

# Thoughts on the many different paths to achieving open access

A talk by Ross Mounce  
for the Liverpool Open Research Week 2023



@rmounce@mastodon.social

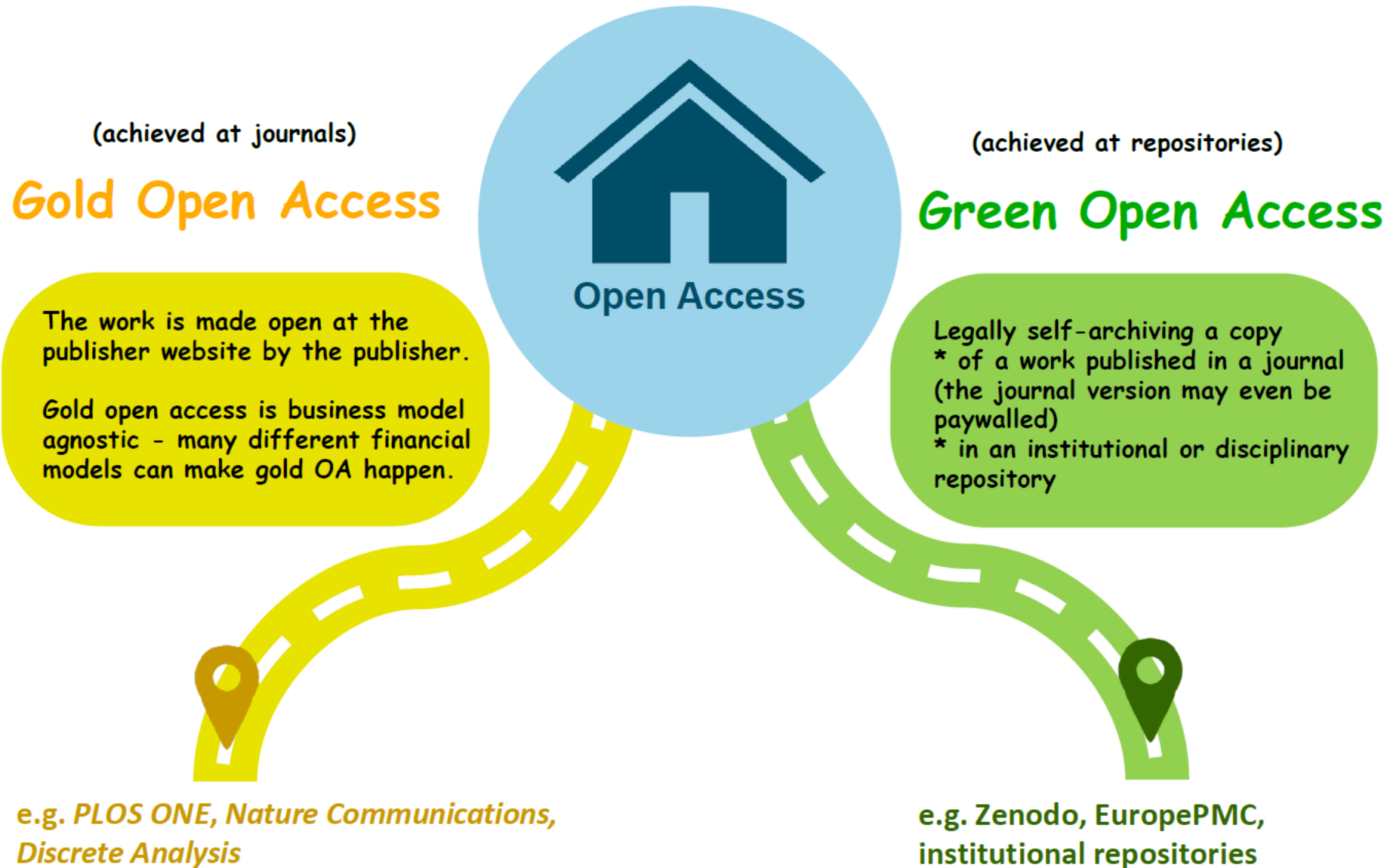
# **DISCLAIMER**

The opinions expressed in this talk are my own, as an individual. The opinions expressed in this talk do not purport to reflect the views or opinions of Arcadia Fund.

# Talk Outline

- Thoughts on the 'OA' colour system
- Journal Impact Factor <sup>TM</sup>
- "Transformative Agreements" (sic)
- Rights retention, copyright, and ways forward

# Two common 'roads' by which OA is achieved



Adapted from: Elisabeth Böker, Peter Brettschneider, Ilona Lang, Lena Dreher, Matthias Landwehr, Anja Oberländer, & Gabriel Schneider. (2020, September 8). Open Science: Von Daten zu Publikationen. Zenodo. <https://doi.org/10.5281/zenodo.4018594>

# Historical background of the green / gold dichotomy



Stevan Harnad

We have Stevan Harnad to thank/blame for the green/gold jargon.

**Some background:** Harnad was known for many flowery terms and phrases in open access including:

“Subversive proposal”

“Scholarly skywriting”

“Post-Gutenberg Galaxy: The Fourth Revolution in the Means of Production of Knowledge”

“Keystroke Koans”

# Gold open access - a widely misinterpreted term



“There are two roads to OA:  
the “golden” road (publish your article in an OA journal)  
and the “green” road (publish your article in a non-OA journal  
but also self-archive it in an OA archive).”

Source: Harnad *et al* 2004

Stevan Harnad, Tim Brody, François Vallières, Les Carr, Steve Hitchcock, Yves Gingras, Charles Oppenheim, Heinrich Stamerjohanns & Eberhard R. Hilf (2004)  
The Access/Impact Problem and the Green and Gold Roads to Open Access, *Serials Review*, 30:4, 310-314, DOI: [10.1080/00987913.2004.10764930](https://doi.org/10.1080/00987913.2004.10764930)



“Executive summary: The purpose of this work is to provide information to UK universities and policy makers on the likely cost impacts of Gold OA, where the costs of peer review, editorial work and other publishing services are covered by fees paid per article.”

Source: “Going for Gold?” Swan & Houghton 2012

Swan, A and Houghton, J (2012) *Going for Gold? The costs and benefits of Gold Open Access for UK research institutions: further economic modelling. Report to the UK Open Access Implementation Group*  
<https://repository.jisc.ac.uk/610/>

“In the jargon, OA delivered by journals is called *gold OA*, and OA delivered by repositories is called *green OA*.”



-- Peter Suber (2012) Open Access. Chapter 1: What is Open Access? p.6

<https://openaccess.mitpress.mit.edu/pub/6y6fc8k5/release/2>

“Gold open access does not intrinsically mean, however, that the author pays and, indeed, this was not integral to the term as it was coined by Stevan Harnad.”



-- Martin P. Eve (2014) Open Access and the Humanities *Contexts, Controversies and the Future*. Chapter 1 pp. 1-42 <https://doi.org/10.1017/CBO9781316161012.003>

# Green/Gold is perhaps a flawed non-dichotomy anyway?

**Q:** Consider a journal that is solely published and made available online from an institutional repository platform – is it 'gold' or 'green' ?

**Thought process:** because it is the 'official' journal website it could be considered 'gold'  
because it is published on repository platform software it could be considered 'green'

**A:** the green/gold dichotomy is flawed and not actually useful to describe all situations

**The line between a journal hosting platform and a repository hosting platform is blurred.** Both are just content hosting platforms. There are content hosting platforms that can be both at the same time! Multifunctionality.

*e.g. Colorado Journal of Psychiatry and Psychology and Cornell Real Estate Review* which are solely published on institutional repositories with help from librarians not “publishers”.



# At what level does the term Gold OA apply? Article-level or Journal-level?

Harnad couldn't have foreseen the advent of the 'hybrid' publishing option.

Are individual open access articles within an otherwise paywalled journal 'gold'?

Or does the entirety of a journal volume have to be open access for it to be 'gold'?

# Debates on "Gold" and "Green" are now endlessly confusing due to very different definitions used per debate

The screenshot shows the DOAJ website interface. At the top is a dark navigation bar with the DOAJ logo (three orange squares) and the text 'DOAJ OPEN GLOBAL TRUSTED'. To the right of the logo are links for 'SUPPORT', 'APPLY', and 'SEARCH'. Below this bar is a secondary navigation bar with links for 'SEARCH', 'DOCUMENTATION', 'ABOUT', and 'LOGIN'. The main content area has a light gray background with a large search bar. The search bar has a 'SEARCH' label, a 'Journals' dropdown menu, and a search button. Below the search bar is a 'SHARE OR EMBED' button. The search results section shows '18,983 indexed journals' and a 'Refine search results' section. The 'Refine search results' section includes a 'SEE JOURNALS...' section with checkboxes for 'With a DOAJ Seal' and 'Without article processing charges (APCs)'. There is also a 'SUBJECTS' section with a search bar and a list of subjects including 'Agriculture' and 'Auxiliary sciences of history'. The search results list shows 'Mineralogia' as the first result. The entry for 'Mineralogia' includes the journal title, a description 'Mineralogia: Geochemical, Mineralogical and Petrological Research', and publication information 'Published by Sciendo in Poland Accepts manuscripts in English'. It also includes a 'Journal subjects' section with 'Science: Geology: Mineralogy'. To the right of the journal entry is a sidebar with the text 'Last updated on 22 Feb 2023', a 'Website' link, 'No charges', and a 'CC BY' license link. The page number 'Page 1 of 380' is displayed in the center, with 'First', 'Prev', 'Next', and 'Last' navigation links.

DOAJ OPEN GLOBAL TRUSTED

SUPPORT APPLY SEARCH

SEARCH DOCUMENTATION ABOUT LOGIN

SEARCH

Journals

SHARE OR EMBED

18,983 indexed journals

Refine search results

SEE JOURNALS...

☐ With a DOAJ Seal

☐ Without article processing charges (APCs)

SUBJECTS

Search 526 subjects

☐ Agriculture

☐ Auxiliary sciences of history

Sort by

Added to DOAJ (newest first)

Results per page

50

Page 1 of 380

First Prev Next Last

**Mineralogia**

Mineralogia: Geochemical, Mineralogical and Petrological Research

Published by Sciendo in Poland Accepts manuscripts in English

Journal subjects

Science: Geology: Mineralogy

Last updated on 22 Feb 2023

[Website](#)

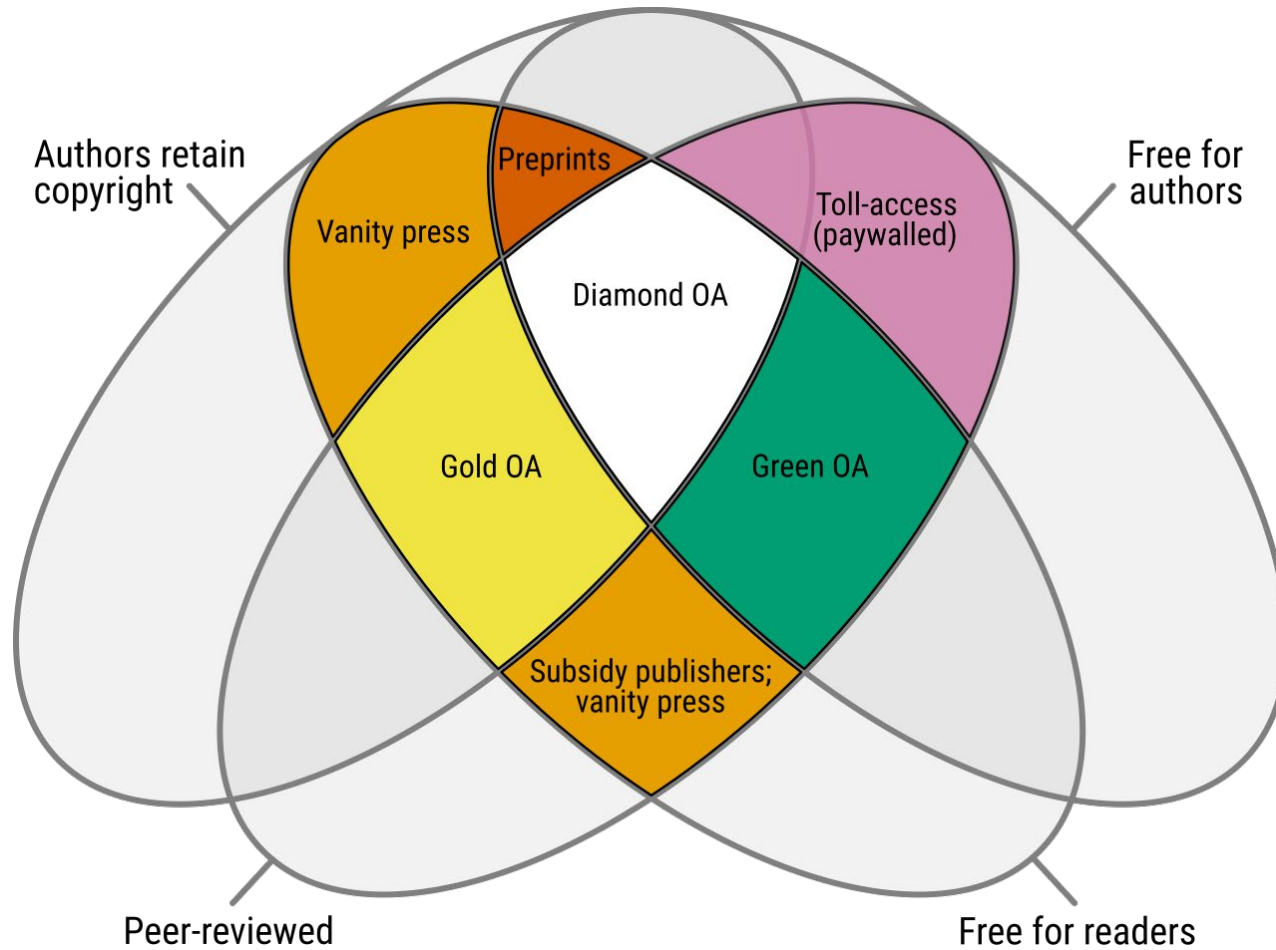
No charges

[CC BY](#)

A good example of avoiding confusion is the DOAJ website. It lists a lot of (gold) open access journals.

The phrase "gold open access" is avoided/absent 😊

# Lovely graphic, but it oversimplifies a bit...



- Diamond is a subset of Gold
- Authors do not always retain copyright in Diamond OA and Gold OA journals
- Vanity presses aren't always necessarily free for readers
- Some toll-access journals are NOT free for authors  
e.g. page charges & submission fees  
e.g. *PNAS*, *The Journal of Bone & Joint Surgery*

# Clarivate's Journal Impact Factor™

- Proprietary
- Irreproducible
- Statistically illiterate
- Negotiable
- Negatively correlates with scientific rigour
- Narrow 2-year window of citation-counting
- Wasn't designed for research assessment of individuals / papers



<http://bjoern.brembs.net/2016/01/just-how-widespread-are-impact-factor-negotiations/>

<https://occamstypewriter.org/scurry/2012/08/13/sick-of-impact-factors/>

<http://quantixed.org/2015/05/05/wrong-number-a-closer-look-at-impact-factors/>

Brembs B, Button K and Munafò M (2013) Deep impact: unintended consequences of journal rank. *Front. Hum. Neurosci.* 7:291. doi: [10.3389/fnhum.2013.00291](https://doi.org/10.3389/fnhum.2013.00291)

PLoS Medicine Editors (2006) The impact factor game. It is time to find a better way to assess the scientific literature. *PLoS Medicine* doi: [10.1371/journal.pmed.0030291](https://doi.org/10.1371/journal.pmed.0030291)

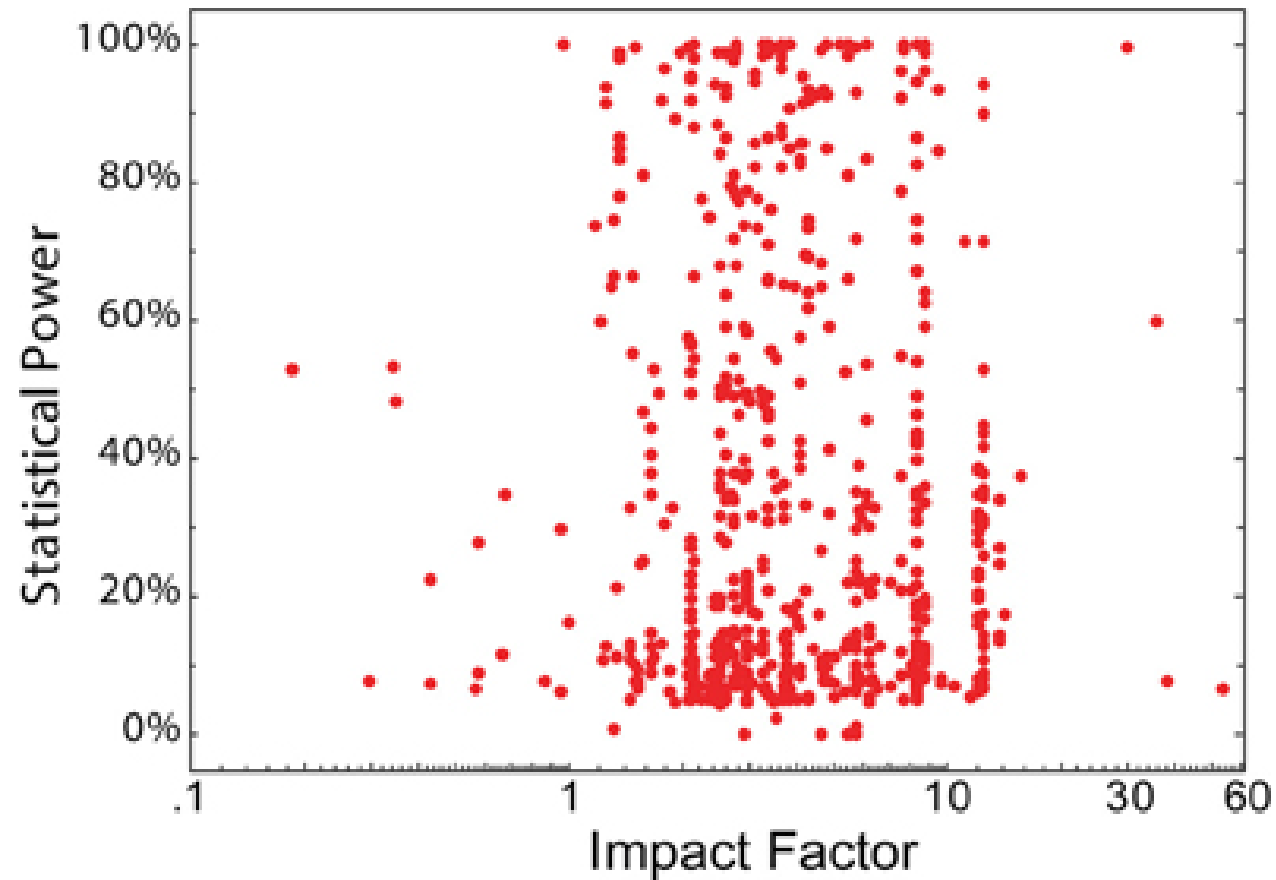
# Clarivate's Journal Impact Factor™

- The journal *Acta Crystallographica A*

	2007	2008	2009	2010	2011	2012
JIF™	2.385	2.051	<b>49.93</b>	<b>54.33</b>	2.076	2.244

**One highly cited paper:** Sheldrick GM. (2008) A short history of SHELX. *Acta Crystallogr A*.

**As discussed in:** Dimitrov, J., Kaveri, S. & Bayry, J. Metrics: journal's impact factor skewed by a single paper. *Nature* **466**, 179 (2010). <https://doi.org/10.1038/466179b>



The statistical power of 650 neuroscience studies.  
No association between statistical power & JIF.

Brembs B, Button K and Munafò M (2013) Deep impact: unintended consequences of journal rank.  
*Front. Hum. Neurosci.* 7:291. doi: [10.3389/fnhum.2013.00291](https://doi.org/10.3389/fnhum.2013.00291)

# How should Dora be enforced?

By Stephen Curry

Share    



UNIVERSITY OF  
LIVERPOOL

NEWS | 25 March 2021

## Row erupts over university's use of research metrics in job-cut decisions

Critics say redundancies are being decided using unreliable measures related to funding and citations, highlighting broader unease about the use of metrics in science.

[Holly Else](#)



One for the Q&A session?

Is responsible research assessment being practiced in 2023?



Image: [Sfdora](#) [CC BY-SA 4.0], via Wikimedia Commons

Dispute over Liverpool's use of metrics is best resolved through dialogue, says Stephen Curry

<https://www.researchprofessionalnews.com/rr-news-uk-views-of-the-uk-2021-9-how-should-dora-be-enforced/>



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## ESAC Transformative Agreement Registry

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<https://esac-initiative.org/about/transformative-agreements/agreement-registry/>



Rank ↕	Country ↕	Number of scientific publications (2020) ↕
1	 China	744042
2	 United States	624554
3	 United Kingdom	198500
4	 India	191590
5	 Germany	174524
6	 Italy	127502
7	 Japan	127408
8	 Canada	121111
9	 Russia	119195
10	 France	112838
11	 Australia	106614
12	 Spain	104353
13	 South Korea	91030
14	 Brazil	89241
15	 Iran	71894
16	 Netherlands	62512
17	 Turkey	53802
18	 Poland	51994
19	 Indonesia	49160
20	 Switzerland	47607

## Number of ESAC registered "Transformative Agreements" (as of March 2023)

ONE (exc. Hong Kong)  
 37 (of which 24 are single institution TAs)  
 73  
 ZERO  
 83  
 TWELVE (none with Elsevier or OUP)  
 FOUR (none with Elsevier, OUP, T&F...)  
 SIX (none with Elsevier, OUP, T&F...)  
 ZERO  
 THREE (Wiley & EDP Sciences x2)  
 25  
 19  
 TWO (Elsevier & Wiley)  
 ZERO  
 ZERO  
 88  
 TWO (ACS & CUP)  
 SEVEN (all of which are expired)  
 ZERO  
 18

(for the avoidance of doubt)

- I am NOT criticizing countries, consortia, and institutions that have NOT signed "transformative agreements"
- There are simply other (better?) ways and means of financially supporting open access to research

Rank ↕	Country ↕	Number of scientific publications (2020) ↕
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ZERO  
88  
TWO (ACS & CUP)  
**SEVEN (all of which are expired)**  
ZERO  
18

# Reminder: the current year is 2023

Search:

Publisher	Country	Organization	Annual publications	Start date	End date	Details/ ID
American Chemical Society	Poland	Academic consortium coordinated by ICM University of Warsaw	300	01/01/2020	12/31/2022	acs2020icm
Cambridge University Press	Poland	Academic consortium coordinated by ICM University of Warsaw	125	01/01/2020	12/31/2020	cam2020icm
Elsevier	Poland	National academic license coordinated by ICM University of Warsaw	1000	01/01/2019	12/31/2021	els2019icm
IEEE	Poland	Academic consortium coordinated by ICM University of Warsaw	120	01/01/2020	12/31/2022	eee2020icm
IOP Publishing	Poland	Academic consortium coordinated by ICM University of Warsaw	100	01/01/2020	12/31/2022	iop2020icm
Oxford University Press	Poland	Academic consortium coordinated by ICM University of Warsaw	204	01/01/2020	12/31/2020	oxf2020icm
Springer Nature	Poland	National academic license coordinated by ICM University of Warsaw	2000	01/01/2019	12/31/2021	sc2019icm





















Showing 1 to 7 of 7 entries (filtered from 663 total entries)

# Marketing nonsense: things touted as “OA agreements”

- Major consortia of Italian and French research institutions are notable in that they have some sort of agreement with Elsevier, but neither are registered in the ESAC agreement registry, nor published in-detail AFAIK.

In my view, whilst I acknowledge they exist, these non-transparent agreements are thus NOT “transformative agreements”.

- <https://www.elsevier.com/open-access/agreements/france-couperin-consortium>
- <https://www.elsevier.com/open-access/agreements/crui>

Rank ↕	Country ↕	Number of scientific publications (2020) ↕	Number of ESAC registered "Transformative Agreements" (as of March 2023)
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17	 Turkey	53802	TWO (ACS & CUP)
18	 Poland	51994	SEVEN (all of which are expired)
19	 Indonesia	49160	ZERO
20	 Switzerland	47607	18

# Time for the UK to walk away from TAs?

- The UK (via Jisc) is currently in negotiations Springer Nature about whether or not to sign another expensive TA with them.

**SPRINGER**  
**NATURE**

- The UK doesn't have to make a deal with Springer Nature.

- recommended read:

Prof. Stephen Eglen, 20<sup>th</sup> Feb 2023 “Should the UK make a deal with Springer Nature?” <https://unlockingresearch-blog.lib.cam.ac.uk/?p=3494>

# RIGHTS RETENTION



Full disclaimer: I love rights retention

- \* Institutional rights retention
- \* Funder-encouraged rights retention
- \* Author-led rights retention

All are great.

Giving exclusive rights over research to publishers is a bad thing & we should stop doing it.



# Plan S & Rights Retention

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[www.coalition-s.org/rights-retention-strategy](http://www.coalition-s.org/rights-retention-strategy)

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- Acceptance following peer review
- Author Accepted Manuscript (AAM)  
Upon publication, the author immediately deposits the AAM in an Open Access repository (zero embargo, CC BY licence)



## Managed by the publisher

- Licence to Publish
- Version of Record (VoR)

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Plan S

Making full and immediate Open Access a reality

# A background on copyright & research communications

- Open-access (OA) literature is digital, online, free of charge, and **free of most copyright and licensing restrictions**
- OA removes price barriers (licensing fees, pay-per-view fees)  
**AND** permission barriers (most copyright and licensing restrictions)
  - Here's how the Budapest Open Access Initiative (BOAI, 2002) put it:

“...By 'open access' to this literature, we mean its free availability on the public internet, permitting any users to read, download, copy, distribute, print, search, or link to the full texts of these articles, crawl them for indexing, pass them as data to software, or use them for any other lawful purpose, without financial, legal, or technical barriers other than those inseparable from gaining access to the internet itself. **The only constraint on reproduction and distribution, and the only role for copyright in this domain, should be to give authors control over the integrity of their work and the right to be properly acknowledged and cited.**”



Aileen Fyfe (@AileenFyfe on twitter)  
historian of academic publishing  
at University of St Andrews

- Journals pre-date the invention of copyright e.g. *Journal des sçavans* (1665) & *Philos. Trans. R. Soc.* (1665)
- Scholarly organisations such as The Royal Society were historically supportive of efforts to reprint, reuse and share research papers, so long as credit and priority were appropriately attributed. No payment was sought for re-use.
- The Royal Society only introduced copyright transfer forms to take copyright away from authors **in 1990**.
- Takeaways: (1) Publishers do not need full copyright transfer to publish research  
(2) Academic publishers only started grabbing copyright from authors between 1970-1999

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- ☐ None of the above

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Page 1 (of 4) of Elsevier’s  
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agreement.

<https://www.elsevier.com/about/policies/copyright>  
accessed 2021-07-06

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Page 1 (of 6) of Wiley's sample  
Copyright Transfer Agreement (CTA):  
<https://authorservices.wiley.com/asset/Copyright-Transfer-Agreement-Sample.pdf>

accessed 2021-07-06

Why fight a battle for rights?



# Copyright transfer helps enforce a scarcity of access

Copyright holding by publishers is not 'benign'

The American Psychological Association (APA) pay Digimarc to send out DMCA 'takedown notices' on their behalf, alleging copyright infringement. Lumen has records of over 12,600 notices sent on APA's behalf in the last six months

In the last six months, the number of Lumen-recorded (not all of them) takedown notices sent out are:

- >12,600 on behalf of the **American Psychological Association (APA)**
- >5,000 on behalf of **Oxford University Press (OUP)**
- >5,000 on behalf of **Cambridge University Press (CUP)**
- >3,500 on behalf of **Wiley**
- >1,500 on behalf of **Taylor & Francis**



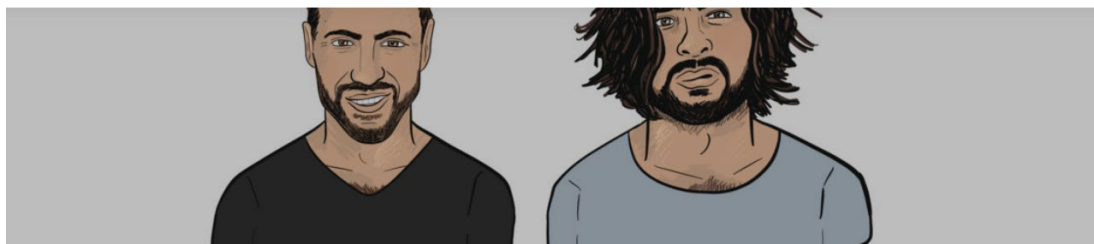
Data from: <https://www.lumendatabase.org/> (an Arcadia Fund grantee), as of 2021-07-06

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A lot of these are plagiarism which CC BY protects against

BUT... some authors unscrupulously use “all rights reserved” copyright as a means of impeding replication attempts



## 134: Paywalled questionnaires

Episode 134 · June 21st, 2021 · 56 mins 39 secs



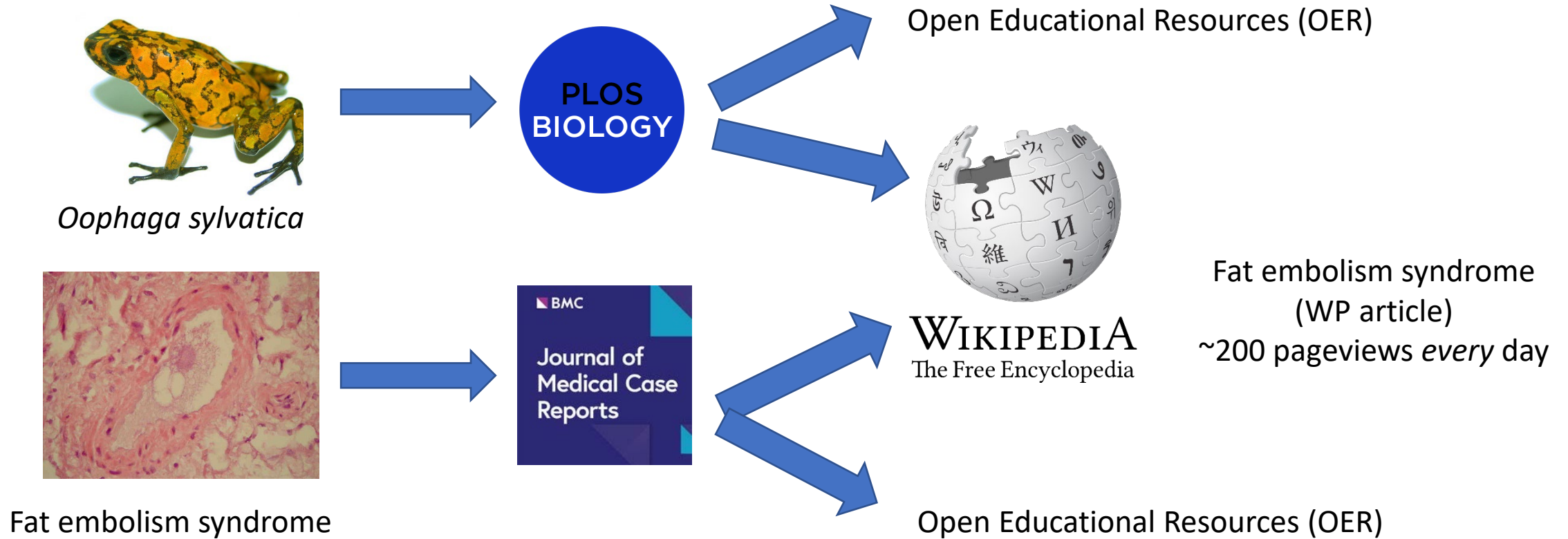
<https://everythinghertz.com/134>

[“Copyright claim prompts retraction of study on alexithymia in autism”](#) by Niko McCarty for Spectrum News 9<sup>th</sup> June 2021

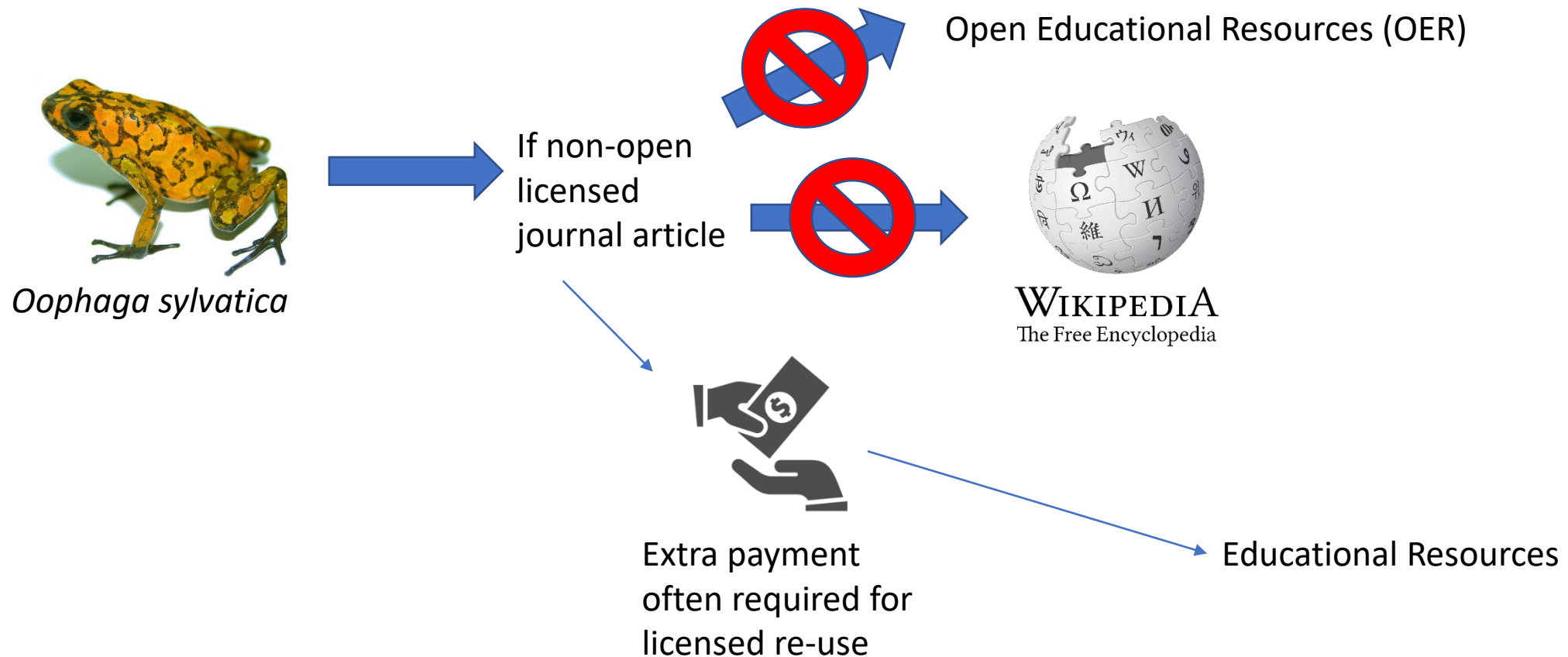
Data from the Retraction Watch Database: <http://retractiondatabase.org/>, as of 2021-07-12



# CC BY licensing enables frictionless re-use



# Non-open licensing makes re-use expensive and/or totally prevented





## On the Interpretations of Joint Modeling in Community Ecology

Author: Giovanni Poggiato, Tamara Münkemüller, Daria Bystrova, Julyan Arbel, James S. Clark, Wilfried Thuiller

Publication: Trends in Ecology & Evolution

Publisher: Elsevier

Date: May 2021

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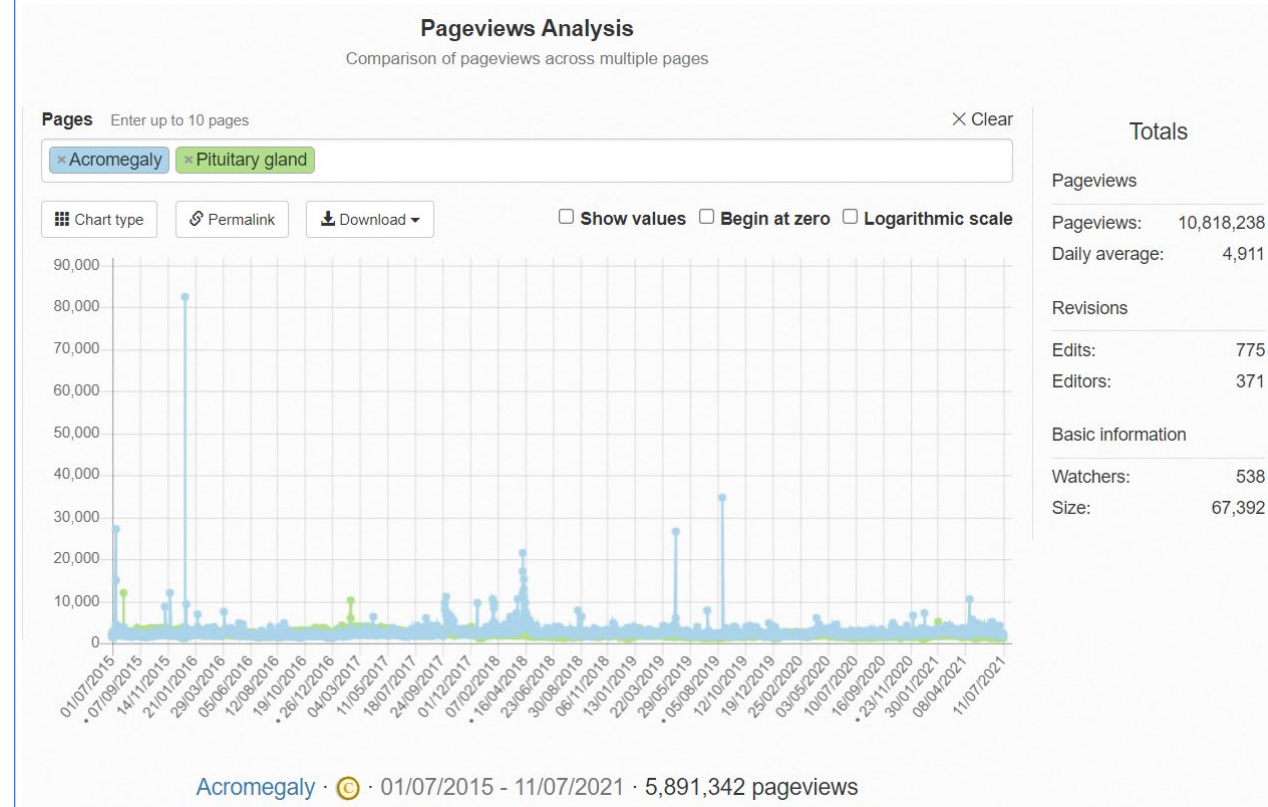
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## The indirect tradition of Paul of Aegina in Ioannes archiatus

[Barbara Zipser](#)

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### Abstract

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This paper explores the tradition from Paul of Aegina to both the original and vernacular version of Ioannes archiatus. Here, Theophanes Chrysobalantes (Nonnos) seems to have an intermediate position, but it is not entirely clear whether there were intermediary sources that are now lost. The analysis shows a considerable variance in the structure, content and style of the main chapter text, but a great similarity in the chapter headings. This indicates that the headings served as a grid in the evolution of new therapeutic texts. However, they were used in connection with the main chapter body rather than as a list of headings such as a pinax.

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# Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications

**A high-fidelity crystal-plasticity finite element methodology for low-cycle fatigue using automatic electron backscatter diffraction scan conversion: Application to hot-rolled cobalt–chromium alloy**

Yuhui Tu , Seán B Leen, Noel M Harrison

First Published May 11, 2021 | Research Article |

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The common approach to crystal-plasticity finite element modeling for load-bearing

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# A high-fidelity crystal-plasticity finite element methodology for low-cycle fatigue using automatic electron backscatter diffraction scan conversion: Application to hot-rolled cobalt–chromium alloy



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Author

Tu, Yuhui  
Leen, Sean B.  
Harrison, Noel M.

## Recommended Citation

Tu, Yuhui, Leen, Seán B., & Harrison, Noel M. (2021). A high-fidelity crystal-plasticity finite element methodology for low-cycle fatigue using automatic electron backscatter diffraction scan conversion: Application to hot-rolled cobalt–chromium alloy. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, doi:10.1177/14644207211010836

## Published Version

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## Abstract

The common approach to crystal-plasticity finite element modeling for load-bearing prediction of metallic structures involves the simulation of simplified grain morphology and substructure detail. This paper details a methodology for predicting the structure–property effect of as-manufactured microstructure, including true grain morphology and orientation, on cyclic plasticity, and fatigue crack initiation in biomedical-grade CoCr alloy. The methodology generates high-fidelity crystal-plasticity finite element models, by directly converting measured electron backscatter diffraction metal microstructure grain maps into finite element microstructural models, and thus captures essential grain definition for improved microstructure–property analyses. This electron backscatter diffraction-based method for crystal-plasticity finite element model generation is shown to give

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# A pan-cancer compendium of chromosomal instability

[Ruben M. Drews](#), [Barbara Hernando](#), [Maxime Tarabichi](#), [Kerstin Haase](#), [Tom Lesluyes](#), [Philip S. Smith](#), [Lena Morrill Gavarró](#), [Dominique-Laurent Couturier](#), [Lydia Liu](#), [Michael Schneider](#), [James D. Brenton](#), [Peter Van Loo](#), [Geoff Macintyre](#) ✉ & [Florian Markowetz](#) ✉

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## Abstract

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Chromosomal instability (CIN) results in the accumulation of large-scale losses, gains and rearrangements of DNA<sup>1</sup>. The broad genomic complexity caused by CIN is a hallmark of

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## A pan-cancer compendium of chromosomal instability

Ruben M. Drews,<sup>1</sup> Barbara Hernando,<sup>2</sup> Maxime Tarabichi,<sup>3,4</sup> Kerstin Haase,<sup>3,5</sup> Tom Lesluyes,<sup>3</sup> Philip S Smith,<sup>1</sup> Lena Morrill Gavarró,<sup>1</sup> Dominique-Laurent Couturier,<sup>1</sup> Lydia Liu,<sup>3,7</sup> Michael Schneider,<sup>1</sup> James D. Brenton,<sup>1,8,9</sup> Peter Van Loo,<sup>3</sup> Geoff Macintyre,<sup>1,2,\*#</sup> and Florian Markowetz<sup>1,\*#</sup>

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Article | [Published: 19 March 2021](#)

# ARID2 deficiency promotes tumor progression and is associated with higher sensitivity to chemotherapy in lung cancer

[Thaidy Moreno](#), [Beatriz Monterde](#), [Laura González-Silva](#), [Isabel Betancor-Fernández](#), [Carlos Revilla](#), [Antonio Agraz-Doblas](#), [Javier Freire](#), [Pablo Isidro](#), [Laura Quevedo](#), [Rosa Blanco](#), [Santiago Montes-Moreno](#), [Laura Cereceda](#), [Aurora Astudillo](#), [Berta Casar](#), [Piero Crespo](#), [Cristina Morales Torres](#), [Paola Scaffidi](#), [Javier Gómez-Román](#), [Eduardo Salido](#) & [Ignacio Varela](#)

[Oncogene](#) **40**, 2923–2935 (2021) | [Cite this article](#)

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## Abstract

The survival rate in lung cancer remains stubbornly low and there is an urgent need for the identification of new therapeutic targets. In the last decade, several members of the SWI/SNF

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## ***ARID2* deficiency promotes tumor progression and is associated with higher sensitivity to chemotherapy in lung cancer**

Thaidy Moreno,<sup>1</sup> Beatriz Monterde,<sup>1</sup> Laura González-Silva,<sup>1</sup> Isabel Betancor-Fernández,<sup>2</sup> Carlos Revilla,<sup>1,†</sup> Antonio Agraz-Doblas,<sup>1</sup> Javier Freire,<sup>3</sup> Pablo Isidro,<sup>4</sup> Laura Quevedo,<sup>1</sup> Rosa Blanco,<sup>1</sup> Santiago Montes-Moreno,<sup>3</sup> Laura Cereceda,<sup>3</sup> Aurora Astudillo,<sup>4</sup> Berta Casar,<sup>1,6</sup> Piero Crespo,<sup>1,6</sup> Cristina Morales Torres,<sup>5</sup> Paola Scaffidi,<sup>5</sup> Javier Gomez-Roman,<sup>3</sup> Eduardo Salido,<sup>2</sup> and Ignacio Varela<sup>1,\*</sup>

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## The Origins of the Protein Spread in Parkinson's Disease

Roger A. Barker BA MBBS MRCP PhD

First published: 21 July 2021 | <https://doi.org/10.1002/mdc3.13314>

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PMCID: PMC8564822

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## The Origins of the Protein Spread in Parkinson's Disease

Roger A. Barker, BA MBBS MRCP PhD<sup>1</sup>

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Gajdusek DC. Hypothesis: interference with axonal transport of neurofilament as a common pathogenetic mechanism in certain diseases of the central nervous system. *N Engl J Med* 1985;312:714–719. [[Abstract](#)]

When I was a medical student, then a junior doctor, two papers struck me as being important even though I did not fully understand why. One was from a pioneer in prion diseases, Carlton Gajdusek, that hypothesized that all neurodegenerative disorders may have some common pathogenic basis.<sup>1</sup> The second paper by Tom Powell and Carl Pearson (who both taught me as an undergraduate) proposed that the pathology of Alzheimer's disease followed a pattern of linked pathways that suggested spread of disease from the nose through the transfer of some pathogenic species of protein synaptically.<sup>2</sup> Fast forward to 2008 and we have the paper that is



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## Neuropharmacology

Volume 197, 1 October 2021, 108727



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Invited review

# Optimising the energetic cost of the glutamatergic synapse

Jonathan Lezmy <sup>a, 1</sup>, Julia J. Harris <sup>b, 1</sup>, David Attwell <sup>a</sup>

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# Optimising the energetic cost of the glutamatergic synapse

Lezmy, J; Harris, JJ; Attwell, D; (2021) Optimising the energetic cost of the glutamatergic synapse. **Neuropharmacology** , 197 , Article 108727.

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## Abstract

As for electronic computation, neural information processing is energetically expensive. This is because information is coded in the brain as membrane voltage changes, which are generated largely by passive ion movements down electrochemical gradients, and these ion movements later need to be reversed by active ATP-dependent ion pumping. This article will review how much of the energetic cost of the brain reflects the activity of glutamatergic synapses, consider the relative amount of energy used pre- and postsynaptically, outline how evolution has energetically optimised synapse function by adjusting the presynaptic release probability and the postsynaptic number of glutamate receptors, and speculate on how energy use by synapses may be sensed and adjusted.

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Research Article


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James R. Welch 

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## ABSTRACT

Well-being is a heterogeneous idea with different meanings in different circumstances. In this article, I explore the concept of well-being from an ethnographic perspective. My aim is to show how the Indigenous group understand well-being and also certain modes of strife and inequality. I discuss different understandings of social wellness, in

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# A'uwẽ (Xavante) social constructions of well-being in Central Brazil

James R. Welch, PhD, Associate Researcher<sup>✉</sup>

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## Abstract

Well-being is a heterogeneous idea with inconsistent applicability to real-world circumstances. In this article, I explore A'uwẽ (Xavante) notions of social well-being from an ethnographic perspective. My data indicate many members of this





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# Target-Based Evaluation of “Drug-Like” Properties and Ligand Efficiencies

Paul D. Leeson\*, A. Patricia Bento, Anna Gaulton, Anne Hersey, Emma J. Manners, Chris J. Radoux, and Andrew R. Leach

✓ Cite this: *J. Med. Chem.* 2021, 64, 11, 7210–7230

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## Abstract

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EMSID: EMS123358

PMID: 33983732

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# Target-based evaluation of 'drug-like' properties and ligand efficiencies

Paul D. Leeson,<sup>1</sup> A. Patricia Bento,<sup>2</sup> Anna Gaulton,<sup>2</sup> Anne Hersey,<sup>2</sup> Emma J. Manners,<sup>2</sup> Chris J. Radoux,<sup>2</sup> and Andrew R. Leach<sup>2</sup>

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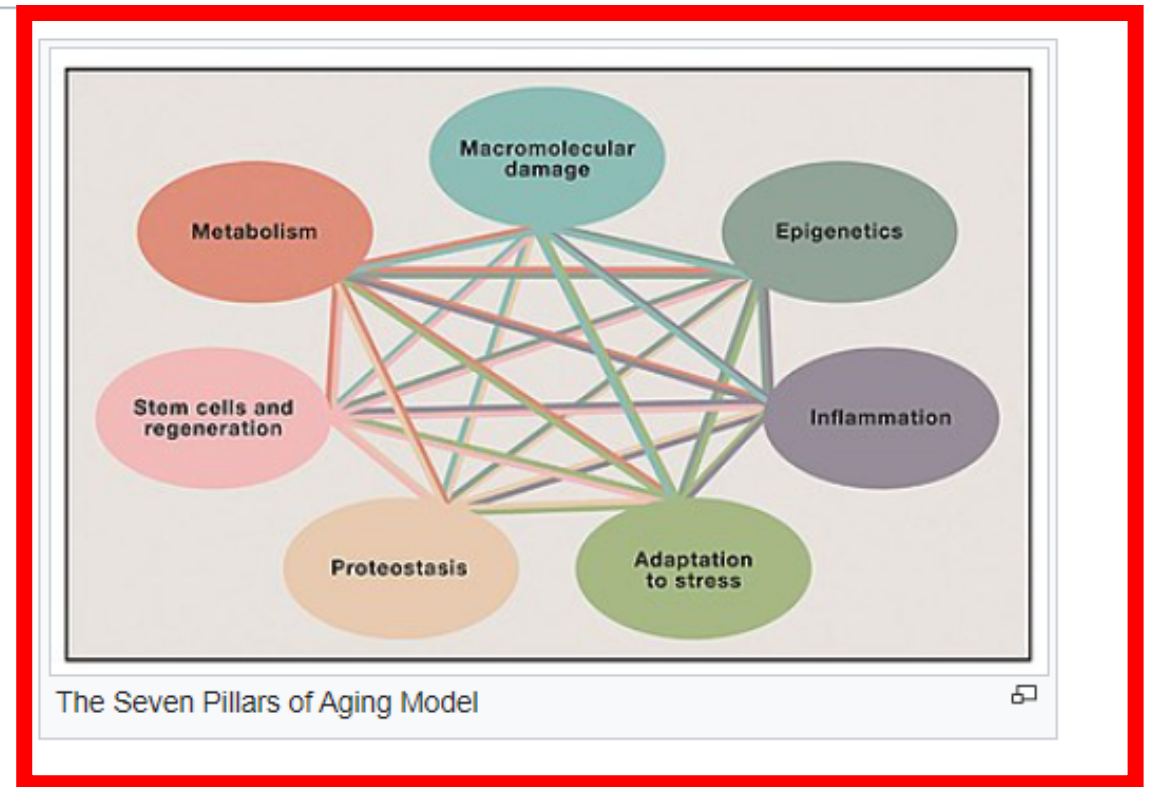
Other scientists have defined a slightly different conceptual model for aging, called 'The Seven Pillars of Aging', in which just three of the 'hallmarks of aging' are included (stem cells and regeneration, proteostasis, epigenetics).<sup>[48]</sup> The seven pillars model highlights the interconnectedness between all of the seven pillars which is not highlighted in the nine hallmarks of aging model.<sup>[49]</sup>

## Links to other diseases or hallmarks [\[ edit \]](#)

Authors of the original paper merged or linked various [hallmarks of cancer](#) with those of aging.<sup>[50]</sup>

The authors also concluded that the hallmarks are not only interconnected among each other but also "to the recently proposed [hallmarks of health](#), which include organizational features of spatial compartmentalization, maintenance of [homeostasis](#), and adequate responses to stress".<sup>[2][51]</sup>

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## Ageing Research Reviews

Volume 70, September 2021, 101407



Review

# The hoverfly and the wasp: A critique of the hallmarks of aging as a paradigm

David Gems <sup>a</sup> , João Pedro de Magalhães <sup>b</sup>

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### Highlights

- "The hallmarks of aging" is the most highly cited article in aging research.

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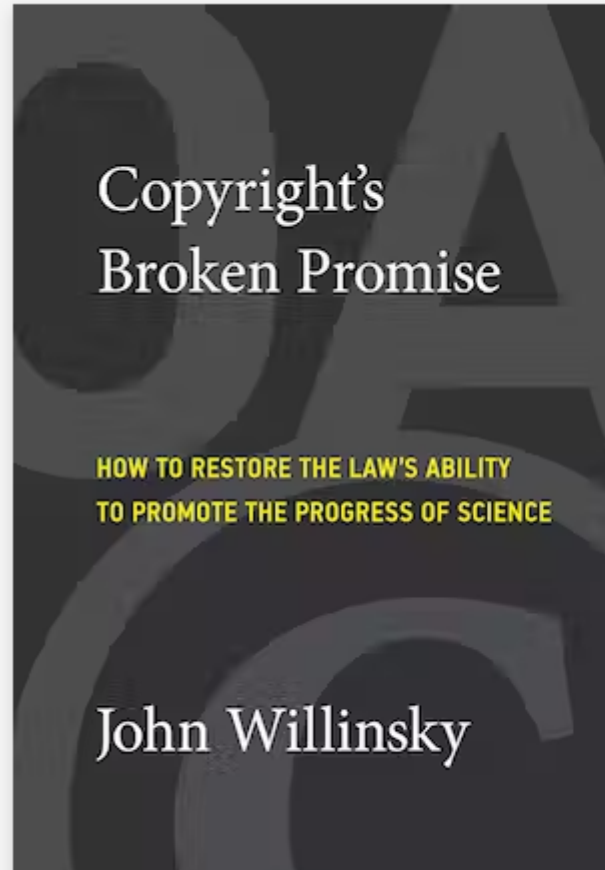
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# Future Directions



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By John Willinsky

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Willinsky presents the case for reforming copyright law so that it supports, rather than impedes, public access to research and scholarship.

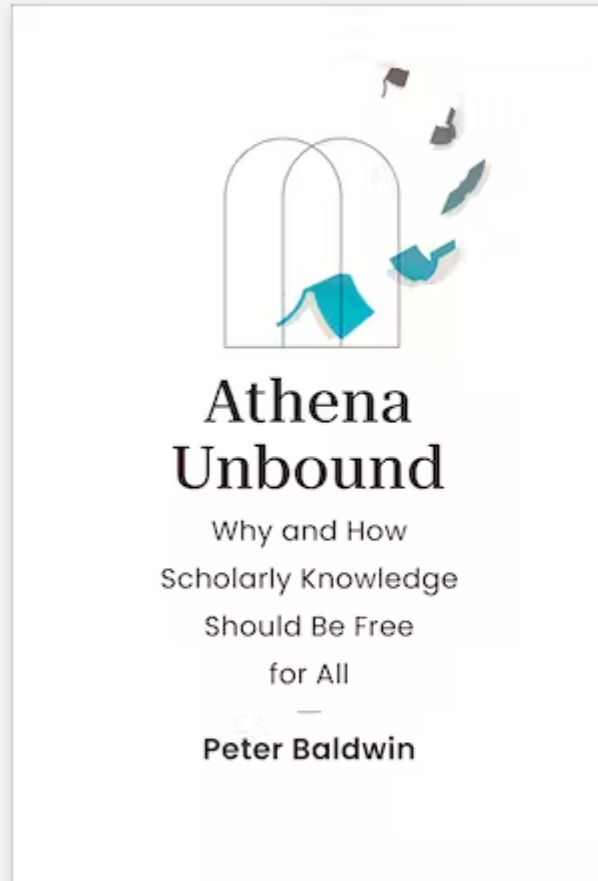
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# Athena Unbound

Why and How Scholarly Knowledge Should Be Free for All

By Peter Baldwin

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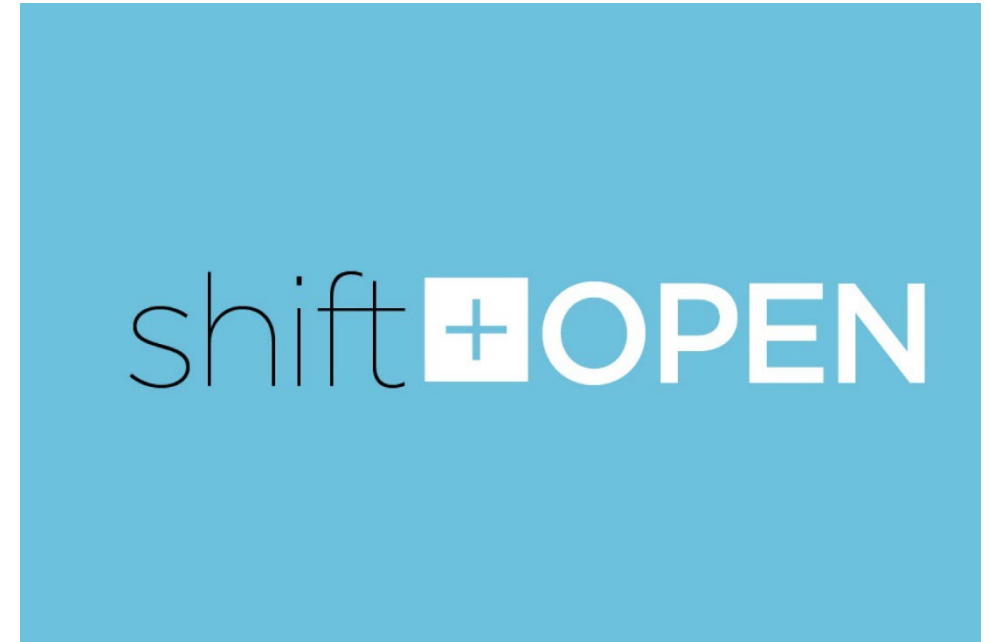
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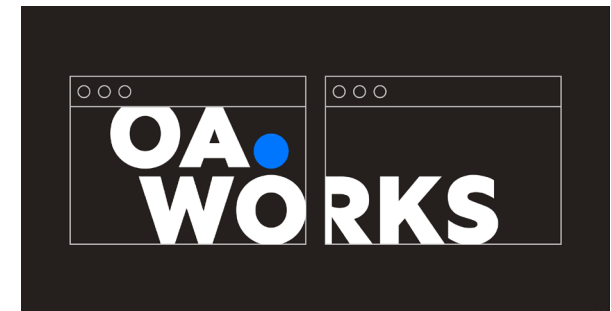
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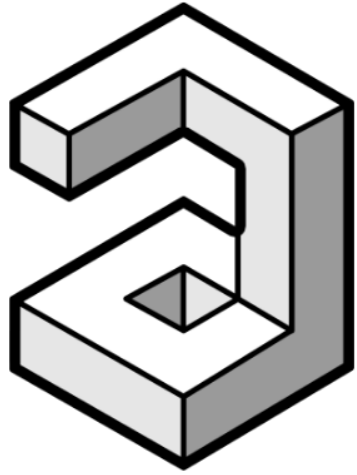
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