



# Open access publishing and open science – what is the role of medical libraries?

*EAHIL Workshop, Cardiff, July 12th 2018*

# Agenda

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- ▶ Brief introduction to open access and open science
- ▶ Open access services at ZB MED
- ▶ Discussion
- ▶ Backup slides: Sources of information or how to keep up to date?

# Open access – the official definition

- ▶ According to the Budapest Open Access Definition:

By “**open access**” to [**peer-reviewed research 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.**

# Open access Gold and Green: advantages/ disadvantages

## OA Gold

- Publication in an open access journal or in journals with an open access option (hybrid)
- Publication process is financed by publication fees (article processing charges – APCs)

- advantages (A)/  
disadvantages (D):
- article is accessible upon publication (A)
  - publication costs (D)

## OA Green

- Electronic self-archiving of already published articles
- Publication via an institutional or subject specific repository

- advantages (A)/ disadvantages (D):
- parallel publication (with effects on citation rate) (D)
  - embargo periods (D)
  - free of charge (A)
  - publishers usually give their consent (A)

# Open access Gold and Green: issues

## OA Gold

- Publication in an open access journal or in journals with an open access option (hybrid)
- Publication process is financed by publication fees (article processing charges – APCs)

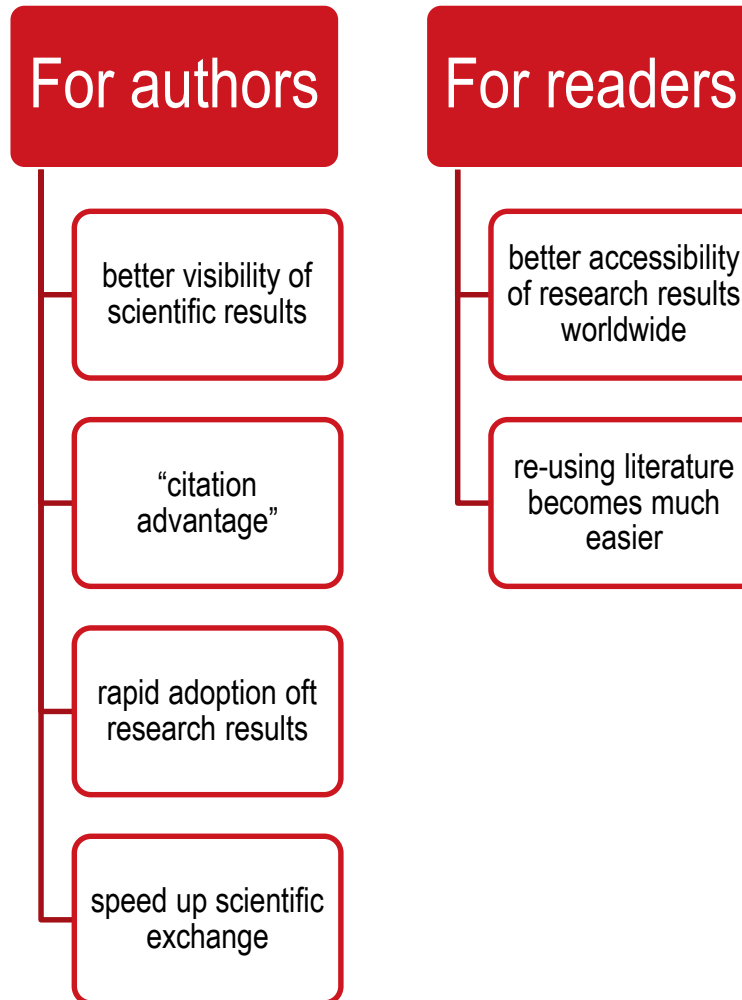
- pure open access vs. hybrid journals
- selection of appropriate journals
- predatory journals
- licencing
- financing of APCs
- Journal Impact Factor

## OA Green

- Electronic self-archiving of already published articles
- Publication via an institutional or subject specific repository

- deposit rights
- embargo periods
- preprints/ postprints: manuscript vs. publisher's PDF
- selecting a suitable repository

# Why OA?: advantages of open access



# Why OA?: „citation advantage“

Table 1 Research impact of paywalled (not OA) versus open access (OA) papers

Field	Paper (n)	Reference (n)	not OA (arc)	OA (arc)	gold (arc)	green (arc)
<b>TOTAL</b>	<b>3,350,910</b>	<b>34,865,430</b>	<b>0.81</b>	<b>1.23</b>	<b>1.06</b>	<b>1.28</b>
Agriculture, Fisheries & Forestry	138,025	804,386	0.85	1.18	0.73	1.35
Biology	151,424	1,882,514	0.74	1.17	1.33	1.18
Biomedical Research	291,325	5,581,332	0.80	1.14	1.16	1.09
Built Environment & Design	16,648	84,825	0.83	1.28	0.79	1.35
Chemistry	317,930	2,432,155	0.90	1.24	0.65	1.34
Clinical Medicine	823,924	9,323,440	0.81	1.28	1.25	1.28
Communication & Textual Studies	28,178	37,152	0.78	1.93	0.81	2.16
Earth & Environmental Sciences	117,429	1,332,707	0.82	1.16	0.82	1.20
Economics & Business	66,037	607,155	0.65	1.25	0.67	1.27
Enabling & Strategic Technologies	250,651	2,404,079	0.89	1.18	0.79	1.30
Engineering	193,856	1,029,715	0.85	1.25	0.86	1.36
General Arts, Humanities & Social Sciences	3,932	11,757	0.65	1.69	0.99	1.65
General Science & Technology	31,793	1,906,904	0.93	1.10	0.84	1.20
Historical Studies	25,468	50,016	0.80	1.58	0.68	1.91
Information & Communication Technologies	97,786	582,010	0.72	1.23	0.98	1.27
Mathematics & Statistics	107,426	558,567	0.78	1.14	1.12	1.22
Philosophy & Theology	17,117	28,107	0.70	1.74	0.76	1.98
Physics & Astronomy	424,091	3,954,894	0.75	1.27	0.92	1.34
Psychology & Cognitive Sciences	70,022	1,026,674	0.69	1.23	1.15	1.19
Public Health & Health Services	85,703	804,085	0.83	1.17	1.00	1.23
Social Sciences	86,513	421,516	0.69	1.49	0.89	1.63
Visual & Performing Arts	5,632	1,440	0.83	2.19	1.17	2.69

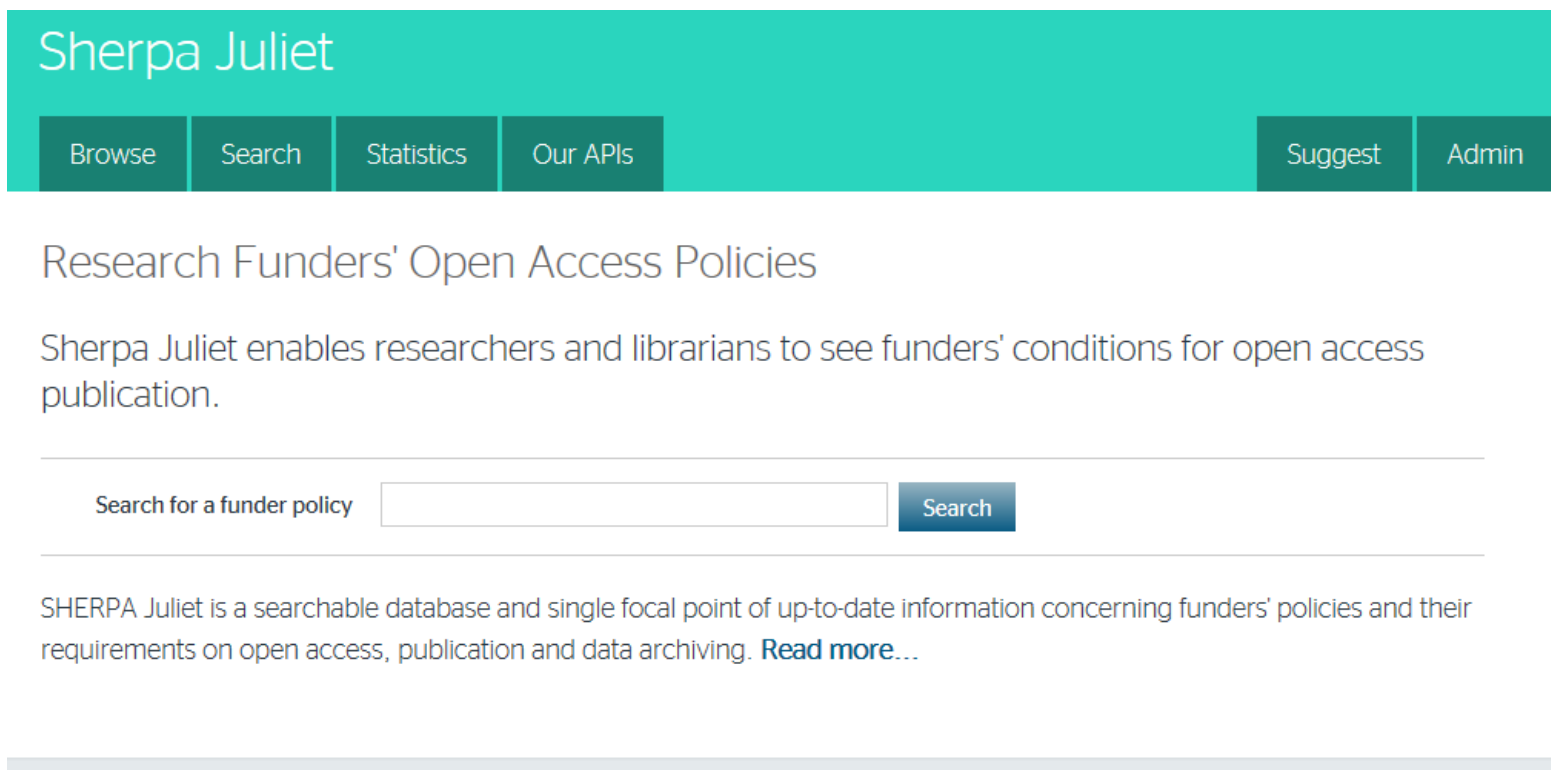
- data: 3.3 Mill. articles from Web of Science 2007-2009
- field normalised citation rate; > 1 = citation rate is above field average

Éric Archambault, Grégoire Côté, Brooke Struck and Matthieu Voorons: Research impact of paywalled versus open access papers: <https://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=1028&context=scholcom> (last access: June 25th, 2018)

Source: Computed by Science-Metrix and 1science using oalndx and the Web of Science

# Why OA?: mandates/ policies of funders

- ▶ SHERPA/JULIET: <http://www.sherpa.ac.uk/juliet/index.php>

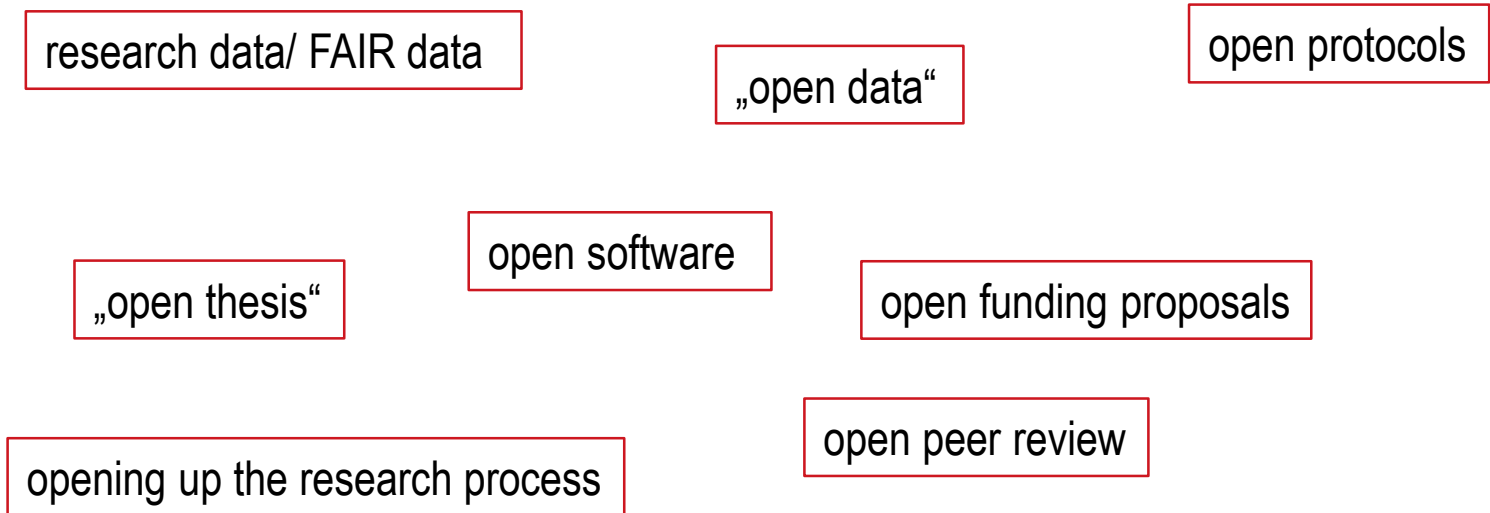


The screenshot shows the Sherpa Juliet website. At the top, there is a teal header with the text "Sherpa Juliet" in white. Below the header is a navigation bar with several buttons: "Browse", "Search", "Statistics", "Our APIs", "Suggest", and "Admin". The main content area has a white background and features the title "Research Funders' Open Access Policies" in a large, dark font. Below the title is a paragraph of text: "Sherpa Juliet enables researchers and librarians to see funders' conditions for open access publication." Underneath this text is a search bar with the placeholder text "Search for a funder policy" and a "Search" button. At the bottom of the main content area, there is another paragraph: "SHERPA Juliet is a searchable database and single focal point of up-to-date information concerning funders' policies and their requirements on open access, publication and data archiving. [Read more...](#)"



# Beyond open access: science 2.0 or open science

- ▶ Enlarge the idea of open access to the whole research cycle: e.g.



- ▶ strong push by European Commission (e.g. in initiatives such as the European Open Science Cloud)

# ZB MED – Information Centre for the Life Sciences

- ▶ German national library of medicine, health care, nutritional, environmental and agricultural sciences
- ▶ Service centre for research in the life sciences
  - advisory services
  - publication services
  - research support
  - application-oriented research
- ▶ publication portal PUBLISSO
- ▶ search portal LIVIVO

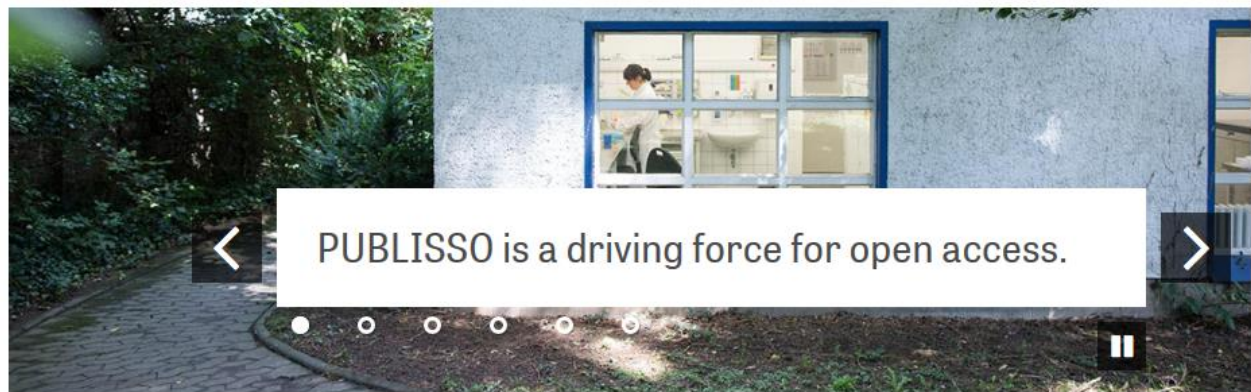


# Services for open access by ZB MED



PUBLISSO is an open access publishing platform for life sciences.

The website is aimed at all researchers working in the field of life sciences who wish to make their work and research data freely accessible through open access publishing. It also caters to anyone working in the field of information science. We offer advice and workshops on all aspects of open access (OA).

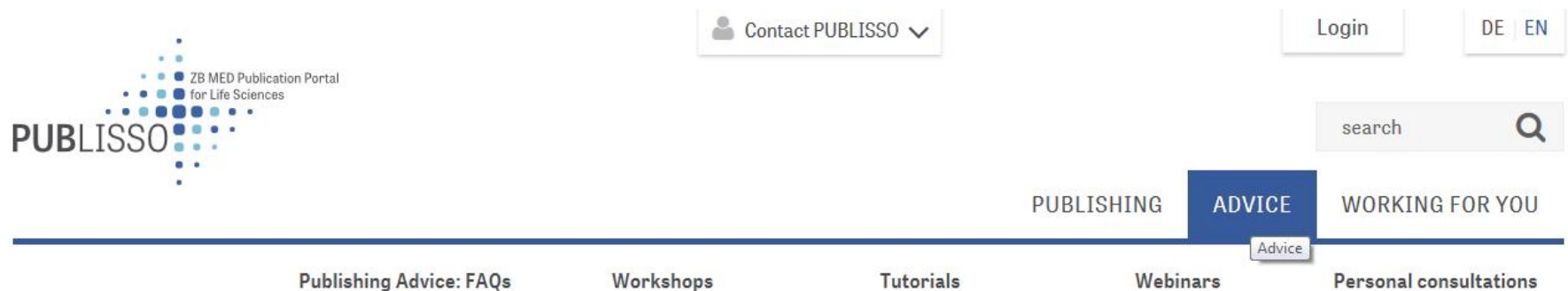


<https://www.publisso.de/en>

Services for the gold and green route to open access and for the publication of research data

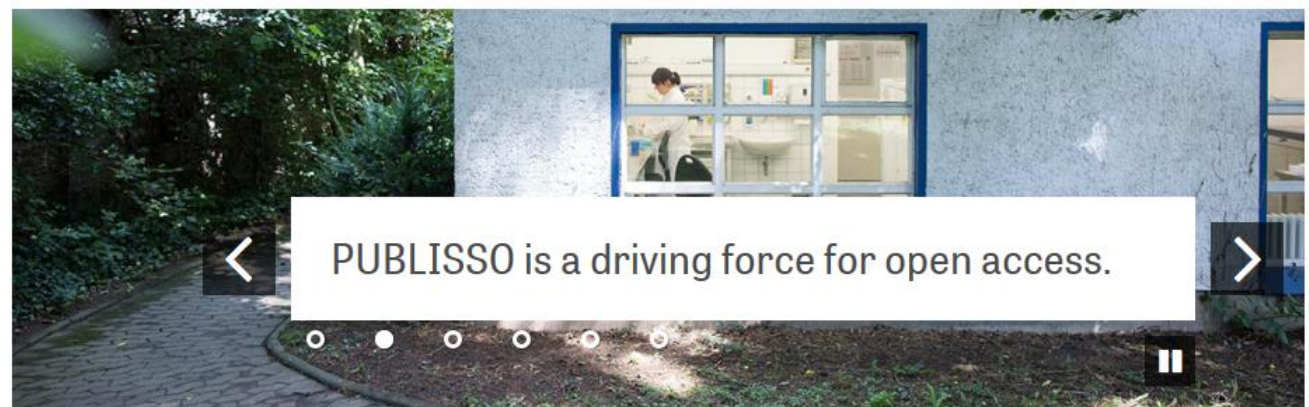
# Services for open access by ZB MED

## ▶ Advisory services



PUBLISSO is an open access publishing platform for life sciences.

The website is aimed at all researchers working in the field of life sciences who wish to make their work and research data freely accessible through open access publishing. It also caters to anyone working in the field of information science. We offer advice and workshops on all aspects of open access (OA).



<https://www.publisso.de/en>

# Discussion

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- ▶ Which services with regard to open access and open science does your institution already offer or are you planning to offer?



# Discussion

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- ▶ Which issues and questions related to open access do you encounter?



# Discussion

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- ▶ Which tools can either be used for personal information or for providing advice to researchers and other customers?



**For further information, please get in touch**

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# **Backup: Sources of information or how to keep up to date?**

# Backup: Sources of information or how to keep up to date?

- ▶ DOAJ: Directory of Open Access Journals: <https://doaj.org/>

The screenshot displays the DOAJ website interface. At the top, the logo reads "DOAJ DIRECTORY OF OPEN ACCESS JOURNALS" with a "SUPPORT DOAJ" button. Below the logo is a navigation bar with links: Home, Search, Browse Subjects, Apply, News, About, For Publishers, and API. The main content area features a search bar with options to "share | embed", "x 10", "order by ... relevance", and "search all". Below the search bar, there are filters for "Journals vs Articles" (Journals: 11678, Articles: 3147592), "Subject", "DOAJ Seal", "Journal license", "Publisher", and "Full Text language". The search results show three articles:

- Study progresses on continuous curvilinear capsulorhexis**  
Bo Gao, Mao-Lan Yang, Jiu-Min Yuan  
Guoji Yanke Zazhi. 2015;15(10):1737-1740 DOI 10.3980/j.issn.1672-5123.2015.10.16  
[Abstract](#) | [Full Text](#)
- Importância da vitamina B12 na avaliação clínica do paciente idoso = Importance of vitamin B12 screening in clinical evaluation of elderly patient**  
Futterleib, Alexandre, Cherubini, Karen  
Scientia Medica. 2005;15(1):74-78  
[Abstract](#) | [Full Text](#)
- Yellow and purple nutsedges survey in the southeastern Buenos Aires Province, Argentina**  
Eyherabide Juan José, Leaden María Inés, Alonso Sara  
Pesquisa Agropecuária Brasileira. 2001;36(1):205-209  
[Abstract](#) | [Full Text](#)

- ▶ alternative: searching the journal's website for oa options

# Backup: Sources of information or how to keep up to date?

## ► Quality Open Access Market – www.qoam.eu

Home About Journals My QOAM QOAMcorners Profiles Institutions Contact Log in Register

**Filter**

Search by journal title

Search by ISSN

Search by publisher

Search by discipline

**SWOT matrix**

Strong journals	Threat (to authors)
Opportunity (to publishers)	Weaker journals

Search

26124 OA and hybrid journals; *institutional discounts* Sort ▼

Title	Publisher	SWOT color	Base score	Valuation score
<a href="#">Sustainability</a>	MDPI	S	3,8	4,3
<a href="#">Sensors</a>	MDPI	S	3,6	4,2
<a href="#">Frontiers in Psychology</a>	Frontiers Media	S	3,6	4,0
<a href="#">International Journal of Molecular Sciences</a>	MDPI	S	3,2	4,2
<a href="#">Materials</a>	MDPI	S	3,6	4,2
<a href="#">Molecules</a>	MDPI	S	3,2	4,2
<a href="#">Energies</a>	MDPI	S	3,4	4,3
<a href="#">PLoS ONE</a>	plos	S	4,0	4,3
<a href="#">Water</a>	MDPI	S	3,4	4,5
<a href="#">Remote Sensing</a>	MDPI	S	3,3	4,2
<a href="#">Entropy</a>	MDPI	S	3,6	4,2
<a href="#">Frontiers in Microbiology</a>	Frontiers Media	S	3,4	4,3
<a href="#">PeerJ</a>	peerj	S	3,6	4,7
<a href="#">Hydrology and Earth System Sciences</a>	Copernicus Publications	S	3,5	4,6

# Backup: Sources of information or how to keep up to date?

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### NonCommercial (nc)

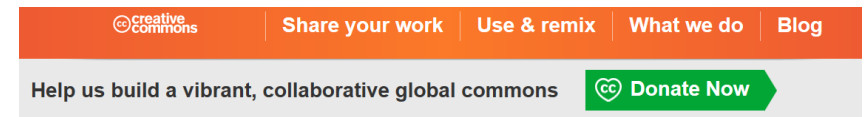
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### NoDerivatives (nd)

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<https://creativecommons.org/share-your-work/licensing-types-examples/>

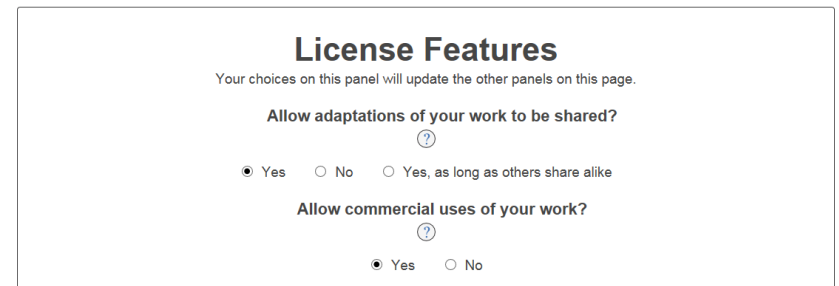
## Creative Commons licences



The header of the Creative Commons website features a navigation bar with the following items: the Creative Commons logo, "Share your work", "Use & remix", "What we do", and "Blog". Below the navigation bar is a banner with the text "Help us build a vibrant, collaborative global commons" and a green "Donate Now" button with the CC logo.

Creative Commons has updated its [Master Terms of Service](#) and [Master Privacy Policy](#), effective November 7, 2017. *Before continuing on our websites or using our services, please review.*

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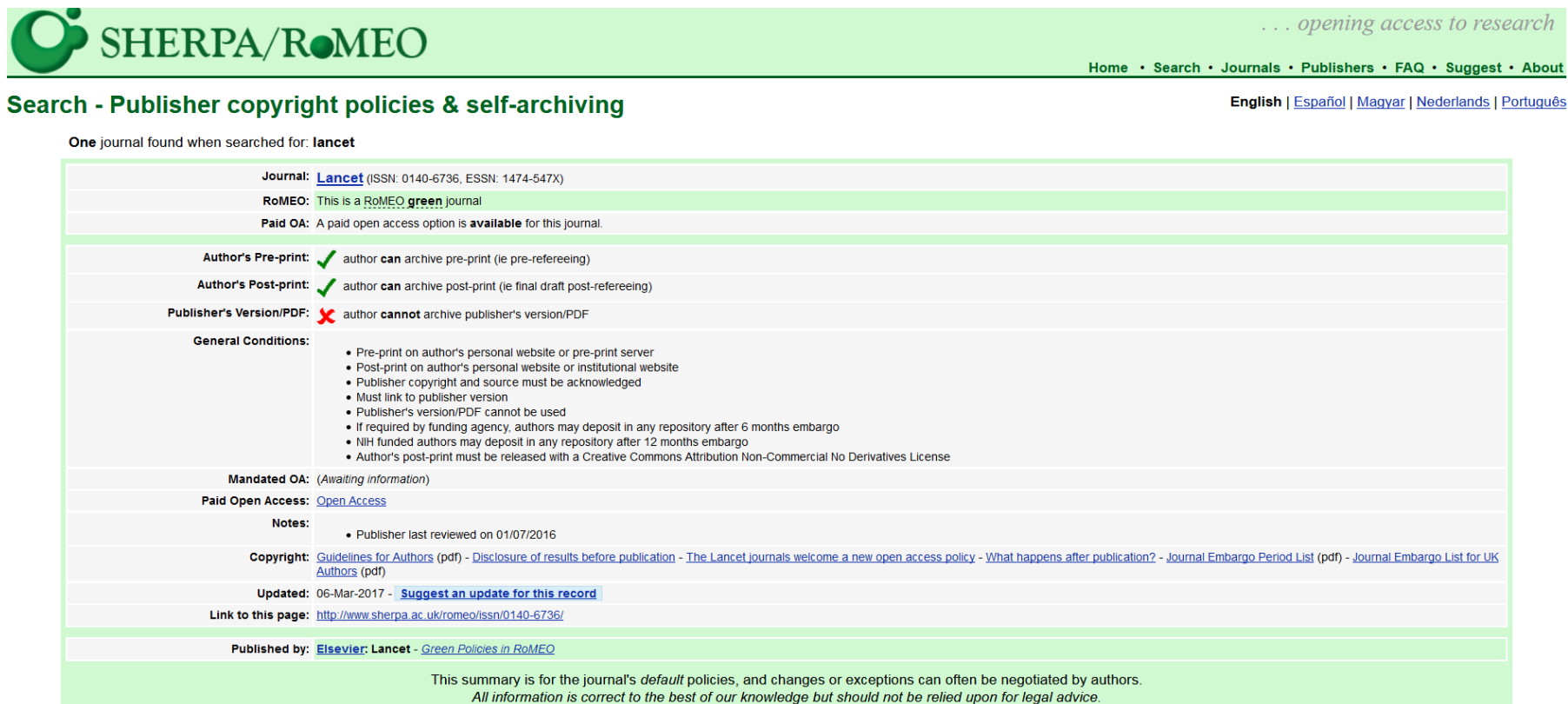
The "License Features" panel is titled "License Features" and includes the subtext "Your choices on this panel will update the other panels on this page." It contains two sections with radio button options:

- Allow adaptations of your work to be shared?**
  - Yes
  - No
  - Yes, as long as others share alike
- Allow commercial uses of your work?**
  - Yes
  - No

<https://creativecommons.org/choose/?lang=en>

# Backup: Sources of information or how to keep up to date?

► Sherpa/Romeo: [www.sherpa.ac.uk/romeo/search.php](http://www.sherpa.ac.uk/romeo/search.php)



The screenshot shows the Sherpa/Romeo website interface. At the top, there is a navigation bar with the SHERPA/ROMEIO logo on the left and the tagline "... opening access to research" on the right. Below the logo, the text "Search - Publisher copyright policies & self-archiving" is displayed. The main content area shows search results for the journal "Lancet".

Journal: [Lancet](#) (ISSN: 0140-6736, EISSN: 1474-547X)

RoMEO: This is a RoMEO **green** journal

Paid OA: A paid open access option is **available** for this journal.

**Author's Pre-print:** ✓ author **can** archive pre-print (ie pre-refereeing)

**Author's Post-print:** ✓ author **can** archive post-print (ie final draft post-refereeing)

**Publisher's Version/PDF:** ✗ author **cannot** archive publisher's version/PDF

**General Conditions:**

- Pre-print on author's personal website or pre-print server
- Post-print on author's personal website or institutional website
- Publisher copyright and source must be acknowledged
- Must link to publisher version
- Publisher's version/PDF cannot be used
- If required by funding agency, authors may deposit in any repository after 6 months embargo
- NIH funded authors may deposit in any repository after 12 months embargo
- Author's post-print must be released with a Creative Commons Attribution Non-Commercial No Derivatives License

**Mandated OA:** (Awaiting information)

**Paid Open Access:** [Open Access](#)

**Notes:**

- Publisher last reviewed on 01/07/2016

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**Updated:** 06-Mar-2017 - [Suggest an update for this record](#)

**Link to this page:** <http://www.sherpa.ac.uk/romeo/issn/0140-6736/>

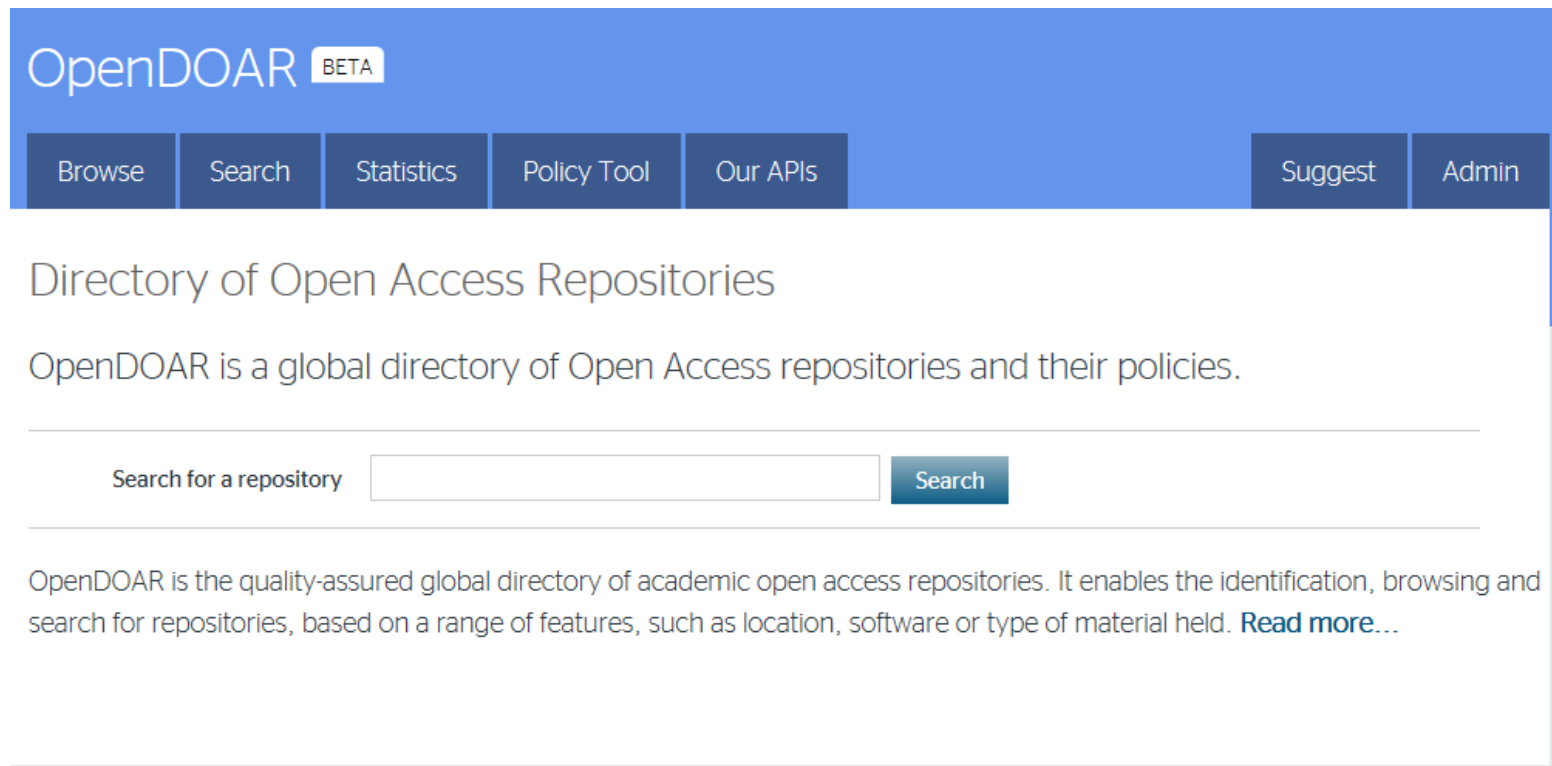
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# Backup: Sources of information or how to keep up to date?

- ▶ OpenDOAR: Directory of Open Access Repositories:  
<http://v2.opendoar.sherpa.ac.uk/>



The screenshot shows the OpenDOAR website interface. At the top, there is a blue header with the text "OpenDOAR" and a "BETA" badge. Below the header is a navigation bar with buttons for "Browse", "Search", "Statistics", "Policy Tool", "Our APIs", "Suggest", and "Admin". The main content area has the title "Directory of Open Access Repositories" and a subtitle "OpenDOAR is a global directory of Open Access repositories and their policies." Below this is a search bar with the placeholder text "Search for a repository" and a "Search" button. At the bottom, there is a paragraph of text: "OpenDOAR is the quality-assured global directory of academic open access repositories. It enables the identification, browsing and search for repositories, based on a range of features, such as location, software or type of material held. [Read more...](#)"

# Backup: Sources of information or how to keep up to date?

The screenshot shows the ANDS (Australian National Data Service) website. At the top, there is a navigation bar with links for 'About ANDS', 'Events', and 'Contact Us'. Below this is a search bar for 'Research Data' and another search bar for 'the ANDS'. The main navigation menu includes 'About us', 'News and Events', 'Partners and Communities', 'Working with data', and 'Online Services'. The 'Partners and Communities' menu is expanded, showing a list of items: '23 (research data) Things', 'Celebration', 'FAQs- 23 (research data) Things', 'Re-purpose toolkit', 'Resources', and '10 medical and health Things'. The '10 medical and health Things' item is selected, and a dropdown menu shows five sub-items: 'Medical & health Thing 1 Getting started with research data', 'Medical & health Thing 2 Issues in research data management', 'Medical & health Thing 3 Data sharing and discovery', 'Medical & health Thing 4 Sharing sensitive data', and 'Medical & health Thing 5 What are publishers and funders saying about data?'. The main content area displays the title '10 medical and health research data Things' and a social sharing bar with icons for Facebook, Twitter, LinkedIn, Google+, Reddit, Email, and Print. Below the sharing bar is a photograph of a person in a white lab coat typing on a laptop, with a clipboard, glasses, and a smartphone nearby. A caption 'Image: Pixabay (CC0)' is overlaid on the image.

<http://www.ands.org.au/partners-and-communities/23-research-data-things/10-medical-and-health-things>

# Backup: Sources of information or how to keep up to date?



**Walt at Random**  
The library voice of the radical middle.

Archive for the 'open access' Category

▶ <http://walt.lishost.org/category/open-access/>



# Backup: Sources of information or how to keep up to date?

The screenshot shows the TagTeam Open Access Tracking Project (OATP) interface. At the top, there is a navigation bar with 'TagTeam', 'About', and 'Hubs' links, and a 'Sign in' button. Below the navigation bar, the page title is 'Open Access Tracking Project (OATP)'. There are three buttons for RSS, ATOM, and JSON feeds. The main content area displays a list of items, with the first item being 'Research Data: What to keep? - Jisc'. The item has a URL, a date, and several tags: oa.new, oa.data, oa.preservation, oa.cloud, oa.reuse, oa.hei, oa.policies, oa.mandates, oa.policies.data, oa.mandates.data, oa.recommendations, oa.eosc, oa.costs, and oa.infrastructure. The second item is 'Open Access: Erfolg mit Schattenseiten | Telepolis', with a URL, a date, and tags: oa.new, oa.history\_of, oa.obstacles, oa.boai, oa.fees, oa.journals, oa.gold, oa.publishers, oa.economics\_of, oa.repositories, oa.green, oa.europe, and oa.german. The third item is 'Massive Bedenken gegen EU-Pläne für eine Urheberrechtsreform (Massive concerns about EU plans for copyright reform)', with a URL and a date. On the left side, there is a sidebar with navigation options: Inputs, Bookmarks, Remixes, Tags, Filters, History, About, and Contact. At the bottom of the sidebar, there is a search box with a 'Go' button.

▶ <http://tagteam.harvard.edu/hubs/oatp/items>