



**innovative workflows and platforms
for research dissemination and discovery**

Dr Jo Havemann

July 2022

Website: access2perspectives.org

Open
Access



*Make your research output discoverable
and accessible
so that your results can unfold
societal impact and benefits.*





VALUES

Quality and integrity

Collective benefit

Equity and fairness

Diversity and inclusiveness



PRINCIPLES

Transparency, scrutiny, critique and reproducibility

Equality of opportunities

Responsibility, respect and accountability

Collaboration, participation and inclusion

Flexibility

Sustainability

Key pillars of open science



unesco

Key pillars of open science



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gold - OA via the journal publisher, often Article Processing Charges (APCs) apply

diamond/platinum OA - free of charge to publish and to read

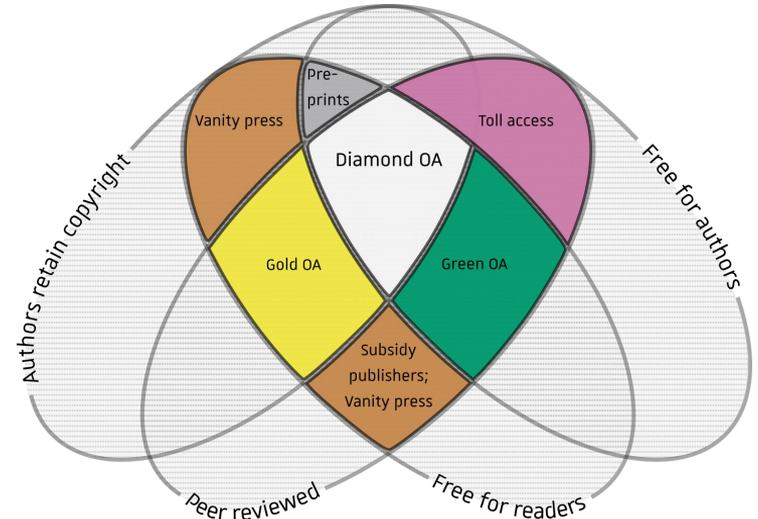
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black OA; unauthorized digital copying by large-scale copyright infringement (e.g. SciHub)



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Open
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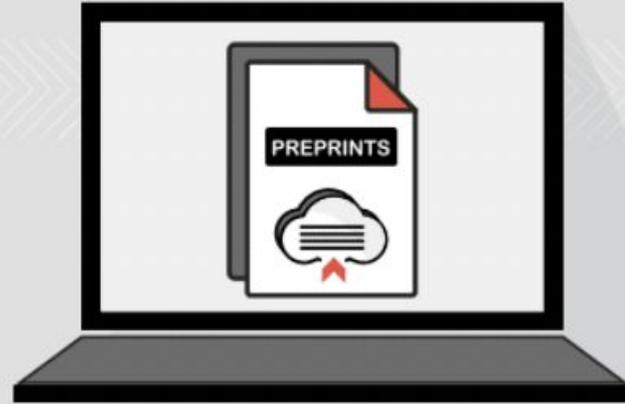


*Preprint repositories have evolved
to be an integral part of the
open scholarly publishing workflow.*

➤ Preprints

What are they?

A preprint is a **scientific manuscript** that is uploaded by the authors to a **public server**



<https://doi.org/10.5281/zenodo.5592318>

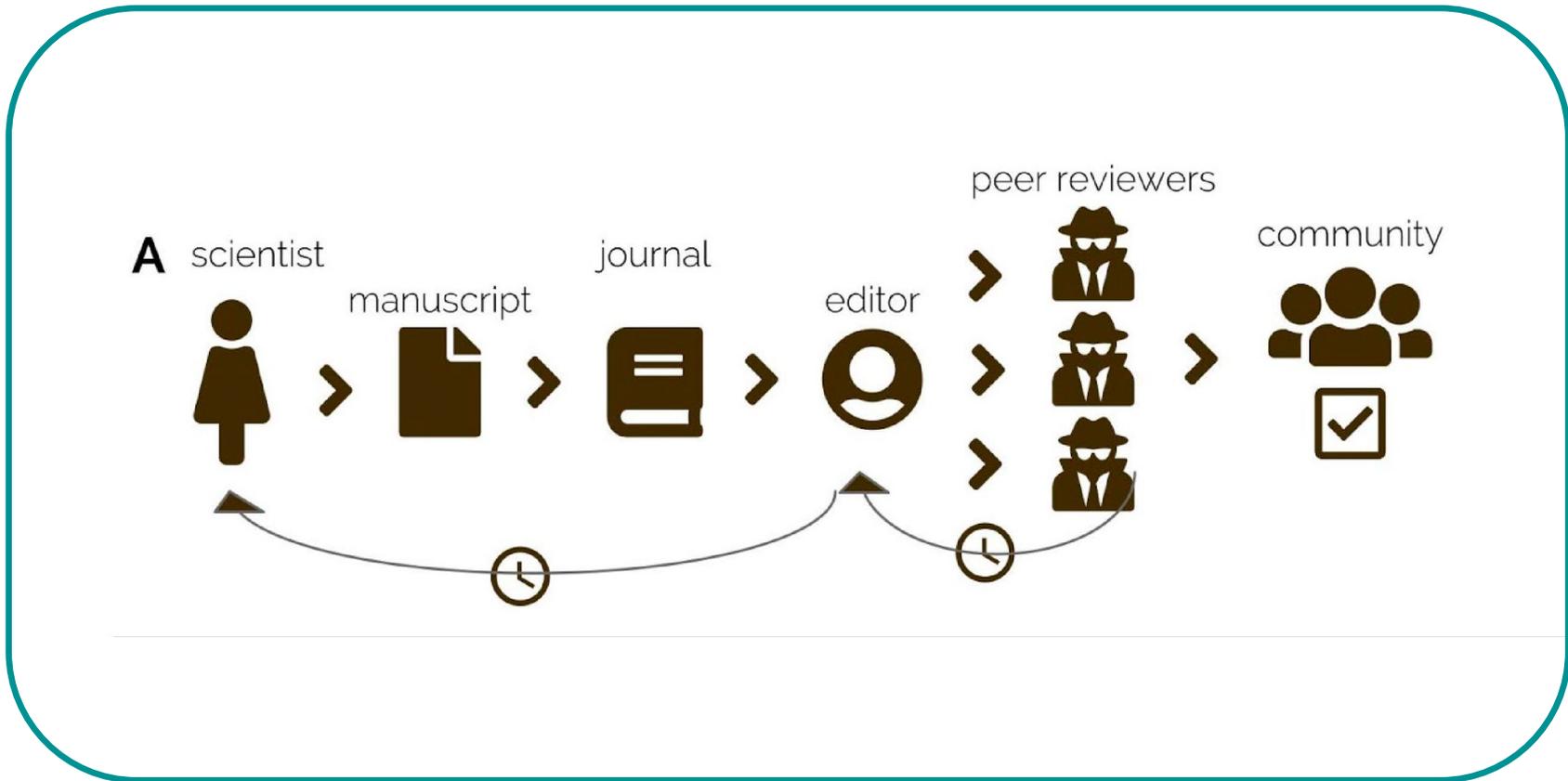


Figure 1. (A) Traditional peer review publishing workflow.

Publications **2019**, 7(2), 34;
<https://doi.org/10.3390/publications7020034>

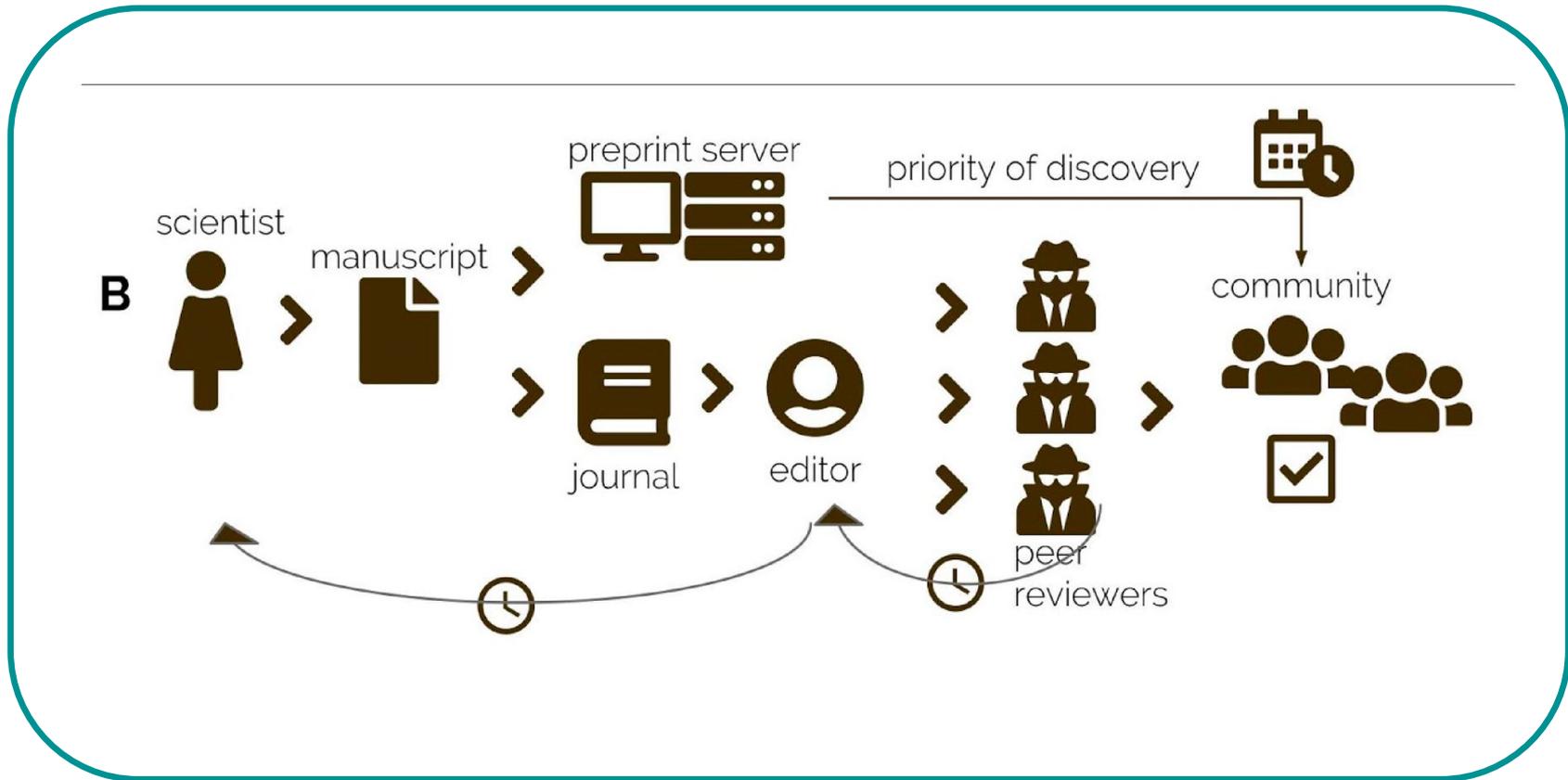


Figure 1. (A) Traditional peer review publishing workflow. **(B)** Preprint submission establishing priority of discovery.

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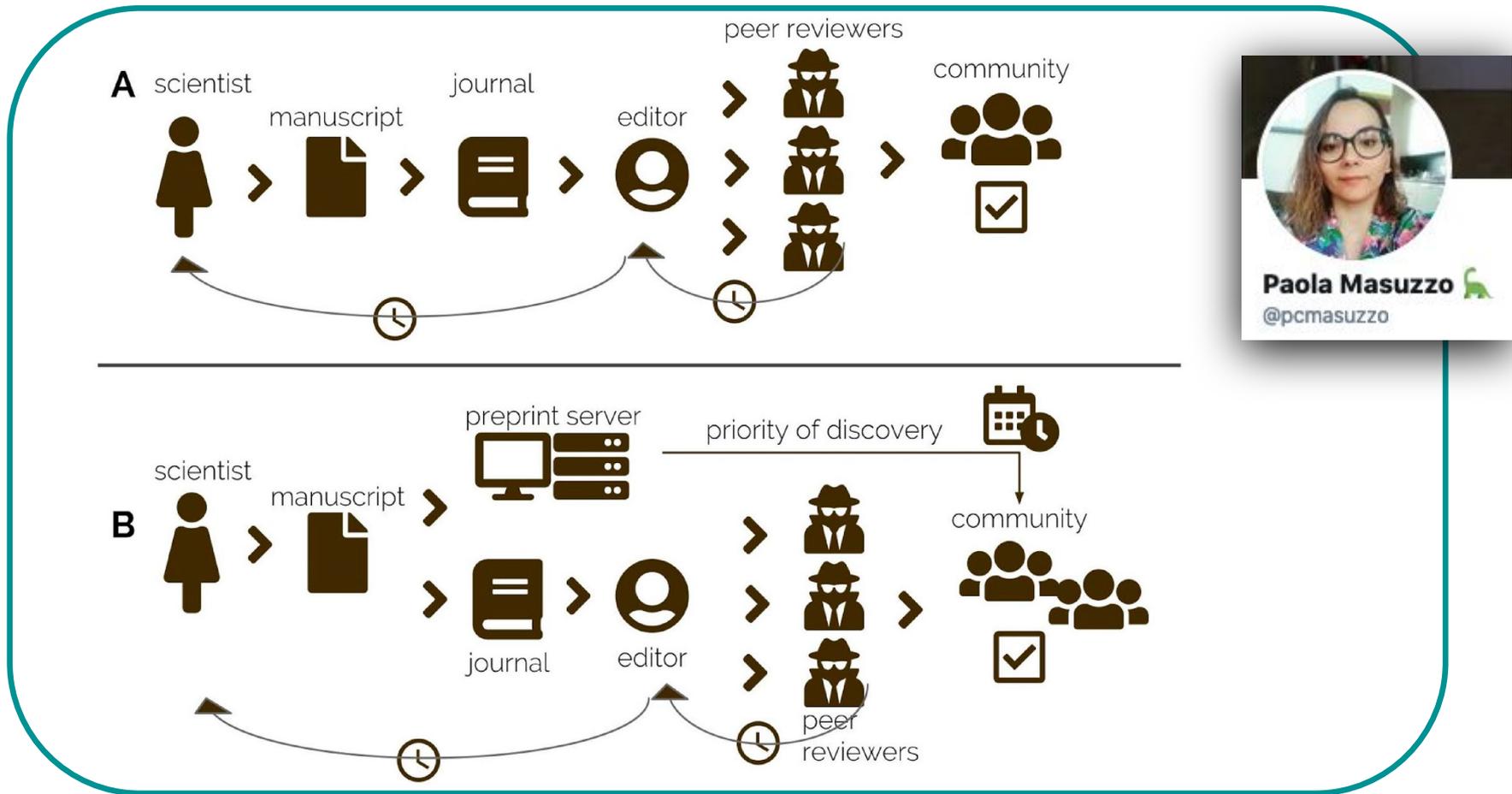


Figure 1. (A) Traditional peer review publishing workflow. **(B)** Preprint submission establishing priority of discovery.

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July 14, 2022 (v1) Journal article Open Access View

IBRAT TILLAR OROMGOHI CHET TILLARINI O'RGANISH UCHUN QULAY MAKON

Qosimova Zarguloy Abinjon qizi;

Teaching and learning foreign languages has become one of the requirements of time and space. In Uzbekistan, after independence, favorable opportunities for learning foreign languages were created. As our first president, Islam Karimov, said, "Currently, the teaching of foreign languages is gv

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АЙРИМ ТОИФАДАГИ ХОДИМЛАРНИНГ ИШГА ТИКЛАНИШИ БИЛАН БОГЛИҚ АЙРИМ МАСАЛАЛАР

Саидов Баходирхўжа Носирхўжаевич;

Ушбу тезисда қонун ва қонуности ҳужжатларнинг айрим тоифадаги ходимларни ишга тиклаш билан боғлиқ масалаларига оид қисмини таҳлил қилиш, уларни ишга тиклаш билан боғлиқ айрим масалалар жараёнида суд амалиётида кузатилаётган хато ва камчиликларнинг қонуний ечимига қаратилган таклиф ва хулосалар келти

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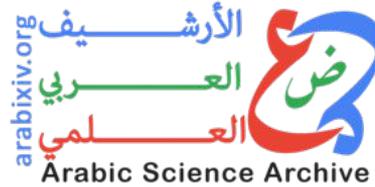
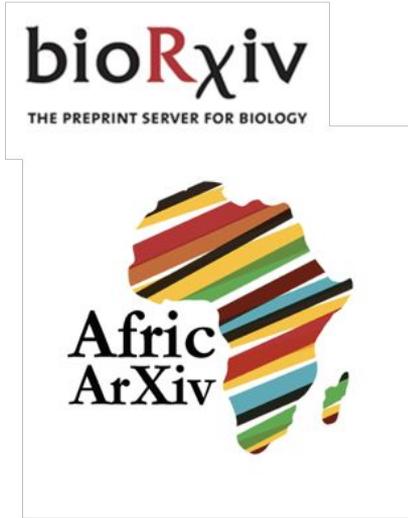
Note on the Riemann Hypothesis

Frank Vega;

The Riemann Hypothesis is a conjecture that the Riemann zeta function has its zeros only at the negative even integers and complex

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Preprint Repositories



Rounds of drafting
& informal feedback



Preprint

Work in progress
Submitted version

Can always be shared in
a green OA repository at
any time

Submitted to journal
Peer review
Author corrections



Postprint

Author-accepted
manuscript (AAM)

Can always be shared in
a green OA repository
after accepted by
journal (sometimes
after embargo)

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Published

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Can usually only be
shared if published by a
gold OA or hybrid
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WIKIPEDIA

Thomas Shafee - Own work; adapted
from diagram by Ginny Barbour

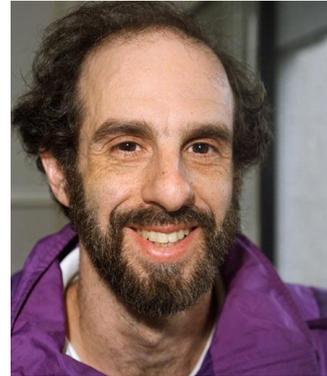


<https://en.wikipedia.org/wiki/Preprint>



1,752,436 scholarly articles

founded by **Paul Ginsparg** in 1991



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<https://asapbio.org/preprint-servers>

Preprints

early dissemination of research results before formal publication in an academic journal

establish priority of discovery

allow for feedback on the manuscript by the wider research community

facilitate open science practices (OA)

reputation building for early career researchers



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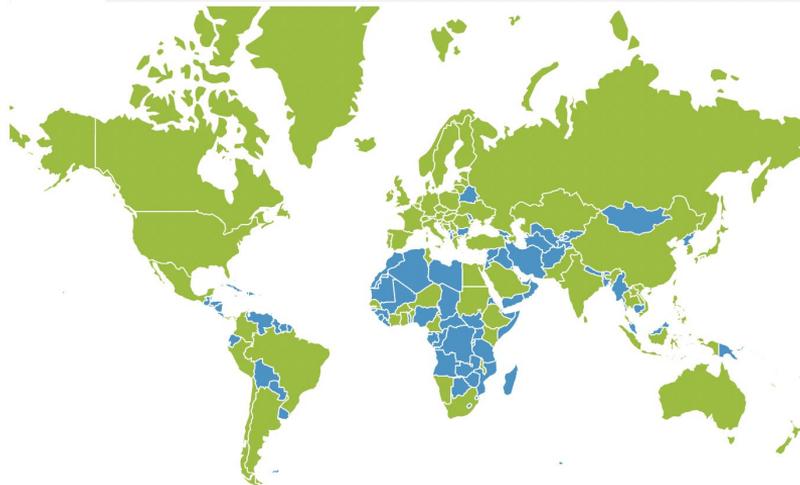
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GAWSIS

GAW Station Information System



Subject(s)

Geosciences (including Geography) Atmospheric Science Geophysics Natural Sciences Atmospheric Science and Oceanography Geophysics and Geodesy

Content type(s)

Standard office documents Scientific and statistical data formats Plain text Archived data

Country

Switzerland

GAWSIS is being developed and maintained by the Federal Office of Meteorology and Climatology MeteoSwiss in collaboration with the WMO GAW Secretariat, the GAW World Data Centres and other GAW representatives to improve the management of information about the GAW network of ground-based stations. The application is presently hosted by the Swiss Laboratories for Materials Testing and Research Empa. GAWSIS provides the GAW community and other interested people with an up-to-date, searchable data base of site descriptions, measurements programs and data available, contact people, bibliographic references. Linked data collections are hosted at the World Data Centers of the WMO Global Atmosphere Watch.

STRING

Known and Predicted Protein-Protein Interactions



Subject(s)

Life Sciences Biology Cell Biology General Genetics Bioinformatics and Theoretical Biology Basic Biological and Medical Research

Content type(s)

Raw data Structured graphics Plain text Archived data Networkbased data other

Country

Germany European Union Switzerland Denmark

STRING is a database of known and predicted protein interactions. The interactions include direct (physical) and indirect (functional) associations; they are derived from four sources: - Genomic Context - High-throughput Experiments - (Conserved) Coexpression - Previous Knowledge STRING quantitatively integrates interaction data from these sources for a large number of organisms, and transfers information between these organisms where applicable.

UniProtKB/Swiss-Prot

UniProt Knowledgebase



Subject(s)

Basic Biological and Medical Research General Genetics Biology Life Sciences

Content type(s)

Networkbased data Structured graphics Plain text other

Country

Switzerland International United Kingdom

Publication strategy:

A preconsidered & coherent set of choices regarding the why, what, when, how and where of sharing/publishing research. What are your or your team's priorities for the next project coming up? What role for open science practices in your publishing?

[WHY]	[WHAT]	[WHEN]	[HOW]	[WHERE]
As my/my team's publishing goal is to ... <input checked="" type="checkbox"/> establish priority on findings <i>i</i> <input type="checkbox"/> invite comments, feedback & scrutiny <input type="checkbox"/> archive evidence <input type="checkbox"/> promote my (team's) visibility <i>u</i> <input type="checkbox"/> create material to use in education <input checked="" type="checkbox"/> communicate with societal stakeholders <input type="checkbox"/> meet formal funder requirements <input checked="" type="checkbox"/> foster careers of ECRs and temporary staff <input type="checkbox"/> get new funding <input type="checkbox"/> have work formally peer reviewed <i>i</i> <input type="checkbox"/> provide information researchers can build on <input type="checkbox"/> provide information practioners etc. can build on <input type="checkbox"/> make scholarly communication more equitable <input checked="" type="checkbox"/> make it easy for others to use the work <input checked="" type="checkbox"/> help improve reproducibility of science <i>i u</i> <input type="checkbox"/> contribute to knowledge curation <input type="checkbox"/> reach the largest possible audience <i>i</i> <input type="checkbox"/> make it easy for others to assess the work	... we intend to publish these ... <input type="checkbox"/> research applications/proposals <input type="checkbox"/> preregistrations <i>i u</i> <input type="checkbox"/> registered reports <i>i u</i> <input checked="" type="checkbox"/> data <i>i u</i> <input type="checkbox"/> data papers <i>i</i> <input checked="" type="checkbox"/> code & software <i>i u</i> <input type="checkbox"/> workflows and methods <input type="checkbox"/> presentation slides <input type="checkbox"/> conference posters <i>i</i> <input checked="" type="checkbox"/> articles/books reporting research results <input type="checkbox"/> negative/null results <i>i</i> <input checked="" type="checkbox"/> replication studies <input type="checkbox"/> review articles <i>i</i> <input type="checkbox"/> systematic reviews <i>i u</i> <input type="checkbox"/> meta-analyses <i>i</i> <input type="checkbox"/> popularising books <input type="checkbox"/> blogs etc. on project progress <input checked="" type="checkbox"/> blogs etc. aimed at discussion <input type="checkbox"/> opinion pieces (e.g. in newspapers) <i>i</i> <input type="checkbox"/> guidelines <input type="checkbox"/> handbooks <i>i</i> <input type="checkbox"/> policy-oriented documents	... at these moments ... <input type="checkbox"/> upon creation (open drafting) <input checked="" type="checkbox"/> as early as possible in our workflow <input type="checkbox"/> also before review (e.g. as preprint) <input type="checkbox"/> after formal peer review <i>i</i>	... while trying to ... <input type="checkbox"/> use double blind peer review <i>i</i> <input type="checkbox"/> use single blind peer review <input type="checkbox"/> use open peer review (identities) <i>i u</i> <input checked="" type="checkbox"/> allow open peer review reports <i>i u</i> <input checked="" type="checkbox"/> discuss author order with all authors <i>i</i> <input type="checkbox"/> indicate contributor roles (CREDIT) <i>i</i> <input type="checkbox"/> credit all contributors to the research <input checked="" type="checkbox"/> add a plain language abstract <i>i</i> <input type="checkbox"/> add a data availability statement <i>i</i> <input type="checkbox"/> cite OA (versions of) literature <input type="checkbox"/> add multilingual abstracts <input type="checkbox"/> contribute to closed peer review <input type="checkbox"/> contribute to open peer review <i>i</i> <input type="checkbox"/> contribute to open commenting <input type="checkbox"/> improve versions using public comments <input type="checkbox"/> add a visual abstract <input type="checkbox"/> provide formal data/software citations <i>i i</i> <input checked="" type="checkbox"/> provide researcher identifiers (ORCIDs) <i>i u</i> <input checked="" type="checkbox"/> attach a 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my/our strategy:

My/my team's publishing goal is to establish priority on findings, communicate with societal stakeholders, foster careers of ECRs and temporary staff, make it easy for others to use the work and help improve reproducibility of science. That is why we intend to publish data, code & software, articles/books reporting research results, replication studies and blogs etc. aimed at discussion, and mostly do that as early as possible in our workflow. Where relevant and possible we will try to allow open peer review reports, discuss author order with all authors, add a plain language abstract, provide researcher identifiers (ORCIDs) and attach a CC-BY or CC0 license. We aim to use these platforms and venues to communicate and share our work: fully open access journals without APCs, institutional repositories and our own project website.

N.B. This sheet can be used for discussing current ways of working and for discussing strategies, in groups as well as individual settings. Relevant options can vary for different projects you are working on. In a coherent strategy options chosen in the various columns make sense and do not contradict, although you can have multiple goals and parallel ways of working. To use the interactive functionality, first download your own copy of the worksheet. Then start by ticking a goal, which will often trigger some suggestions in the other columns that you can follow or ignore. You can add more goals. While making selections your narrative will be built. The 'i's lead to general background information, 'u's to information in the Utrecht University context (when reusing outside Utrecht you can remove those or adapt them to your own institutional context). Note this tool should not be a straitjacket but rather facilitate discussion. Copy-paste and manually edit the narrative generated here. Read on the [ABOUT](#) page.

Jeroen Bosman & Bianca Kramer, [CC0](https://tinyurl.com/publishing-strategy)
<https://tinyurl.com/publishing-strategy>
 last updated 20220213

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1) Define the scope of your research article incl. specific terms and phrases

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2b) Paste your abstract into any of the two journal matching systems

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3) Go through the checklist at <https://thinkchecksubmit.org/journals/>



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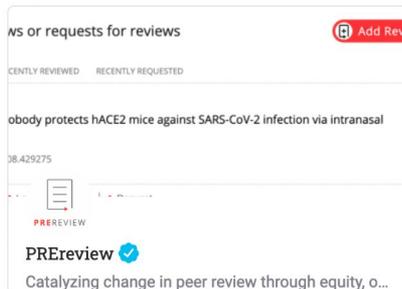
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ASAPbio

a registry of platforms and experiments reimagining peer review.



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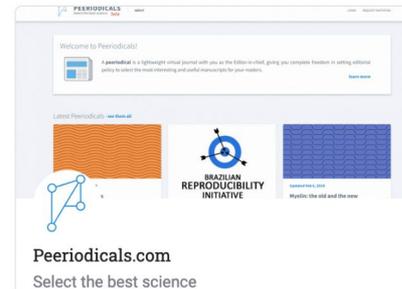
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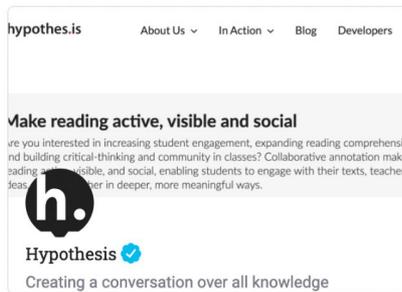
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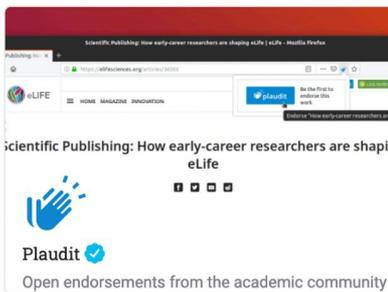
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Hypothesis ✓

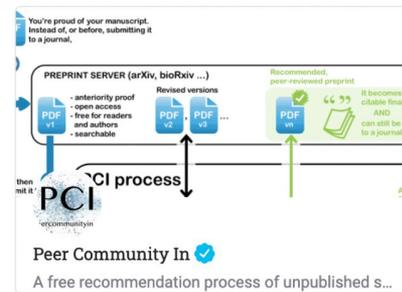
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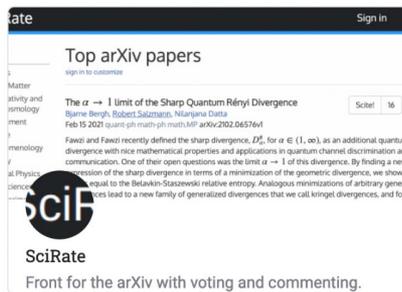
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then mit it: PCI process

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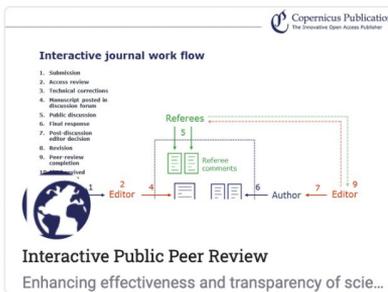
Ignacio Bengt, Robert Salazar, Mariana Theta

Feb 15 2021 quant-ph math-ph math.MP arXiv:2102.06576v1

Fawzi and Fawzi recently defined the sharp divergence, $D_{\alpha}^{\text{sharp}}$, for $\alpha \in (1, \infty)$, as an additional quantum divergence with nice mathematical properties and applications in quantum channel discrimination and communication. One of their open questions was the limit $\alpha \rightarrow 1$ of this divergence. By finding a new expression of the sharp divergence in terms of a minimization of the geometric divergence, we show it is equal to the Belavkin-Szazewski relative entropy. Analogous minimizations of arbitrary generalizations lead to a new family of generalized divergences that we call kergel divergences, and for

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4. Manuscript posted in discussion forum
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7. Final discussion/Editor decision
8. Revision
9. Peer review completion

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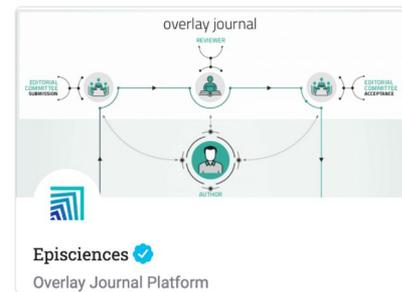
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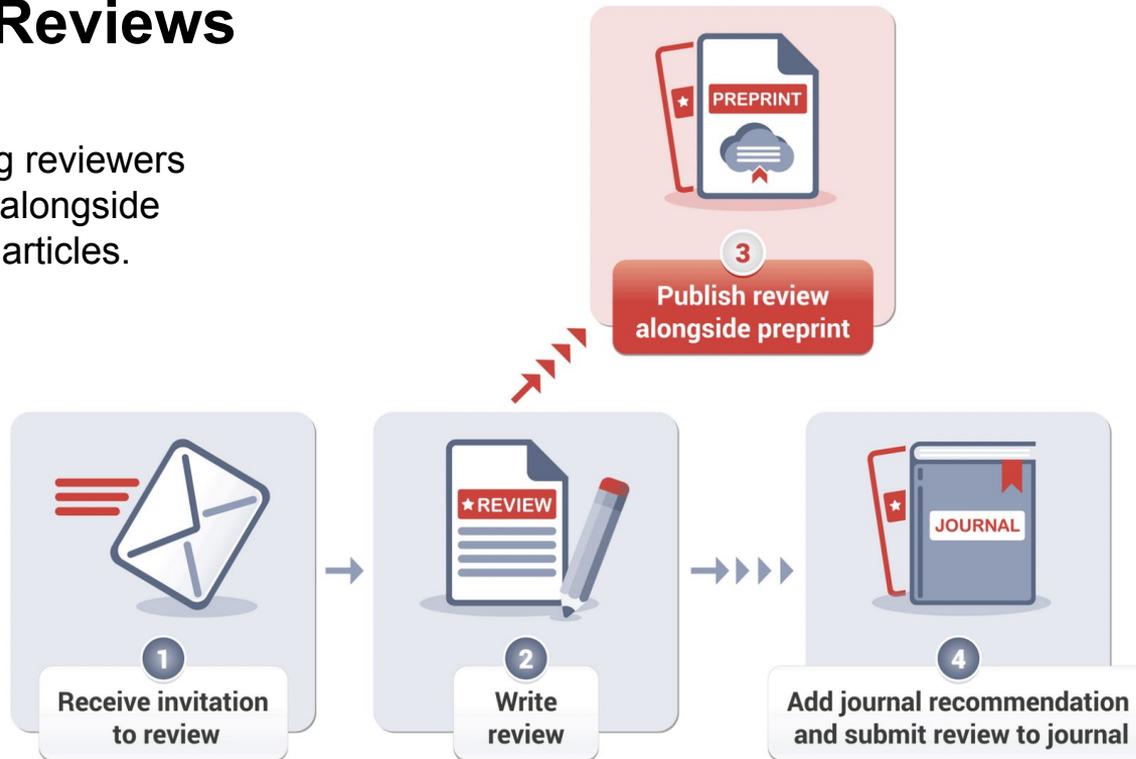
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Access 2 Perspectives

Publish Your Reviews

an initiative encouraging reviewers to post their comments alongside the preprint versions of articles.





**innovative workflows and platforms
for research dissemination and discovery**

Dr Jo Havemann

July 2022

Website: access2perspectives.org



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DOI: 10.5281/zenodo.6866168