Webinar: Scholarly Communication & COVID-19: Closing the Loop for Effective Peer Review

Today’s Presenters & Chairs:

- Sarah Greaves @SarahGreaves18
- Daniela Sarderi @Neurosarda
- Susanna-Assunta Sansone @SusannaASansone
- Monica Granados @monsauce
- Peter McQuilton @Drosophilic
- Catriona MacCallum @catmacOA
- Claire Redhead @OASPA

#C19RapidReview
Working together to maximize the impact of research

#C19RapidReview
A cross-publisher initiative
Responding to the COVID-19 challenge: First steps

- Introduced a fast-track publication process for COVID-19 research.
- Maximized availability of submitted papers via preprint servers.
- Agreed to transfer manuscripts among publishers.
I see scientific publishing as a collaborative effort to make a transformative impact on society.
The #C19RapidReview Initiative

- 9 publishers and organizations across the scholarly publishing industry.
  - Signed up to statement of intent: preprints, DAS & open abstracts
- Endorsed by OASPA and SSRN.
- A common database of rapid peer reviewers - rapid reviewer pool proposed by PeerJ.
- Reviews are portable between publishers.
- Call on reviewers to identify and highlight important preprints.
- Call on authors to use preprint servers.
- Call on publishers to encourage preprints and open data.

Support peer reviewers and ensure the widest and quickest dissemination of COVID-related quality content.
An overwhelmingly positive response from the research community

Over 1,500 researchers have signed up as rapid reviewers. The response has been global, with academics from over 85 countries adding their names to the list.
However, zero papers transferred so far. What is stalling the process?

What more can we do?

Maximize use of peer reviewers on PREreview to provide comments on preprints.

And then determine if we can use those to flag papers to relevant editors and journals for formal peer review.

Enforce data sharing for any published C19 paper from within the group - rather than encourage.
What have we learned from this process so far?

Openness is a necessity.

Transparency adds value.

Community fosters common goals.
Looking ahead to the future

Let’s make open, rapid, and transparent collaboration in academic publishing the norm.
Important information and contacts


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UK – Fani Kelesidou, Hindawi ([fani.kelesidou@hindawi.com](mailto:fani.kelesidou@hindawi.com))
USA – Dan Morgan, PLOS ([dmorgan@plos.org](mailto:dmorgan@plos.org))

**Publishers Group contacts:**

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**OASPA contact:**

Claire Redhead, OASPA ([claire.redhead@oaspa.org](mailto:claire.redhead@oaspa.org))
Thank you

Connect with us on Twitter @Hindawi, @SarahGreaves18
or visit our website www.hindawi.com
A platform for the *rapid review* of outbreak-related preprints

Daniela Saderi, Ph.D. & Monica Granados, Ph.D.
PRReview Leadership Team

OASPA Webinar: Scholarly Communication & COVID-19
June 24, 2020
The content of this presentation can be found

[Insert URL]

This presentation can be copied, adapted and reused according to CC BY 4.0 licence.
COVID-19 preprints per week (up until 2020-06-14)

Source
- medRxiv
- SSRN
- Research Square
- arXiv
- RePEc
- bioRxiv
- ResearchGate
- Preprints.org
- JMIR
- OSF Preprints
- Authorea
- PsyArXiv (OSF)
- ChemRxiv
- SocArXiv (OSF)
- SciELO
- Figshare
- Zenodo
- WHO
- SAGE
- Other*

* ‘Other’ refers to preprint repositories containing <30 total relevant preprints. These include: AfricArXiv (OSF), AgriXiv (OSF), BioHackRxiv (OSF), EarthArXiv (OSF), EcoEvoRxiv (OSF), EdArXiv (OSF), engrXiv (OSF), Frenxiv (OSF), INA-Rxiv (OSF), IndiaRxiv (OSF), LawArXiv (OSF), MediArXiv (OSF), NutriXiv (OSF), ScienceOpen, SportRxiv (OSF), Techrxiv (IEEE).

Data collected and analysed by Dr. Nick Fraser (code available on this GitHub repository and Figshare).
Data visualization improvements by Bianca Kramer. @PREreview_ | @outbreaksci
What if we could mobilize the expertise and knowledge of the community by making it easier to review preprints?

outbreak science

PREreview

Open Research Fund

Wellcome

This funding supports researchers to develop and test innovative ways of making health research open, accessible and reusable.

@PREreview_ | @outbreaksci
Our priority is to make community rapid reviews useful to researchers in a process that is rewarding to them.

We want it for this process to be fully integrated into a transparent and equitable system of scholarly peer review.
<table>
<thead>
<tr>
<th>Title</th>
<th>Date</th>
<th>DOI</th>
<th>Reviews/Requests</th>
</tr>
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<tbody>
<tr>
<td>Hospital practice in COVID-19 times: Perceptions of the midwifery</td>
<td>Jun. 9, 2020</td>
<td>10.1101/2020.06.05.20094482</td>
<td>1 Review/1 Request</td>
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<tr>
<td>internship in Peru</td>
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<tr>
<td>The expediency of local modelling to aid national responses to</td>
<td>Jun. 2, 2020</td>
<td>10.1101/2020.05.27.20107656</td>
<td>1 Review/2 Requests</td>
</tr>
<tr>
<td>SARS-CoV-2.</td>
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<td>2019-novel Coronavirus</td>
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Login with ORCID iD
To log in to Outbreak Science Rapid PRereview you will need an ORCID ID.

Click below to sign in with your ORCID account, or create one if you don't have one.

User needs to agree to OSrPRE Code of Conduct.

Sign in with ORCID

@PRereview_ | @outbreaksci
Daniela Saderi

RAPID PREREVIEW IDENTIFIER
74dc14fa-3086-4333-8199-5e96d6c81f58

IDENTITY
Public

ORCID
0000-0002-8109-0367

MEMBER SINCE
Dec. 4, 2019

Activity

TOTAL NUMBER OF REQUESTS
1

TOTAL NUMBER OF REVIEWS
0

History

JAN. 24, 2020 REQUESTED FEEDBACK ON
Functional assessment of cell entry and receptor usage for lineage B β-coronaviruses, including 2019-nCoV
bioRxiv · 10.1101/2020.01.22.915668

0 Review 4 Requests
User needs to paste the DOI or the arXiv iD of the preprint.
The expedency of local modelling to aid national responses to SARS-CoV-2.

Jun. 2, 2020

Development and Evaluation of A CRISPR-based Diagnostic For 2019-novel Coronavirus

Feb. 25, 2020
<table>
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<td>Feb. 25, 2020</td>
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</tbody>
</table>
Preprints with reviews or requests for reviews

TRENDING + RECENTLY REVIEWED RECENTLY REQUESTED

Hospital practice in COVID-19 times: Perceptions of the midwifery interns in Peru
Jun. 9, 2020
DOI: 10.1101/2020.06.05.20094482
0 Reviews
1 Request
Last requested 1 day ago

The expediency of local modelling to aid national responses to SARS-CoV-2.
Jun. 2, 2020
DOI: 10.1101/2020.05.27.20107656
1 Review
2 Requests
Last requested 16 hours ago

Development and Evaluation of A CRISPR-based Diagnostic For 2019-novel Coronavirus
Feb. 25, 2020
DOI: 10.1101/2020.02.22.20025460

INFECTION DISEASE SEARCH
COVID-19
Chikungunya
Cholera
Ebola
Hendra
HIV
Influenza
Lassa
Hospital practice in COVID-19 times: perceptions of the midwifery interns in Peru

Jessica Rojas-Silva 1, Valery Damacen-Oblitas 1, Diayan Castro-Gomez 1, Jennifer Rojas-Vega 1, John Barja-Ore 2, Randol Vila-Arevalo 2, Victor Moquillaza-Alcantara 3

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Randol Vila-Arevalo: https://orcid.org/0000-0003-4307-271X
Hospital practice in COVID-19 times: perceptions of the midwifery interns in Peru

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Hospital practice in COVID-19 times: perceptions of the

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Does the manuscript include new data? Yes ☑️
Are the data used in the manuscript available? If yes, please paste the link to the data in the box below. Yes ☑️

Links to the data used in the manuscript
Hospital practices in COVID-19: the perspectives of the patient

Jessica Rojas-Silva
Jennifer Rojas-Vega

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Possibility of Disinfection of SARS-CoV-2 (COVID-19) in Human Respiratory Tract by Controlled Ethanol Vapor Inhalation

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Professor in Physics at OIST Graduate University
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1919-1 Tancha, Onna-son, Kunigami-gun, Okinawa, Japan 904-0495

Viruses such as SARS-CoV-2 and Influenza are lipophilic, enveloped viruses, and are relatively easy to inactivate by exposure to alcohols. The envelope mainly consists of the lipid bilayer, taken from the host cells at assembly/budding stage of the viral life cycle. Therefore the constitution of the lipid bilayer should be common in all SARS, MERS and influenza viruses, even after mutations, and thus these closely-related viruses will be disinfected by exposure to ethanol with the same concentration. Existing experimental data indicate that an ethanol concentration of 30–40 v/v% is sufficient to inactivate Influenza-A viruses in solution[1,2,3].

The author suggests that it may be possible to use alcoholic beverages of 16–20 v/v% concentration for this disinfection process, such as Whisky (1:1 hot water dilution) or Japanese Sake, because they are readily available and safe (non-toxic). By inhaling the alcohol vapor at 50–60°C (122–140°F) through the nose for one or two minutes, it will condense on surfaces inside the respiratory tract; mainly in the nasal cavity. The alcohol concentration will be intensified to ~36 v/v% by this process, which is enough to disinfect the corona virus on the mucous membrane. In this situation, our respiratory tract essentially works as an alcohol distillation apparatus (a condenser). This method also provides more moisture into respiratory tract, and helps to clean the inside of the nasal cavity by stimulating blowing of the nose, and also makes the mucous escalator work actively so that the self-clearing mechanism in the trachea will remove viruses faster.

An alternative prompt method is also discussed. We use 40 v/v% whisky or similar alcohol, dripping on a gauze, inhale the vapor slowly at room temperature. This method works well for the front part of the nasal cavity. This is suitable for clinical workers, because they may need to use...
Public API documentation

GET /api/review/:id

Get a review by :id.

GET /api/request/:id

Get a request for review by :id.

GET /api/user/:id

Get a user by :id.

GET /api/role/:id

Get a role (persona) by :id.
Joining Community and Journal-organized peer review

Publisher

- Author(s) submits their ms to a journal for publication
  - Editor needs to decide if ms should undergo peer review
    - Community rapid reviews + editorial 1st read are positive
      - Ms sent out for journal-organized peer review
    - Community rapid reviews + editorial 1st read are negative
      - Ms is rejected

Community

- Author(s) posts the ms as a preprint on a server
  - Community rapid reviews on OSrPRE
Takeaways

- The COVID-19 pandemic has highlighted a long-standing need to accelerate research dissemination
- On Outbreak Science Rapid PREview researchers can *rapidly review* or request reviews of outbreak-related preprints
- Our goal is to enable scientists to provide constructive feedback to each other’s work in a process that is rewarding to them
- Rapid reviews by the research community can help speed up journal-organized peer review
CALL TO ACTION!!!

for scientists
to rapidly review
COVID-19 preprints
PREreview Advisory Committee

Samantha Hindle, Ph.D.
(Co-Founder, PREreview Leadership Team)

Naomi Penfold, Ph.D.
(Community Manager eLIFE)

Lenny Teytelman, Ph.D.
(Co-Founder and CEO, Protocols.io)

Georgia Bullen
(Executive Director, Simply Secure)

Kristen Ratan, Ph.D.
(Founder and Director, Stratos)

OSrPRE contributors

Michael Johansson, Ph.D. (Co-Founder, Director, Outbreak Science, OSrPRE Leadership)

Katrina Murphy (PREreview Project Manager)

Sebastien Ballesteros, Erik Wysocan, Josh King, Rae Gains, Harum Helmy (OSrPRE developers)

github.com/PREreview

outbreaksci.prereview.org

Twitter: @prereview_ @outbreaksci

Thank You!
Data sharing and stewardship, cross-publishers harmonization

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#C19RapidReview
@OASPA

FAIRsharing.org
contact@fairsharing.org
@FAIRsharing_org
Outline

• FAIRsharing overview
  • An informative and educational resource for publishers and other stakeholders

• FAIRsharing and the COVID-19 Rapid Review
  • Data requirements for preprints triage and publication of articles
  • Harmonization of data guidelines across publishers, and collaboration with Research Data Alliance and Force11 groups

@FAIRsharing_org
#C19RapidReview
Better data (policies), better science

Data policies (by journals, publishers & other organizations) must ensure that
• supporting evidences are routinely available in a transparent, trustworthy and persistent manner to support peer-review
• withstand reproducibility
• underpin new results and discoveries
• confidentiality of relevant data is protected

To be reused and shared, data must be

Findable Accessible Interoperable Reusable

A widely accepted set of principles to enhance the value of all digital resources

@FAIRsharing_org
#C19RapidReview
Curated **descriptions** and **knowledge graphs** to represent these resources and how these are interlinked
Guides **consumers** to *discover, select and use* these resources with confidence.

Helps **producers** to make their resources more *visible, more widely adopted and cited*. 

@FAIRsharing_org
#C19RapidReview
Rich descriptive metadata for resources

Open Science Framework

Abbreviation: OSF

General Information

The OSF supports the entire research lifecycle: planning, execution, reporting, archiving, and discovery. Features include: automated versioning, logging of all actions, collaboration support, free and unlimited file storage, registrations, and connections to other tools/services (ie. Dropbox, figshare, Amazon S3, Dataverse, GitHub). It is 100% free, opensource, and intended for use in all domain areas.

Homepage http://osf.io
Countries that developed this resource Worldwide
Created in 2011

Taxonomic range

Knowledge Domains

- All
- Cancel
- Data Storage
- Study Design

Subjects

- Life Science
- Psychology

User-defined Tags

- General Purpose
- C19RapidReview
Interlinking repositories and standards
Tracking adoption by journal data policies

FAIRsharing.org

Open Science Framework

Abbreviation: OSF

Related Standards

Reporting Guidelines
No guidelines defined

In the following recommendations:

Scientific Data

BioMed Central

GigaScience

PLOS

Gates Open Research

Taylor and Francis

eLife Recommended Repositories and Standards

How to cite this record FAIRsharing.org: OSF; Open Science Framework; DOI: https://doi.org/10.25504/FAIRsharing.g4z879; Last edited: Jan. 8, 2019, 1:21 p.m.; Last accessed: Oct 21 2019 8:26 p.m.

This record is maintained by asallans ORCID and sarabowman ORCID

Record updated: July 27, 2018, 8:31 a.m. by The FAIRsharing Team.

Datacite Repository
DataverseNL

@FAIRsharing_org
#C19RapidReview
Citable identifiers for records and maintainers


This record is maintained by asallans ORCID and sarabowman ORCID

Record updated: July 27, 2018, 8:31 a.m. by The FAIRsharing Team.
International Virtual Observatory Alliance (IVOA)

The Virtual Observatory (VO) is the vision that astronomical datasets and other resources should work as a seamless whole. Many projects and data centres worldwide are working towards this goal. The International Virtual Observatory Alliance (IVOA) is an organisation that debates and agrees the technical standards that are needed to make the VO possible. It also acts as a focus for VO aspirations, a framework for discussing and sharing VO ideas and technology, and body for promoting and publicising the VO. This collection lists the documents & standards agreed by IVOA.

This record is maintained by: cariset.
Record added: March 15, 2018, 12:56 p.m.
Record updated: Oct. 11, 2018, 9:57 a.m. by cariset.

Subjects
❖ Astrophysics And Astronomy

Knowledge Domains
❖ Metadata Standardization
❖ Data Standards

Working with communities in all disciplines to:

- **Accelerate** the **discovery, selection and use of** (meta)data **standards** and their use in **repositories**
- **Increase** their **visibility, reuse, adoption and citation**
FAIRsharing.org community

Adopters
Lighthouse stakeholders from our user base.

Activities
Guidance and tools we lead on or contribute to.

Governance
Our international Advisory Board and Team.

Researchers in academia, industry, government
Journal publishers or organizations with data policy
Learned societies, unions and associations
Developers and curators of resources
Research data facilitators, librarians, trainers
Funders and data policy makers

A flagship output of and a WG in:
RDA
RESEARCH DATA ALLIANCE

Recommended by funders, e.g.:

@FAIRsharing_org
#C19RapidReview
The COVID-19 RR initiative – Data WG

1. Assists the Community Reviewers in the preprint triage phase, and the Members with published articles by **defining common minimal requirements** to ensure access and reusability of the underlying data

2. Contribute to relevant and ongoing collaborations, which work to **harmonizing the data guidelines** across the participating publishers/journals
The COVID-19 RR initiative – Data WG

1. Assists the Community Reviewers in the *preprint triage phase*, and the Members with published articles by defining common minimal requirements to ensure access and reusability of the underlying data

   - The *plan* is for Community Reviewers to:
     - select relevant COVID preprint;
     - check for the presence of DAS;
     - check where datasets are made available: in repositories (ideal) or elsewhere (e.g. on a project/personal website)
     - if relevant, extend the checks to software, code and materials, etc.
The COVID-19 RR initiative – Data WG

1. Assists the Community Reviewers in the preprint triage phase, and the Members with published articles by defining common minimal requirements to ensure access and reusability of the underlying data

   - Current common policy by Members is to require a formal DAS and check for presence; “data available” on request is still an option

   - New options for discussion are:
     - Enforce a formal DAS that explicitly lists the repositories where the data are publicly available (subject to ethical considerations); data available on request will not be acceptable
     - Publisher checks data are in the repositories - and data is formally cited in the article (following the Joint Data Citation Principles)
2. Contribute to relevant and ongoing collaborations, which work to harmonizing the data guidelines across the participating publishers/journals:

2.1 Policy alignment, connected to the work of the RDA Journal Data Policy Standardization WG

2.2 Common criteria for repository selection, connected to the work of the RDA/Force11 FAIRsharing WG

Data Repository Selection: Criteria That Matter
Work in progress
https://osf.io/m2bce
Thank You to our Presenters & Chairs:

- Sarah Greaves @SarahGreaves18
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- Susanna- Assunta Sansone @SusannaASansone
- Monica Granados @monsauce
- Peter McQuilton @Drosophilic
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#C19RapidReview