



What is open access?

'Open access' refers to peer-reviewed, full-text research articles that have been accepted for publication and are available:



on demand online

to read without charge to end users

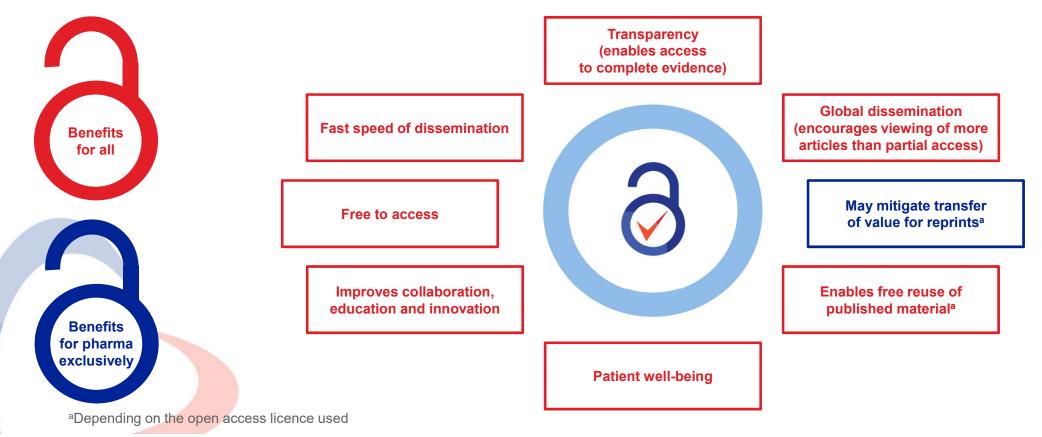


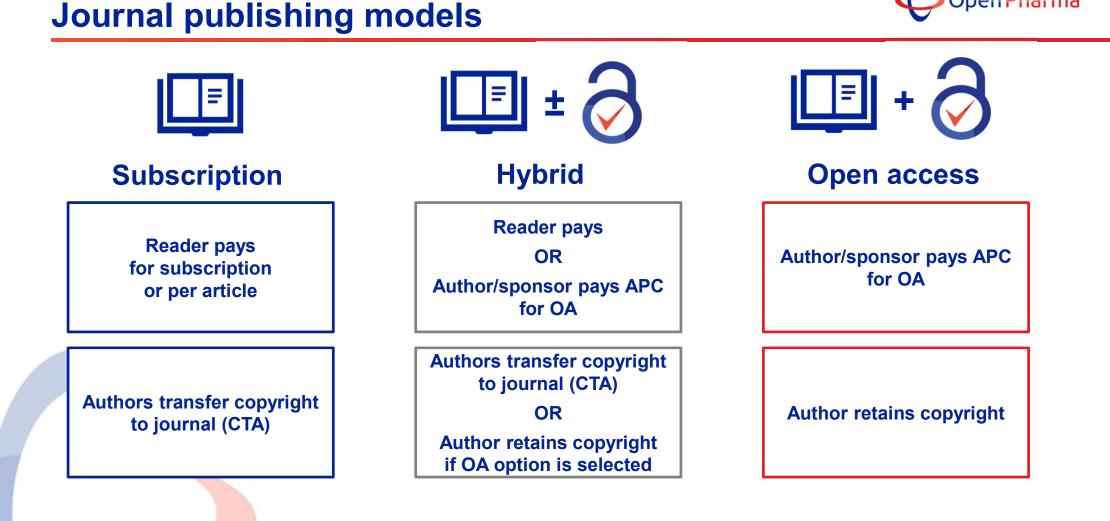
There are varying **restrictions on reuse** of article content as specified by the copyright licence used, and the debate as to how open access should be best defined is ongoing

What is the objective and benefits of open access publishing?



To make all scientific research content available to anyone, anywhere in the world, to **read**, **share**, **reuse** and **build upon**





APC, article processing charge; CTA, copyright transfer agreement; OA, open access

pen Pharma



What open access options exist for authors?

Go		
		/ – \

Where? Available on the publisher's website (only full open access or hybrid journals)

Which article version? Published version of record

When? Available immediately upon publication

Cost? APC (usually \$3000-5000)

Licence? Creative Commons licence (e.g. CC BY, CC BY-NC, CC BY-NC-ND)

Green OA

Where? Available on an online repository other than the publisher's website (e.g. PubMed Central)

Which article version? Accepted or version of record

When? Available after embargo period (i.e. 0, 6 or 12 months)

Cost? Free

Licence? Standard CTA or ELA

Bronze OA

Bronze OA was coined in a study by Piwowar *et al.*¹ in 2018 to mean free to read on the publisher's webpage but without a licence permitting free reuse of content

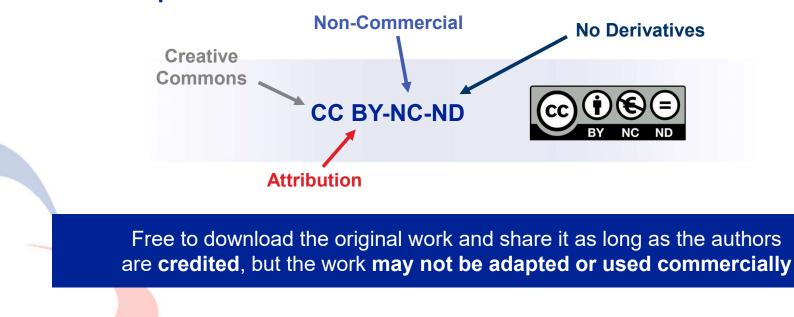
APC, article processing charge; BY, Attribution; CTA, copyright transfer agreement; ELA, exclusive licence agreement; NC, NonCommercial; ND, NoDerivs; OA, open access

1. Piwowar H *et al. PeerJ* 6:e4375; doi: 10.7717/peerj.4375



Creative Commons licence deconstructed¹

- With Gold OA, the author pays an APC to retain copyright of their article under the terms of a particular Creative Commons licence
- Some Creative Commons licences allow more sharing and reuse than others



Example

APC, article processing charge; BY, Attribution; CC, Creative Commons; NC, NonCommercial; ND, NoDerivs; OA, open access 1. https://creativecommons.org/licenses/



Creative Commons licences¹

CC BY-NC-ND		Free to download the original work and share it as long as the authors are credited , but the work may not be adapted or used commercially		
CC BY-NC	EV NC	Free to adapt the original work non-commercially and, although derivative work must also acknowledge the authors and be non-commercial, they don't have to be licensed on the same terms		
CC BY-ND	EY ND	Free to redistribute the original work, commercially or non-commercially, provided it is passed along unchanged and in whole, and the authors are credited		
CC BY	CC O	Free to distribute and adapt the original work, even commercially , as long as the original creation and authors are credited		
CC BY-SA	EY SA	Free to distribute and adapt the original work, even commercially , as long as the original creation and authors are credited and the new work is licensed under identical terms		
BY, Attribution; CC, Creative Commons; NC, NonCommercial; ND, NoDerivs; SA, ShareAlike				

1. https://creativecommons.org/licenses/



Open access guidance in the literature



3. https://openaccess.mpg.de/Berlin-Declaration: 4. http://legacy.earlham.edu/~peters/fos/bethesda.htm: 5. https://www.who.int/ictrp/results/reporting/en/



Open Pharma's open access aspiration

Ideally, all published medical research, regardless of its funding source, should be available online immediately upon publication without charge to the user so that the content can be read and reused by the medical and scientific community as well as patients^a

^aThis aspiration is in line with the terms of the CC BY and CC BY-NC licences

BY, Attribution; CC, Creative Commons; NC, NonCommercial



Are open access options always available?

- Pharma does not always have the same options as specific funders who have mandated gold OA¹
 - Some journals also indicate on their websites that the availability of green OA is limited to research funded by non-commercial organizations

Licence		Free to read?	Licence available to pharma?
CC BY	© () BY		Not frequently available in journals with a high impact factor ^{a1}
CC BY-ND		1	Unknown, less frequently observed in literature
CC BY-NC	EY NO		Yes, frequently
CC BY-NC-NE			Yes, frequently

^aIn an analysis by Ellison *et al.* of 21 journals with a high impact factor that offered the CC BY licence, only one potentially allowed this option to pharma BY, Attribution; CC, Creative Commons; NC, NonCommercial; ND, NonDerivs; OA, open access

1. Ellison T et al. BioRxiv [preprint]; 2018 bioRxiv 250613. Available from: https://www.biorxiv.org/content/early/2018/01/22/250613

How can some of the barriers to publishing open access be overcome?



Barriers

- The option to publish research OA is not always available to commercial research funders (e.g. OA under a CC BY licence is not always available for industry-sponsored publications)
- Many journals only allow articles to be made OA following an embargo period of up to 12 months after publication
- Cost of OA fees
- Requiring OA may restrict authors' choice of journal

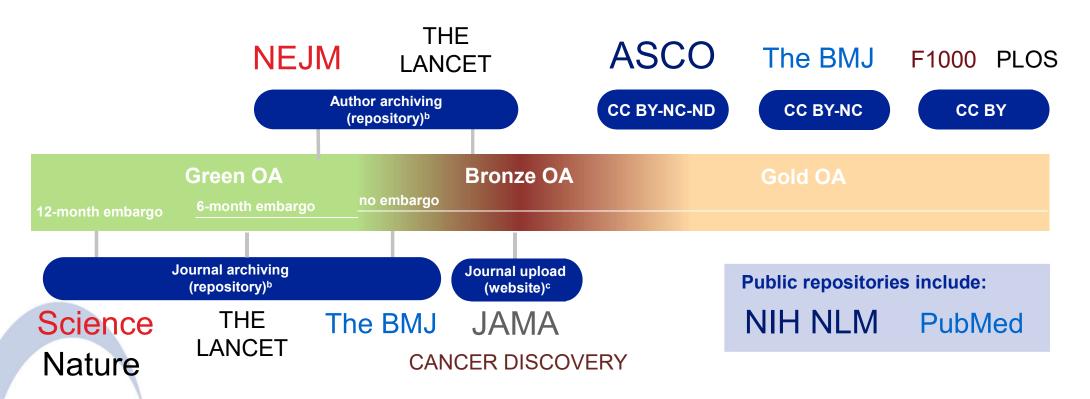
Steps to take

- Choose a journal that allows commercially funded research to be published OA
- Select the least restrictive OA licence available
- Choose a journal that makes articles OA immediately or with a minimal embargo period
- Calculate current OA costs and decide whether the current OA budget should be increased to pay for OA with a Creative Commons licence based on the potential increase in reach and impact of articles

Outcomes

- Guaranteed free-to-read publications
- Some published content can be **reused** without restrictions
- Publications available with a minimal embargo period
- Increased budget allocation for OA
- Increased access to research for the scientific and medical community as well as patients

Examples of typical OA options offered by journals^a



^aJournals can offer more than one type of option. The OA options listed here should be available for industry-funded research manuscripts

^bJournals specify whether articles can be archived by authors or the journal in either public repositories or on institutional websites and either with or without an embargo

^cFree to read on the publisher's webpage but without a licence permitting free reuse of content (e.g. JAMA Network Reader)

BY, Attribution; CC, Creative Commons; NC, NonCommercial; ND, NoDerivs; OA, open access

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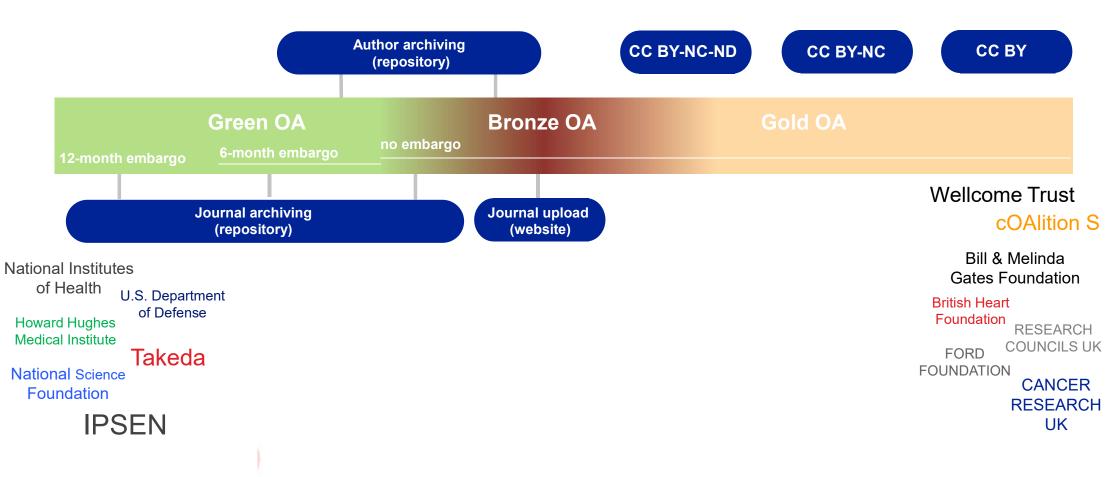
Funders moving towards open access

Governmental and charitable research funders are increasingly requiring or encouraging open access publishing under a CC BY licence; several funders require open access publishing with a maximum embargo period of 6 months	Other research funders are requiring authors to make research papers publicly accessible by no later than 12 months after publication ^a (CC BY licence not required)	
Bill & Melinda Gates Foundation Wellcome Trust	National Institutes Howard Hughes of Health Medical Institute	
Bloodwise RESEARCH COUNCILS UK	of Health Medical Institute	
PARKINSON'S CANCER RESEARCH UK ARTHRITIS Breast Cancer RESEARCH UK Now COAlition S	National Science Foundation Takeda	
British Heart European Commission Foundation Horizon 2020	U.S. Department of Defense	

^aSee <u>https://libraries.mit.edu/scholarly/research-funders/</u> for a list of major US research funder open access requirements BY, Attribution; CC, Creative Commons

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Open access requirements differ by research funder



BY, Attribution; CC, Creative Commons; NC, NonCommercial; ND, NoDerivs; OA, open access



cOAlition S and Plan S¹

After 1 January 2020, scientific publications on the results from research funded by public grants provided by national and European research councils and funding bodies must be published in **compliant** Open Access Journals or on compliant Open Access Platforms.

https://www.coalition-s.org/

Criteria for 'compliant' open access journals and platforms include the following

Scholarly content must be openly available immediately upon publication without any embargo period

The journal platform must enable authors to publish under a CC BY 4.0 licence

The 'hybrid' model of publishing is not compliant

BY, Attribution; CC, Creative Commons 1. https://www.ooalition-s.org/



What are pharma companies doing?

Takeda

IPSEN

GSK

Company policy¹ (effective from January 2018)

Shire Plc (now part of Takeda) implemented a policy requiring the submission of all Shire-supported research to journals that offer public availability via open access

Company policy² (effective from January 2019)

Ipsen implemented a policy requiring all Ipsen-affiliated research to be published open access, meaning articles will be openly accessible online and free of cost

Company position

GSK and other pharma companies strongly recommend that its funded research is published open access

1. https://www.shire.com/en/newsroom/2018/january/xajhds

2. <u>https://www.ipsen.com/ipsen-commits-to-making-all-its-published-scientific-research-freely-accessible-to-everyone/</u>

When publishing open access, watch out for predatory publishers



Alongside the many legitimate online-only open access journals that have sprung up in recent years, fraudulent 'predatory' journals have also been on the rise



A stated impact factor that isn't listed in the official Thomson Reuters list

Not indexed in repositories such as PubMed or Google Scholar

An abnormally short peer-review with no explanation for the speed



Tacky and unprofessional website design

The journal name does not fit with its stated mission

A non-institutional contact email (for instance@gmail.com)

Poor spelling or grammar on the journal website or in correspondence



Open access guidance for pharma

Clarify your meaning of open access – whether the publication is only free to read and whether any reuse rights exist

Educate internal teams and authors on issues and opportunities with open access

Understand the different licences and restrictions and **consider** including open access costs in the budget for publications work

Develop a company open access policy or position

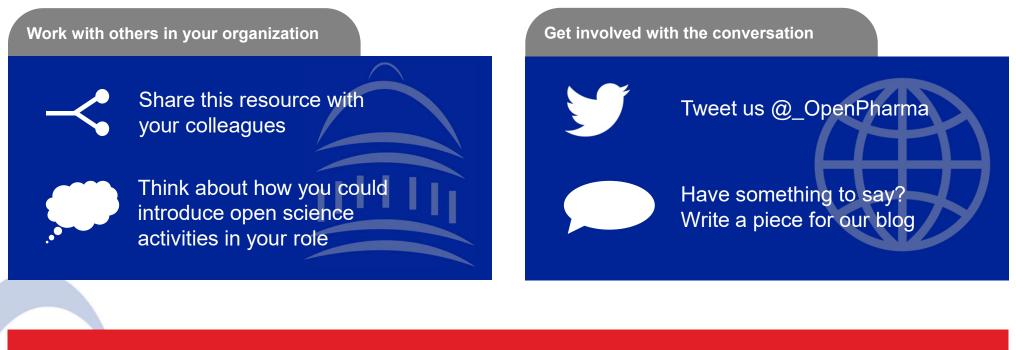


Resources

- Piwowar H et al. The state of OA: a large-scale analysis of the prevalence and impact of open access articles. PeerJ 2018;6:e4375; doi: 10.7717/peerj.4375
- Creative Commons. About the licences. Available at: <u>https://creativecommons.org/licenses/</u>
- Budapest Open Access Initiative: 10 recommendations. Available at: http://www.budapestopenaccessinitiative.org/boai-10-recommendations
- Open Access Scholarly Publishers Association: best practices in licensing and attribution. Available at: https://oaspa.org/best-practices-licensing-attribution-need-to-know/
- Berlin Declaration on Open Access. Available at: <u>https://openaccess.mpg.de/Berlin-Declaration</u>
- Bethesda Statement on Open Access Publishing. Available at: <u>http://legacy.earlham.edu/~peters/fos/bethesda.htm</u>
- WHO statement on public disclosure of clinical trial results. Available at: <u>https://www.who.int/ictrp/results/reporting/en</u>
- Ellison T *et al.* Open access policies of high impact medical journals: a cross-sectional study. BioRxiv [preprint]; 2018 bioRxiv 250613. Available from: <u>https://www.biorxiv.org/content/early/2018/01/22/250613</u>
- Scholarly Publishing MIT Libraries. Research funder requirements. Available at: <u>https://libraries.mit.edu/scholarly/research-funders/</u>
- Newsroom. Shire. Available at: https://www.shire.com/en/newsroom/2018/january/xajhds
- Ipsen commits to making all its published scientific research freely accessible to everyone. Available at: <u>https://www.ipsen.com/ips</u>
- Bill & Melinda Gates Foundation open access policy. Available at: https://www.gatesfoundation.org/How-We-Work/General-Information/Open-Access-Policy
- Wellcome Trust open access policy. Available at: <u>https://wellcome.ac.uk/funding/managing-grant/open-access-policy</u>
- Plan S Making full and immediate open access a reality. Available at: <u>https://www.coalition-s.org/</u>



Be an ambassador for open science!



If you enjoyed these materials and would like to see more on other topics, please let us know via the <u>Open Pharma contact page</u>