Open Access, Open Education, Open Minds

Lisa Goddard
Memorial University Libraries
edge 2010
October 13th, 2010
Outline

Open Education
- Open Course Ware
- Open Text Books
- Open Educational Resources

Open Access
- Philosophy
- Content
- Engagement
- Funding
- Rights

- Open Access Journals/Books
- Research Repositories
- Open Data
Open Educational Resources
Learning is Sharing

Open Educational Resources are all about sharing.
In a brave new world of learning, OER content is made free to use or share, and in some cases, to change and share again, made possible through licensing, so that both teachers and learners can share what they know.

Browse and search OER Commons to find curriculum, and tag, rate, and review it for others.

Use the Tutorials as a guide. Join and contribute to the global Open Education community.
# Learning Objects

## Materials Types

<table>
<thead>
<tr>
<th>Material Type</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activities &amp; Labs</td>
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<tr>
<td>Assessments</td>
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<tr>
<td>Audio Lectures</td>
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<tr>
<td>Curriculum Standards</td>
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<td>Discussion Forums</td>
<td>72</td>
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<td>Games</td>
<td>360</td>
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<tr>
<td>Homework &amp; Assignments</td>
<td>3000</td>
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<td>Lecture Notes</td>
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<td>Lesson Plans</td>
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<td>Other</td>
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## Course Related Materials (28092)

<table>
<thead>
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<tbody>
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<tr>
<td>Learning Module</td>
<td>24384</td>
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<tr>
<td>OpenCourseWare</td>
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## Libraries and Collections (2545)

<table>
<thead>
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<th>Material Type</th>
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<tr>
<td>Primary Source</td>
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<tr>
<td>Teaching &amp; Learning Strategies</td>
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</tr>
<tr>
<td>Other</td>
<td>191</td>
</tr>
</tbody>
</table>
Modular Content Builder – create custom course by plugging in peer-reviewed learning objects.
Multimedia support many learning styles.
Interactive

immediate feedback & assessment
Free for Use and Reuse

Jorum
Open
CC
Licenses
Collaborative Development

Peer-review, comments, corrections, additions = continuous improvement
Communities of Interest

April 2009

When first directed to the User page of Rima Al Eryani you will be taken by her exemplary use of colors and activities it becomes apparent that her passion for literacy, particularly in her home country of Yemen, is one to be cherished. Congratulations, Rima.

March 2009

Having a wealth of experience and exemplary credentials Dilip P. Barad, Ph.D has steadily increased his presence in the community. He is also an excellent ambassador for WikiEducator as he frequently speaks of the benefits of accessing and integrating additional resources into the learning environment. His excellent user page that showcases how text, photos and rich media can be used to portray information and attract learners is the March 2009 featured user page recipient.

February 2009

For someone whose first edit was November 06, 2008 and has quickly climbed to be one of the top 20 active users in the community, Robert H. Han is recognized as the February 2009 featured user page. Check out her user page, it's colorful and comprehensive and includes rich media and formatting for mathematics.
Open Course Ware
12.086 / 12.586 Modeling Environmental Complexity

As taught in: Fall 2008

Course Features

- Lecture notes
- Assignments (no solutions)

Course Description

This course provides an introduction to the study of environmental phenomena that exhibit both organized structure and wide variability—i.e., complexity. Through
OpenLearn website gives free access to Open University course materials. This is the LearningSpace, where you'll find hundreds of free study units, each with a discussion forum. Study independently at your own pace or join a group and use the free learning tools to work with others.

Topics
- Arts and Humanities
- Business and Management
- Childhood and Youth
- Computing and ICT
- Education
- Engineering and Technology
- Environment, Development and International Studies

Discuss
- Arts and Humanities forum
- Business and Management forum
- Childhood and Youth forum
- Computing and ICT forum
- Education forum
- Engineering and Technology forum
- Environment, Development and International Studies forum
## International OCW

### OPEN COURSEWARE WEBSITES

**Group by:** Language | Institution Name | Country

<table>
<thead>
<tr>
<th>Sites Grouped by Language</th>
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<tbody>
<tr>
<td><strong>Chinese - Simplified</strong></td>
</tr>
<tr>
<td>Associate Consortia</td>
</tr>
<tr>
<td>China Open Resources for Education (China)</td>
</tr>
<tr>
<td><strong>Chinese - Traditional</strong></td>
</tr>
<tr>
<td>Institutions of Higher Education</td>
</tr>
<tr>
<td>Fu Jen Catholic University (Taiwan)</td>
</tr>
<tr>
<td><strong>Dutch</strong></td>
</tr>
</tbody>
</table>

### Shortcuts
- What is OpenCourseWare?
- How To Join
- Members
- OpenCourseWare Websites
- Find Courses
- Toolkit
- Contact Us

### Sponsors

**HEWLETT FOUNDATION**

**Sustaining Members**
Open Text Books
Remixable textbooks by expert authors. Free online and affordable offline.

We preserve the best of the old — books by leading experts, peer-reviewed and developed to high editorial standards, fully supported by review copies, teaching supplements and great service. Then we change everything. Our textbooks are:

- Free online
- Affordable offline
- Open—licensed
- Customizable by educators

Educators choose the book — students choose format and price. Everybody wins.

View Our Catalog

Faculty, click to learn more.
Are you a student? Get more info.
Open Text Book
A registry of textbooks that anyone can access, reuse and redistribute

About

Open Text Book is a registry of textbooks (and related materials) which are open — that is free for anyone to use, reuse and redistribute. It is run by the Open Knowledge Foundation.

The domain name was kindly donated to us by Steve Coast of Open Street Map.

As of November 2009, Algot Runeman [email] has been selected as editor of the Open Text Book Registry. The registry is actively seeking textbooks for inclusion. Please leave comments to point us in the right direction or use the above email link. The registry is a participatory site. The authors of open textbooks may contact us, but we need the help of all of you out there to help gather the ones we don't know about.
Funding Models

On average every course we publish costs us about $10,000 to $15,000. (MIT OCW)
Rights

One of the most significant barriers to OER development is the need to obtain permission from the holders of the relevant intellectual property rights.

(Committee for Economic Development, 2009)
Faculty Engagement

The success of curricular resource strategies depends on faculty willingness to openly share their intellectual property by contributing it to open educational resource sites.

(Bell, 2010)
Open Access
A Quick Definition

“Open access is the principle that publicly funded research should be accessible online, for free, immediately after publication.”
University Environment

- Typically, when someone pays you to do work, copyright is transferred to the employer.

- Most universities have agreements stating that faculty own copyright in their scholarly works.
Publisher Agreements

- Academic authors traditionally transfer exclusive, full copyrights to the publishers of the journals in which their articles appear.

- Many disadvantages to this approach...
Subscribers Only

Physical Review Online Archive
PROLA

Citation Search: Phys. Rev. Lett.
Vol. [blank] Page/Article [blank] Go

PROLA » Authorization Required

Authorization Required

Individual Subscribers
Please log in with your APS Journals Account below.
Username: [blank]
Password: [blank]
Log in
Forgot your username/password?
Create an account

Institutional Subscribers
Please log in below if your institution has provided you with a username/password.
Username: [blank]
Password: [blank]
Log in
No Google
No Course Packs
No Course Websites
No Professional Websites

Academic C.V.

Milan Ilnickyj, B.A. (British Columbia), M.Phil (Oxford).

Email: milan.ilnickyj@wadh.oxon.org
C.V.: http://www.sindark.com/about-me/academic-cv/

Citizenship: Canadian

Academic and Professional Qualifications:

2005-2007
M.Phil in International Relations, Oxford University.
(Supervisor: Andrew Hurrell)

Distinctions earned in: quantitative methods (2005), history (2007),
and international law (2007).
Thesis: Expertise and Legitimacy: The Role of Science in Global
Environmental Policy-Making.
No Sharing with Colleagues

[cla-oa] Recognizing opportunities: conversational openings to promote positive scholarly communication change

cla-oa-bounce@freelists.org on behalf of Heather Morrison [heatharm@eln.bc.ca]

You forwarded this message on 2/11/2010 9:49 AM.
Extra line breaks in this message were removed.

Sent: Thu 2/11/2010 12:31 AM
To: cla-oa@freelists.org

Interesting article by Adrian Ho & Daniel Lee in the latest College & Research Libraries News:
http://crln.acrl.org/content/71/2/83.full

Heather Morrison
hmorris@sfu.ca
No Reuse

Table 1: Occupants and Nonoccupants Killed and Injured in Traffic Crashes

<table>
<thead>
<tr>
<th>Description</th>
<th>Killed</th>
<th>Injured</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2007</td>
<td>2008</td>
</tr>
<tr>
<td>Total *</td>
<td>41,259</td>
<td>31,761</td>
</tr>
<tr>
<td>Occupants</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Passenger Vehicles</td>
<td>23,972</td>
<td>25,361</td>
</tr>
<tr>
<td>Passenger Cars</td>
<td>15,614</td>
<td>14,847</td>
</tr>
<tr>
<td>Light Trucks</td>
<td>12,458</td>
<td>10,764</td>
</tr>
<tr>
<td>Large Trucks</td>
<td>805</td>
<td>677</td>
</tr>
<tr>
<td>Motorcycles</td>
<td>5,154</td>
<td>5,290</td>
</tr>
<tr>
<td>Nonoccupants</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pedestrians</td>
<td>4,699</td>
<td>4,328</td>
</tr>
<tr>
<td>Pedalcyclists</td>
<td>60</td>
<td>71</td>
</tr>
<tr>
<td>Other/Unknown</td>
<td>15</td>
<td>18</td>
</tr>
</tbody>
</table>

Source: Fatalities - FARS 2007 (Final), 2008 (Provisional); Injured - NASS GES 2007, 2008 Annual Files
* Total includes occupants at work and otherwise non-occupants not shown in table.
Changes in injury estimates shown in bold are statistically significant.
No Preservation Guarantee
No Mashups

Interactive map:
Originally in a static format, these moveable maps allow the reader to superimpose the data maps over geographical maps on Google, helping the reader to more quickly understand and evaluate the information in the wider context.
YOU may not have access
Traditional landscape

- Publicly funded projects
- Faculty time & expertise
- Rights given to publisher free of charge
- University pays to buy back access
Open Access Journals (Gold)

- Peer-reviewed, scientific and scholarly journals
- Author confers non-exclusive publication rights
- Author retains ownership/control
- 100% free full text access
Welcome to the Directory of Open Access Journals. This service covers free, full text, quality controlled scientific and scholarly journals. We aim to cover all subjects and languages. There are now 5511 journals in the directory. Currently 2347 journals are searchable at article level. As of today 459483 articles are included in the DOAJ service.

**OA-barometer 2009 published**: 20% of peer-reviewed articles across all disciplines are now freely available

Support the development and operation of DOAJ. Sign up for membership - go to the membership page. We are very thankful for the support from those of you who have already decided to become DOAJ members. See the list of members
Institutional Repositories (Green)

- Publish in a non OA journal
- Self-archive in an OA repository
- Preprints, postprints, or both
- Institutional or disciplinary
Directory of OA Repositories

OpenDOAR

The Directory of Open Access Repositories - OpenDOAR

Search for repositories | Search repository contents | List of repositories | Repository Statistics

OpenDOAR is an authoritative directory of academic open access repositories. Each OpenDOAR repository has been visited by project staff to check the information that is recorded here. This in-depth approach does not rely on automated analysis and gives a quality-controlled list of repositories.

As well as providing a simple repository list, OpenDOAR lets you search for repositories or search repository contents. Additionally, we provide tools and support to both repository administrators and service providers in sharing best practice and improving the quality of the repository infrastructure. Further explanation of these features is given in a project document Beyond the list.

The current directory lists repositories and allows breakdown and selection by a variety of criteria - see the Find page - which can also be viewed as statistical charts. The underlying database has been designed from the ground up to include in-depth information on each repository that can be used for search, analysis, or underpinning services like text-mining. The OpenDOAR service is being developed incrementally, developing the current service as new features are introduced. A list of Upgrades and Additions is available.

Developments will be of use both to users wishing to find original research papers and for service providers like search engines or alert services which need easy-to-use tools for developing tailored search services to suit specific user communities.
Who Pays?
OA Funding Strategies
Institutional Repositories

Memorial University Research Repository

Welcome to the Memorial University Research Repository Pilot Project

The Memorial University Research Repository is an initiative to showcase and preserve Memorial University's creative and intellectual output. Memorial University Libraries are committed to collecting and safeguarding the University's unique products including article pre-prints and post prints, finished data sets, conference papers, lectures, colloquia, presentations, reports, and performances. The repository will support faculty efforts to discover and communicate new knowledge, will improve the visibility of Memorial's research in the global arena, and will help our students and faculty to build impressive, lasting digital portfolios. All material submitted to the repository will be freely discoverable online through Google and other major search engines.

Latest Additions

View items added to the repository in the past week.

Search Repository

Search the repository using a full range of fields. Use the search field at the top of the page for a quick search.
Local Journal Hosting

- Open Journal Systems (OJS)
- open source online publishing platform
- submission management, correspondence, layout, long-term archiving
Analecta Hermeneutica is the annual refereed journal of the International Institute for Hermeneutics (IIH). It provides an intellectual forum for interdisciplinary, inter-religious, and international hermeneutic research. The journal publishes research in the form of articles, reviews, and other scholarly contributions in all hermeneutically related fields, with a particular focus on philosophy, theology, and comparative literature. We invite scholars from various linguistic communities to contribute innovative and critical articles to the hermeneutic conversation. Although the primary language of Analecta Hermeneutica is English, articles in German, French, Italian, and Spanish are welcome. They will be published accompanied by an English abstract. All submissions are subject to peer review.
Author Processing Charges

• For profit OA publishers

[PlüS PUBLIC LIBRARY of SCIENCE] [BioMed Central The Open Access Publisher]

• Author pays ~$1500 to publish
• Peer-reviewed, scholarly
• Free access
OA Author’s Fund

Open Access Authors Fund

The Open Access Authors Fund is designed to pay the fees charged by publishers for articles to be published in Open Access (OA) journals. These fees are often referred to as "author fees", "author payments", "open access charges", "article processing fees", or "submission fees" (there are a wide variety of terms).

The Open Access Authors Fund, the first of its kind in Canada, has $100,000 CAN. It began in fiscal year 2008/2009 and is a multi-year commitment. The fund is paid for by Libraries and Cultural Resources at the University of Calgary.

Application Procedure

Applicants should first read the criteria below and then complete the application form. Please also see the Frequently Asked Questions (FAQ).
Institutional Memberships

PLoS North American Institutional Members

PLoS thanks our Institutional Members for helping us in our effort to create a sustainable and comprehensive system of open-access publishing. This page contains a list of our North American Institutional Members with links to member Web sites.

To see Members from other countries, go to the main Institutional Members page. For more information about the program, see the Institutional Membership page. You can also find out about other ways you can support PLoS and the Open Access movement.

North American Members

Canada

Concordia University
Quebec, Canada
Funding Models

• Many models transfer the costs of scholarly publishing to the university.

• BUT we already pay, so it’s just a redirection of funds.
Rights Management Strategies
Lack of Copyright Knowledge

49% of authors have signed publishing agreements without understanding the terms.

- OAKLaw National Survey of Australian Academic Authors
Unsure of Depositing Rights

Over 50% of authors were unsure if they were allowed to self archive under past and recent publishing agreements.

- OAKLaw National Survey of Australian Academic Authors
Finding Publisher Policies

Use this site to find a summary of permissions that are normally given as part of each publisher's copyright transfer agreement.

Search

- Journal titles or ISSNs
- Publisher names

for

find contains or starts with or Exact phrase only ISSN

Show open access mandate compliance in results for:

No funders

Search Reset
Canadian Author Addendum

• Publishers require only permission to publish an article, not a wholesale transfer of copyright.

• Grant specific rights while holding back rights for yourself and others.

Creative Commons Licenses

- legally valid
- no charge
- prevents some uses of a work without permission, authorizes others.
Creative Commons Licenses

- Attribution
- Attribution Non-commercial
- Attribution No Derivatives
- Attribution Share Alike
Faculty Engagement
Collective Agreement

We will regard a record of open access publication as evidence of service to the community, in evaluation of applications for faculty appointments, promotions and grants.
Institutional OA Policies

• Collective, university-wide action.
• Faculty agreements to retain author rights, and allow open access to intellectual output.
Harvard goes Open Access
February 13, 2008

From Berkman Fellow Melanie Dulon de Rosnay...

Yesterday, Harvard University’s Faculty of Arts and Sciences (FAS) unanimously voted a motion on open access policy. FAS Faculty members now grant to the university a non-exclusive, irrevocable, worldwide license to distribute their scholarly articles, provided it is for non-commercial uses. An opt-out mechanism allow Faculty members to waive this mandatory assignment upon request for some articles, for instance in the case of incompatible rights assignment to a publisher...

This mandated permission to the university contrasts with other approaches to open access, such as:
- self-archiving mandate, or obligation for authors to deposit their articles in open access repositories (research funded by NIH in the US, European Research Council, Wellcome Trust deposit mandate in the UK)
- negotiation by individual authors, without the bargaining power of an institution, to retain some of their rights to reuse and archive pre-print and/or post-print, immediately or after an embargo period, through copyright addendum to be attached to publisher's copyright agreement, such as those proposed by Science Commons Scholar’s Copyright Addendum Engine, developed with SPARC and MIT,
- publication in open access journals, where authors' institutions often have to pay to be published (up to 3000$ per article), instead of the library having to pay a subscription to access to published articles.
MIT faculty open access to their scholarly articles

March 20, 2009

CAMBRIDGE, Mass., March 20 - In a move aimed at broadening access to MIT's research and scholarship, faculty at the Massachusetts Institute of Technology have voted to make their scholarly articles available to the public for free and open access on the Web.

The new policy, which was approved unanimously at an MIT faculty meeting on Wednesday, March 18 and took immediate effect, emphasizes MIT's commitment to disseminating the fruits of its research and scholarship as widely as possible.

"The vote is a signal to the world that we speak in a unified voice; that what we value is the free flow of ideas," said Bish Sinyal, chair of the MIT Faculty and the Ford International Professor of Urban Development and Planning.

Forget about batteries. The ability to harness electricity from tiny vibrations could power a new generation of electronic devices.
Concordia University

Senate Resolution on Open Access

(Approved April 16, 2010)

Whereas

Open access makes the results of publicly funded academic research and creative work accessible to everyone via the internet and succeeds by supplementing but not replacing peer-reviewed journals and other established publishing venues, and

whereas Concordia University wishes to take a leadership role in Canada and exemplify social responsibility by supporting the principles of open access and has recently launched Spectrum, an open access repository freely available to receive the refereed academic research output and creative work voluntarily deposited by Concordia faculty
Overview

The NIH Public Access Policy ensures that the public has access to the published results of NIH funded research. It requires scientists to submit final peer-reviewed journal manuscripts that arise from NIH funds to the digital archive PubMed Central upon acceptance for publication. To help advance science and improve human health, the policy requires that these papers are accessible to the public on PubMed Central no later than 12 months after publication.

How to Comply

All of your papers that fall under the NIH Public Access Policy, whether in press or in print, must include evidence of compliance in all of your NIH applications and reports.

1. **Determine Applicability**
   Does the NIH Public Access Policy apply to your paper?

2. **Address Copyright**
   Ensure your publishing agreement allows the paper to be posted to PubMed Central in accordance with the NIH Public Access Policy.

3. **Submit Paper**
   Submit papers to PubMed Central and eproove public release.

4. **Include PMCID in Citations**
   Include the PMCID at the end of the full citation in your application or report.
PubMed Central (PMC) is the U.S. National Institutes of Health (NIH) free digital archive of biomedical and life sciences journal literature.

Receive notice of new journals and other major updates to PMC: join the PMC News mail list or subscribe to the PMC News RSS feed.

All the articles in PMC are free (sometimes on a delayed basis). Some journals go beyond free, to Open Access. Find out what that means.

PMC’s utilities include an OAI service that provides XML of the full-text of some articles, functions for scripting PMC searches and linking to specific PMC articles from your site, and more...

The PMC journal list comprises journals that deposit material in PMC on a routine basis and generally make all their published articles available here. Find out how to include your journal in PMC.

PMC also has the author manuscripts of articles published by NIH-funded researchers in various non-PMC journals. Increasing free access to these articles is the goal of the NIH Public Access policy. Similar manuscripts from researchers funded by the Wellcome Trust are available in PMC as well.
## Funding agency requirements

### Research funders' open access policies

Use this page to find a summary of policies given by various research funders as part of their grant awards. Information about JULIET, and the breakdown of funders' policies is given in the Key below the table. Please use our Notification Form to submit details of new policies.

<table>
<thead>
<tr>
<th>Funding Organisation (linked to their JULIET summary)</th>
<th>Open Access Archiving</th>
<th>Open Access Publishing</th>
<th>Data Archiving Policy</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Académie suisse des sciences humaines et sociales (ASSH)</td>
<td>N</td>
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<td>N</td>
<td>Switzerland</td>
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<tr>
<td>Agence Nationale de la Recherche (ANR)</td>
<td>N</td>
<td>N</td>
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<td>France</td>
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<tr>
<td>Alliance canadienne pour la recherche sur le cancer du sein (ACRCS)</td>
<td>N</td>
<td>N</td>
<td></td>
<td>Canada</td>
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<td>Arthritis Research Campaign (arc)</td>
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<td>United Kingdom</td>
</tr>
<tr>
<td>Arts and Humanities Research Council (AHRC)</td>
<td>N</td>
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<td></td>
<td>United Kingdom</td>
</tr>
<tr>
<td>Australian Research Council (ARC)</td>
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<td>Australia</td>
</tr>
<tr>
<td>Austrian Science Fund</td>
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<tr>
<td>Autism Speaks</td>
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<td>N</td>
<td></td>
<td>United States</td>
</tr>
<tr>
<td>Biotechnology and Biological Sciences Research Council (BBSRC)</td>
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<td></td>
<td>United Kingdom</td>
</tr>
<tr>
<td>British Heart Foundation (BHF)</td>
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<td>N</td>
<td></td>
<td>United Kingdom</td>
</tr>
<tr>
<td>Canadian Breast Cancer Research Alliance (CBCRA)</td>
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<td></td>
<td>Canada</td>
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<td>Canadian Cancer Society (CCS)</td>
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</tr>
<tr>
<td>Canadian Health Services Research Foundation (CHSRF)</td>
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<td></td>
<td>Canada</td>
</tr>
<tr>
<td>Canadian Institutes of Health Research (CIHR)</td>
<td>N</td>
<td>N</td>
<td></td>
<td>Canada</td>
</tr>
</tbody>
</table>

- Federal agencies with extramural research expenditures of over $100,000,000
- Results from research supported, in whole or in part, by gov funding must be made freely available online
OA Success

- 20% of peer-reviewed articles across all disciplines are now freely available