel myths about OA books
- Promote book publishing platforms such as <u>OAPEN</u> and discovery services, e.g. <u>DOAB</u>
- Be aware of the new developments in the area

**Resources:** Open Access Books Network

# OA MYTHBUSTERS

Do you know the facts about OA books?

## **Overlay journals**

"An overlay journal is an open access, quality-assured journal whose articles are held in one or more repositories. An overlay journal does not host the articles on the journal's website but links back to the relevant article in an open repository or preprint server."

COAR <u>https://www.coar-</u> repositories.org/overlayjournals/

<u>EPIsciences</u> (a platform hosting overlay journals)



#### EpiDEMES Home Nicolas Grenier-Boley ; Hussein Sabra - Meeting the challenges of teaching mathematics in higher education today Articles epidemes 9785 - epiDEMES, August 26, 2022, 112022 - https://doi.org/10.46298/epidemes-9785 Informations for Meeting the challenges of teaching mathematics in higher education today authors Authors: Nicolas Grenier-Boley ; Hussein Sabra Editorial Board Editorial to the first issue of EpiDEMES Among the research in Mathematics Education devoted to higher education, two types of initiativescan be distinguished; those promoting the development of research results and those promotingreflections on mathematics About the teaching. In both cases, mathematics educators and Mathematicsresearchers have played - sometimes jointly - a leading role. The journal creation of the journal EpiDEMES (Epijournal de Didactique et Epistémologie des Mathématiques pour l'EnseignementSupérieur in French) is positioned in the continuity of these efforts. Credits https://doi.org/10.46298/epidemes-9785 Source: oal:HAL hal-03720576v2 My Account Volume: 112022 Published on: August 26, 2022 Accepted on: July 15, 2022 Submitted on: July 13, 2022 Keywords: (MATH.MATH-HO(Mathematics (math)/History and Overview (math.HO).(SHS.EDU)Humanities and Social Sciences/Education. [MATH.MATH-GM]Mathematics [math]/General Mathematics [math.GM] Licence: Attribution-ShareAlike 4.0 International (CC BY-SA 4.0) Download this file Consult the article webpage

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Innovations in scholarly communication, <u>https://101innovations.wordpress.com/</u>

# Workflows

OpenAIRE

Bianca Kramer & Jeroen Bosman, 400+ Tools and innovations in scholarly communication (2015, updated in 2017)

Combinations of tools in hypothetical workflows: https://101innovations.wordpress.com/workflows/



# Workflow as a research output

### https://workflowhub.eu/

- "workflow describes a set of computational tasks and their relationships"
- "workflow management system or workflow engine is software in charge of executing and monitoring a workflow" (computational pipelines)
- "Registries are catalogues that can be queried manually or automatically to locate and obtain tools and workflows."

https://www.eosc-life.eu/toolsworkflows/





# Modular publishing

- Platforms open by default (even "pay-toclose")
- Modular publishing
- Diversity of outputs (abstract, analysis, research problem, hypothesis, data, method, interpretation, peer review, etc.)
- Focus on the process (all steps made transparent)
- Collaborative

## ResearchEquals

#### Creating nice tables in R Manuscript accepted for ResearchEquals Lightning Updated version after Talk @ Exploring the publication review of: R script potential of alternative Individual Patient Data publishing models (IISC Meta-analysis Type D workshop) 80 0 0 Creating nice tables in R -Making all research work An interactive research Bribery Games - A Metamind map visible dilemma using Twine Analysis 0 OL ALL-IN-META-BCG-ALL-IN-META-BCG-ALL-IN-META-RCG-ALL-IN-META-BCG-CORONA Newsletter 4 CORONA Newsletter 3 CORONA Newsletter 2 **CORONA Newsletter 1** 1 0 Precision of detecting URLs to open datasets Workshop 2, Leaving the Workshop 1, Leaving the identifying information (CSV) hosted on the Open Academy Academy Science Framework BRAR (BRA) JE 6 Leaving the Academy: A Objective characterization Probabilities of Charting the Constellation Participatory ( Research Appr Low-cost cellular reagents for biotech programming in a community lab setting 0 View authors Summary Cellular reagents could be prepared for polymerase to lower the cost of reagents for PCR-based workshops delivered as outreach out of community labs. Research in the methods for accomplishing such a feat would contribute to global efforts to better document the process of making enzymes used as biotech reagents at the small-scale. Furthermore, well-documented protocols would provide an opportunity for volunteers to participate in preparing the materials for PCR & Pizza. Ultimately this would serve to develop and highlight the capacity to create low-cost enzyme reagents within community labs.

Recent modules

## <u>Octopus</u>

## **Browse all publications**

View all publications  $\rightarrow$ 

View all authors &

### **Publication type**

Research Problem

Rationale / Hypothesis

Method

### Results

Analysis

Interpretation

Real World Application

Peer Review

## Latest publications

See the latest publications that have been uploaded to Octopus

How did the COVID-19 pandemic impact antibiotic prescribing and antim...

R. Elshenawy 💿, N. Umaru 💿, Z. Asla... Research Problem May 19, 2023

View this publication

Communication Management in Crises. The role of the media in strategi...

M. Otterpohl 💿

May 14, 2023

View this publication

Can we help people understand their personal likelihood of dying from...

A. Freeman 💿

**Research Problem** 

May 11, 2023

View this publication (0)

# **Training focuses**

- Explain how Open Science practices change scholarly communication
- Present various publishing options
- Compare the innovative approaches and platforms to the traditional publishing venues and practices
- Present tools







Image by vectorjuice on Freepik

# **Training tips**

- Don't forget that the purpose of scholarly publishing should be scholarly communication (and not profit).
- Highlight and explain the diversity of publishing models.
- Uncover misconceptions.
- Present use cases.
- High-quality materials are available. Use them in you training!
- The topic is huge. Try not to cover all in one session.
- Be informed and cover new developments in you training!





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