



Preprints in Context

*13th Munin Conference
28-29 November 2018
Tromsø, Norway*

@Science_Open,

@SDawsonBerlin



The promise of preprints: early,
open, digital, community feedback

Advantages of a „preprint“ over an institutional repository

Discipline Specific:

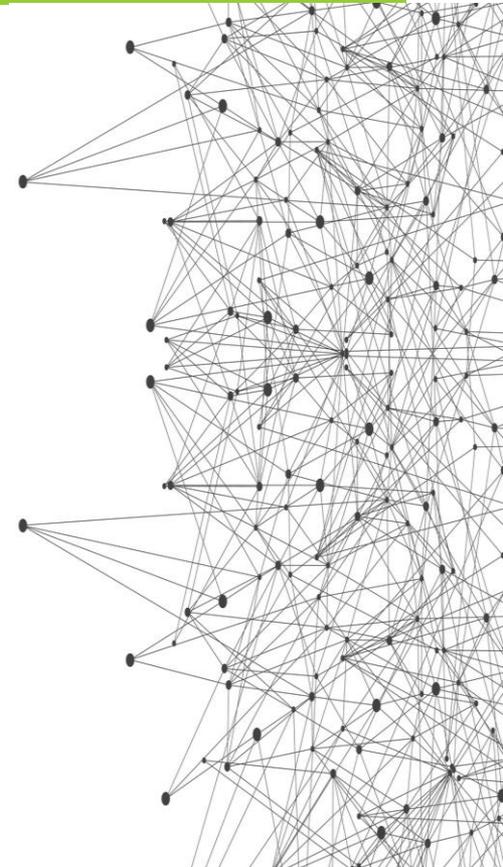
- Better discoverability for peers
- More community feedback

Early view:

- Access to research before official publication
- Clear statement about peer review

Metadata standards:

- Crossref Preprint DOI

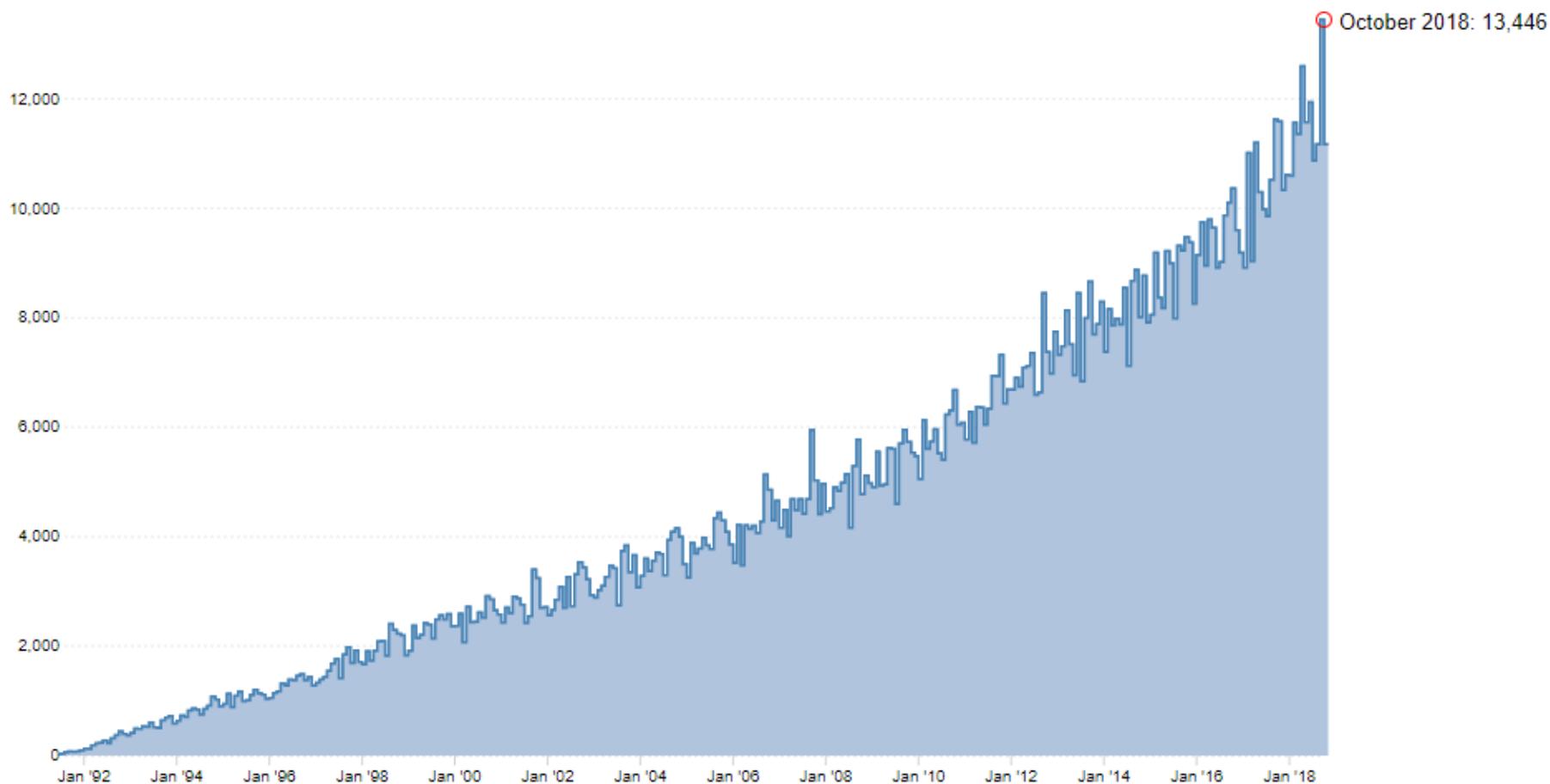




The last years have seen huge growth in the number of preprints published.

Total arXiv submissions as of November 28th,
2018 (after 27.3 years) = 1,467,643

arXiv monthly submission rates [\[CSV\]](#)



Context: Add a preprint filter to any search result in 50 million article records

The screenshot displays the scienceOPEN.com search interface. The top navigation bar includes the scienceOPEN.com logo, navigation links for MY SCIENCEOPEN, BLOG, and ABOUT, and a search bar with a magnifying glass icon and a plus sign. Below the navigation bar, there are two sidebar panels for narrowing search results. The left sidebar shows 'Narrow by' categories: 'Ticks and tick-borne pathogens' (8 results) and 'bioRxiv' (10 results). The right sidebar shows 'Narrow by discipline' with categories like 'Life sciences' (13), 'Microbiology & Virology' (7), 'Evolutionary Biology' (2), 'Statistics' (2), and 'Applications' (2). The main search area features a search bar with the text 'Lyme Disease' and an 'Exact match' checkbox. Below the search bar, there are tabs for 'Content', 'Authors', 'Collections', 'Featured', 'Journals', and 'Publishers'. A 'Preprint' filter is active, indicated by a checked checkbox. The search results show 16 results. The first result is 'Detecting Lyme Disease Using Antibody-Functionalized Single-Walled Carbon Nanotube Transistors' by Dustin Brisson (2013), which is a preprint. The second result is 'Persistent Borrelia Infection in Patients with Ongoing Symptoms of Lyme Disease' by Marianne J Middelveen et al. (2018), also a preprint. Each result includes a 'Preprint' label, a view count, a share icon, a star rating, and an 'Add to collection' button.

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Narrow by scienceOPEN.com
research+publishing network

Ticks and tick-borne pathogens 8

bioRxiv 10

Narrow by discipline

Life sciences 13

Microbiology & Virology 7

Evolutionary Biology 2

Statistics 2

Applications 2

Search

Content Authors Collections Featured Journals Publishers

Lyme Disease Exact match

Preprint Preprint Not preprint

16 results Add filter ▾ Save search Export as citations ▾ Sort by Altmetric score ▾ Search

RECORD ABSTRACT ARTICLE

Detecting Lyme Disease Using Antibody-Functionalized Single-Walled Carbon Nanotube Transistors

Dustin Brisson (2013)

We examined the potential of antibody-functionalized single-walled carbon nanotube (SWNT) field-effect transistors (FETs) for use as a fast and accurate sensor for a Lyme disease antigen. Biosensors were fabricated on oxidized silicon wafers using chemical vapor deposition grown carbon nan... Show more

96 views 4 ☆☆☆☆☆ 0 Preprint Add to collection Altmetric 91

RECORD ABSTRACT ARTICLE

Persistent Borrelia Infection in Patients with Ongoing Symptoms of Lyme Disease

Marianne J Middelveen, Eva Sapi, Jennie Burke, Katherine R Filush, Agustin Franco, 2 more... (2018)

1 views 2 ☆☆☆☆☆ 0 Preprint Add to collection Altmetric 61

Versioning: Preprint vs. Version of Record

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MY SCIENCEOPEN → BLOG ABOUT 🔍 SEARCH +

MY SCIENCEOPEN → BLOG ABOUT 🔍 SEARCH +

15 views	48 references	41 cited by	☆☆☆☆☆ 0 reviews	0 comments	0 recommends	0 collections	0 shares	3,647 similar
Altmetric: 374	TOP REFERENCES	MOST CITED	★ REVIEW	COMMENT	+1 RECOMMEND	ADD TO	SHARE	ALL SIMILAR

Similar articles

3,647

RECORD

ABSTRACT

ARTICLE

Evidence for horizontal transfer of a secondary metabolite gene cluster between fungi
Authors: Nora Khaldi, Jérôme Collemare, Marc Lebrun ...

Horizontal gene transfer in chromalveolates
Authors: Tetyana Nosenko, Debashish Bhattacharya

Evolution of Phototrophy in the Chloroflexi Phylum Driven by Horizontal Gene Transfer
Authors: Lewis Ward, James Hemp, Patrick Shih ...

See all similar ▶

No evidence for extensive horizontal gene transfer in the genome of the tardigrade *Hypsibius dujardini*.

Authors: Georgios Koutsovoulos¹, Sujai Kumar¹, Dominik R Laetsch², Lewis Stevens¹, Jennifer Daub¹, Claire Conlon¹, Habib Maroon¹, Fran Thomas¹, Aziz A Aboobaker³, Mark Blaxter⁴

Publication date (Electronic): May 3, 2016

Journal: Proceedings of the National Academy of Sciences of the United States of America
Keywords: blobtools, contamination, horizontal gene transfer, metagenomics, tardigrade

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Review

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Cited by

41

Extremotolerant tardigrade genome and improved radiotolerance of human cultured cells by tardigrade-unique protein
Authors: Takuma Hashimoto, Daiki D. Horikawa, Yuki Saito ...

Horizontal Gene Transfer Contributes to the Evolution of Arthropod Herbivory
Authors: Nicky Wybouw, Yannick Pauchet, David Heckel ...

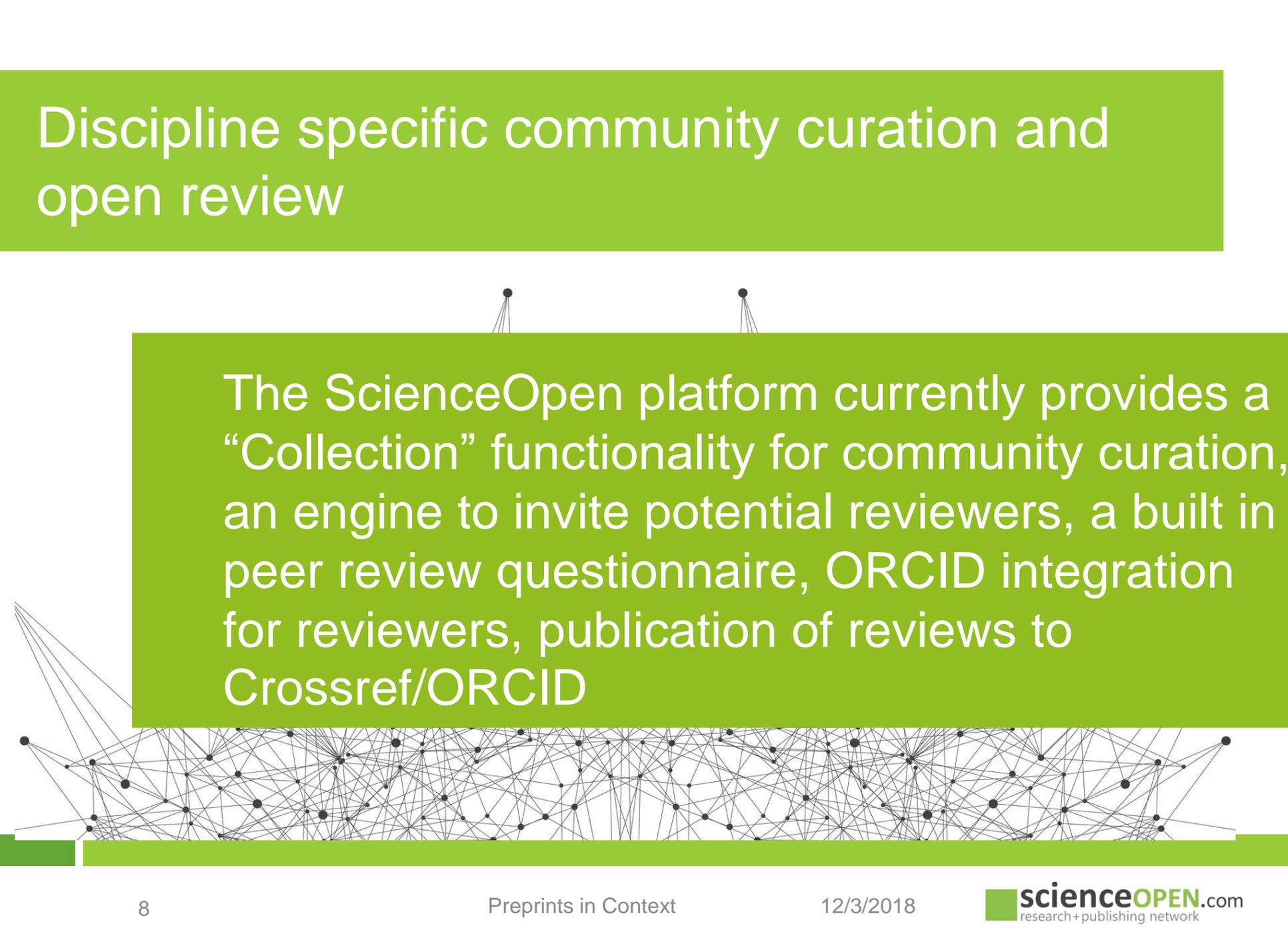
The draft genome of whitefly *Bemisia tabaci* MEAM1, a global crop pest, provides novel insights into virus transmission, host adaptation, and

There is no author summary for this article yet. Authors can add summaries to their articles on ScienceOpen to make them more accessible to a non-specialist audience.

Abstract

Tardigrades are meiofaunal ecdysozoans that are key to understanding the origins of Arthropoda. Many species of Tardigrada can survive extreme conditions through cryptobiosis. In a recent paper [Boothby TC, et al. (2015) Proc Natl Acad Sci USA 112(52):15976-15981], the authors concluded that the tardigrade *Hypsibius dujardini* had an unprecedented proportion (17%) of genes originating through functional horizontal gene transfer (fHGT) and speculated that fHGT was likely formative in the evolution of cryptobiosis. We independently sequenced the genome of *H. dujardini*. As expected from whole-organism DNA sampling, our raw data

Discipline specific community curation and open review

A decorative network diagram consisting of numerous black dots (nodes) connected by thin black lines (edges), forming a complex web. The diagram is positioned at the bottom of the slide, extending across the width of the page. Two additional nodes are shown above the main network, connected by lines to the top edge of the slide.

The ScienceOpen platform currently provides a “Collection” functionality for community curation, an engine to invite potential reviewers, a built in peer review questionnaire, ORCID integration for reviewers, publication of reviews to Crossref/ORCID

Researcher-led collections on ScienceOpen



Primate Tool Use

Papers on non-human primate tool use

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[Statistics](#)

[Unfollow](#)

78
articles

573
views

4.543
altmetric

☆☆☆☆☆
0 reviews

7
recommends

19
shares

2
followers

Narrow by collection

Coleoptera	1
ScienceOpen Posters	1

Narrow by publisher

Elsevier BV	15
Springer Nature	9

Publications

[New search](#) ✕

Enter some words to filter items below

Exact match

78 results

[Add filter](#) ▾

[Save search](#)

[Export as citations](#) ▾

[Sort by date](#) ▾

[Search](#) 🔍

[RECORD](#) [ABSTRACT](#) [ARTICLE](#) 🔒

Choice of stone tools to put cracking by capuchin monkeys (*Capuchin*)



bioRxiv preprints – Added to 11 researcher-led collections on ScienceOpen

27.689
articles

8.658
views

418.800
altmetric

☆☆☆☆
0 reviews

Narrow by collection

Zika Virus	161
SAXS:Recent	23
Coleoptera	10
Ticks and tick-borne pathogens	10
Reproducible research article collection	7
Open source discrete and agent-based modeling frameworks for biology	5
The Gratitude Collection	2
Research Paper of the Future	1
Higher order chromatin architecture	1
Primate Tool Use	1
Tics	1

Narrow by discipline

Life sciences	25.632
Neurosciences	4.627
Quantitative & Systems biology	4.300
Genetics	4.181
Evolutionary Biology	2.403

bioRxiv

PUBLISHER

Publications

Enter some words to filter items below

27.689 results

Add filter ▾

Save search

Export as citations ▾

RECORD

ABSTRACT

ARTICLE

Reagent contamination can critically impact sequence-based microbiome analyses

Miriam Moffatt, Szymon T. Calus, Michael Cox, Alan W. Walker, Susannah J Salter, 5 more... (2014)

The study of microbial communities has been revolutionised in recent years by the widespread adoption of culture-independent techniques such as 16S rRNA gene sequencing and metagenomics. One potential confounder of these sequence-based approaches is



244 views



3



0

Preprint

RECORD

ABSTRACT

ARTICLE

Gender and international diversity improves equity in peer review

Vincent Larivière, Jennifer Raymond, Dakota Murray, Cassidy Sugimoto, Kyle Siler, 2 more... (2018)

The robustness of scholarly peer review has been challenged by evidence of disparities in publication outcomes based on author's gender and nationality. To address this, we examine the peer review outcomes of 23,873 initial submissions and 7,192 full submissions that were submitted to the bioscience



211 views



1 recommend



2



0

Preprint

Altmetric 832

New search X

Exact match

Search Q

Sort by view count ▾

Sort by Altmetric score

Sort by average rating

Sort by cited by count

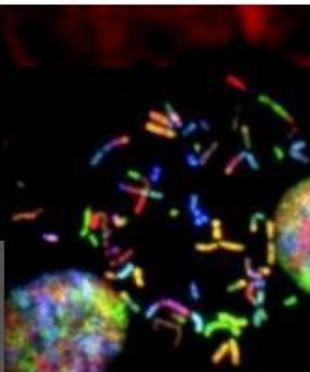
Sort by date

Sort by view count

Sort by relevance

Show more

Preprints clearly flagged and open for public review



Higher order chromatin architecture

Modern sequencing and microscopic techniques have expanded our view on nuclear architecture and chromosomal structure. Still, we have only a limited knowledge of the spatial and temporal dynamics of interphase chromosomes. This collection of articles focuses on recent advances in understanding higher order chromatin structure and function.

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 [Statistics](#)

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407
articles

5.298
views

15.906
altmetric

☆☆☆☆☆
0 reviews

43
recommends

35
shares

5
followers

Narrow by discipline

Life sciences	3
Biophysics	2
Physics	2
Condensed matter	2

Publications

[New search](#) ✕

Enter some words to filter items below

Exact match

Preprint Preprint Not preprint ✕

3 results

[Add filter](#) ▾

[Save search](#)

[Export as citations](#) ▾

[Sort by date](#) ▾

[Search](#) 

[RECORD](#) [ABSTRACT](#) [ARTICLE](#)

Higher-order inter-chromosomal hubs shape 3-dimensional genome organization in the nucleus

Prashant Bhat, Erik Aznauryan, Jan Schmidt, Barbara Tabak, Elizabeth Detmar, 13 more... (2017)

Eukaryotic genomes are packaged into a 3-dimensional structure in the nucleus of each cell. There are currently two distinct views of genome organization that are derived from different technologies. The first view, derived from genome-wide proximity ligation methods (e.g. Hi-C), suggests that [Show more](#)

Publish a preprint directly to ScienceOpen – a functionality to facilitate overlay journals



ScienceOpen Preprints

ScienceOpen welcomes submissions of preprints of unpublished research and offers a wide array of peer review tools on the platform. There is no charge associated with preprint publication.

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3
articles

1.036
views

27
altmetric

☆☆☆☆☆
0 reviews

7
recommends

10
shares

7
followers

Narrow by collection

- Open Access Publishing Practices 1
- Perspectives in Scholarly Publishing 1

Narrow by publisher

- ScienceOpen 3

Publications

[New search X](#)

Enter some words to filter items below

 Exact match

3 results

[Add filter](#)[Save search](#)[Export as citations](#)[Sort by view count](#)[Search](#)

RECORD ABSTRACT ARTICLE

Towards a sustainable Open Access monograph publishing workflow for academic institutions

Antonia Schrader, Alexander Grossmann, Michael Reiche (2018)

Across the world, there is a growing interest in Open Access (OA) publishing. Therefore, OA publishing has become a trend and is of key importance to the scientific community. However, observing the publication landscape in Germany leads to a striking finding of very different approaches. In p... [Show more](#)

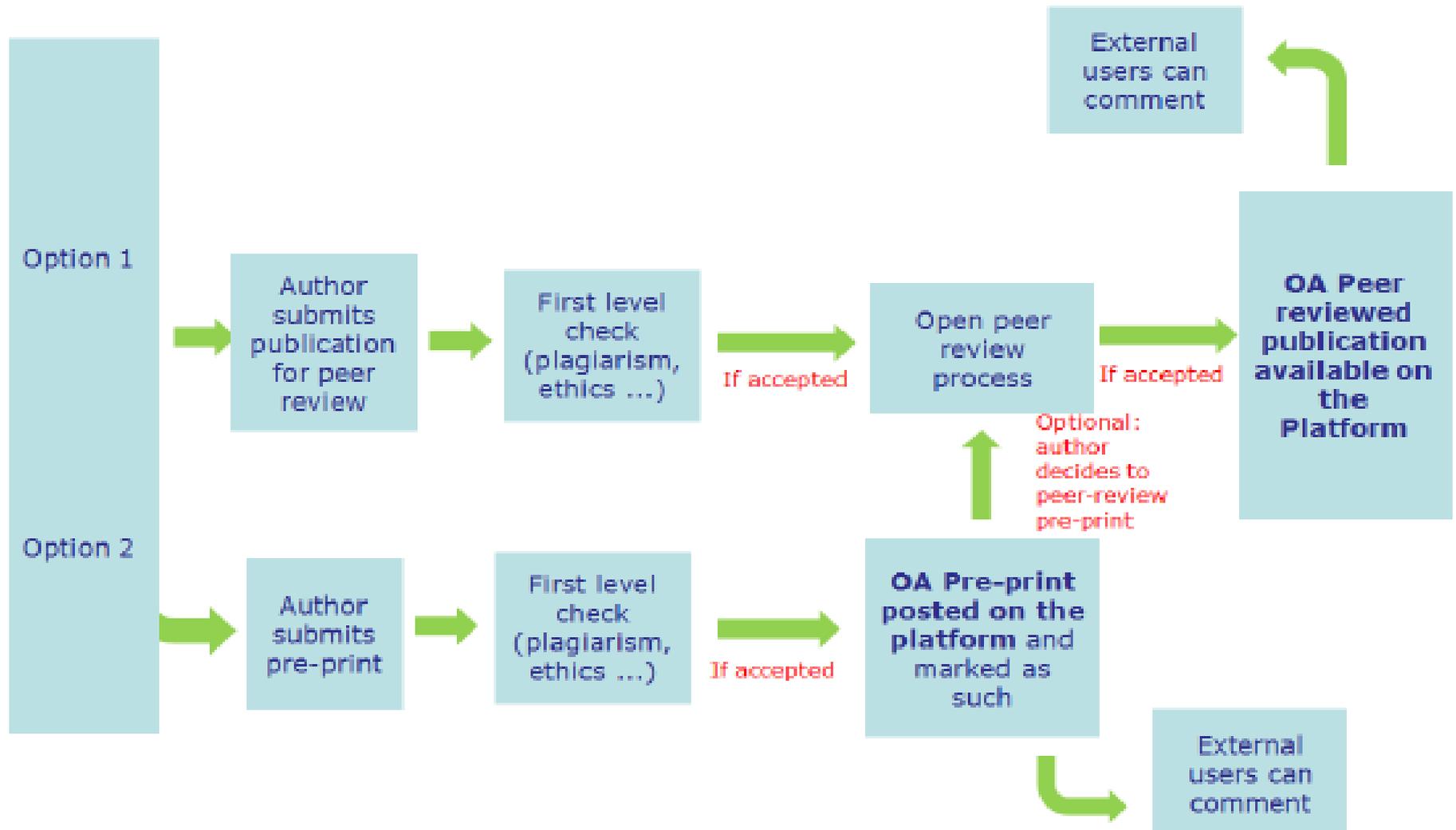
844 views 5 recommends 3 Preprint

Altmetric 25

Preprints: Publishing as „Work in Progress“

Preprint model can be built into the publishing system as an extra layer of built-in transparency and early view

Preprints: Publishing as „Work in Progress“ / EU Open Access Publishing Platform



Preprints: Publishing as „Work in Progress“ / UCL concept for open access publishing platform



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UCL launches open access megajournal to help solve the world's biggest challenges

16 January 2018

UCL Press is launching a new open access megajournal that will provide academics and students with ground-breaking research free of charge in a move that challenges traditional commercial publishing models.



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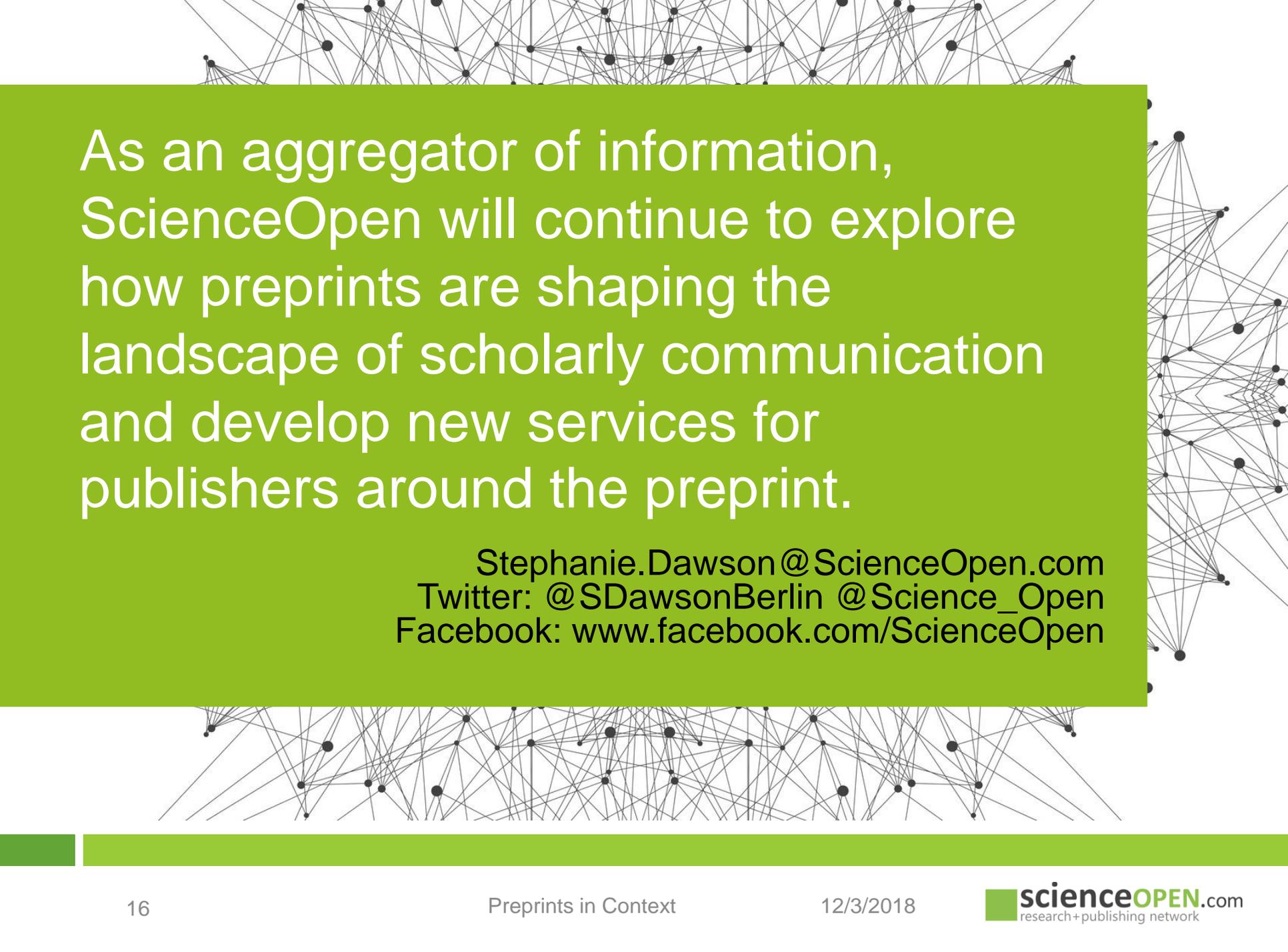


UCL News
[@uclnews](#)

Urban biodiversity is growing as species that can't survive amidst intense agriculture move to cities. [@ProfKateJones](#) & Dr [@AlisonFairbrass](#) have developed an algorithm to monitor this, improving our knowledge of how cities can support plants & animals [ucl.ac.uk/news/2018/nov/...](http://ucl.ac.uk/news/2018/nov/)



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A complex network diagram consisting of numerous black dots (nodes) connected by thin, grey lines (edges). The nodes are scattered across the top and bottom of the slide, with a higher density on the right side. The lines form a dense web of connections.

As an aggregator of information,
ScienceOpen will continue to explore
how preprints are shaping the
landscape of scholarly communication
and develop new services for
publishers around the preprint.

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