



# Open Access: Resources for All Library Types

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Heather G. Morrison  
BC ELN / BCLA Information Policy Committee  
Beyond Hope Conference,  
Prince George, B.C. April 25, 2005



# Open Access: Resources for All Library Types

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- What open access is, & related trends
- The rapid growth of open access (what's happening)
- Resources for your library's users
- Roles for your library
  - Connecting users with resources
  - Searching, understanding & using the information
- More information



# What is open access?

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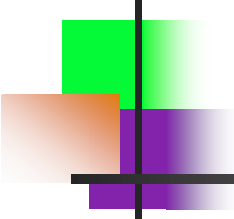
- Scholarly research articles freely available to anyone, anywhere
- Scholars write for impact, not money
- Two types: journals & archiving articles



# Open Access: related trends

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- Open access is scholarly journal articles freely available immediately
- Many related trends
- Free back issues of journals
- Free Digital collections
  - Academic, special, & public libraries
- Other types of material free on internet:
  - Consumer health
  - Government documents



# Why would my library's users want to read the scholarly literature anyway?

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Who is the public?

2001 Canadian Census - 15 & over:

- two thirds: high school grads
- almost half have some post-secondary credential - from trades to university
- 15%: bachelor's degree or higher
- 16% attending school full or part-time



# Scholarly research & the public

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- Astronomy & the amateur

2000: NASA High-Energy Astrophysics  
Workshop for Amateur Astronomers

[http://science.msfc.nasa.gov/headlines/y2000/ast21apr\\_1m.htm](http://science.msfc.nasa.gov/headlines/y2000/ast21apr_1m.htm)

- Lethbridge Astronomical Society

<http://www.lethbridgeastronomysociety.ca/>

- Members help with U of L astronomy labs
- Stargazer Newsletter - freely available at:

<http://www.lethbridgeastronomysociety.ca/stargazer.htm>

# Medical Research & the Public



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- Sharon Terry
  - Two kids: rare genetic illness, will be blind by thirties
  - From novice to researcher
- The Genetic Alliance
  - Founded by Sharon Terry
  - Umbrella organization for over 600 organizations serving people like Sharon & her family

<http://www.geneticalliance.org/>

- Human genome mapped



# U.S. National Library of Medicine

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- Medline Plus - consumer health resources  
<http://www.nlm.nih.gov/medlineplus/>
- PubMed (free Medline)  
<http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=PubMed>
- Index + some fulltext
- Fulltext is growing





# Why fulltext in PubMed is growing

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Medical funders support open access

- U.S. National Institute of Health: Public Access

<http://www.nih.gov/about/publicaccess>

- Wellcome Trust Position Statement in Support of Open Access

[http://www.wellcome.ac.uk/doc\\_WTD002766.html](http://www.wellcome.ac.uk/doc_WTD002766.html)

Publishers' free back issues

# Canadian Medical Association Journal

## About CMAJ

*CMAJ* is the leading health sciences journal in Canada. *CMAJ* is a general medical journal publishing original research and review articles, commentaries and editorials, practice updates, an arts and ideas section and health news. Published continuously since 1911, new issues are uploaded on e*CMAJ* every second Monday at 5 p.m. EST/EDT. e*CMAJ* contains the complete editorial contents of *CMAJ*, supplemented by a variety of interactive features and additional content.



*CMAJ* is an open and free access journal—there are no author or page charges and access is provided free on the WEB (HighWire Press), [www.cmaj.ca](http://www.cmaj.ca) without registration. e*CMAJ* has about 1 million requests and 250,000 downloads per month. The Journal is part of the PubMed Central collection of journals - [www.pubmedcentral.nih.gov](http://www.pubmedcentral.nih.gov) at the National Library of Medicine thus providing a guarantee of permanent archiving and open access. PubMed Central is now processing back issues of *CMAJ* to 1911.

*CMAJ*'s impact factor—a measure of the scientific importance of articles published—has tripled since 1997 and is now 4.8. The top 5 general medical journals ranked by impact factor are shown in the box. [The Annals of Internal Medicine is the top ranked internal medicine journal, Impact Factor 12.4.]

2003 Impact Factor	
New England Journal of Medicine	34.8
JAMA	21.5
The Lancet	18.3
BMJ	7.2
CMAJ	4.8

The Journal receives about 2000 manuscripts a year (including letters to the editor and news articles). *CMAJ*'s acceptance rate for unsolicited research and review articles is about 12%.

- Fully open access
- Now 5th general medical journal in world by impact factor
- No author charges

# How much open access is there?



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- Directory of Open Access Journals (DOAJ):
  - Fully open access & peer-reviewed
  - Vetted by librarian
  - over 1,500 journals
  - More than 1 journal per day added
- Highwire Free
  - over 850,000 free articles



# Key Resources: Collections & Web Links

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- Open Access Journal Collections (ELN):  
descriptions & web links

<http://www.eln.bc.ca/view.php?id=1129>

## **Bioline International**

<http://www.bioline.org.br/>

## **BioMedCentral**

<http://www.biomedcentral.com/browse/journals/>

## **Directory of Open Access Journals**

<http://www.doaj.org/>

**cont'd**



# Open Access Journal Collections Continued

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## **Highwire Press**

<http://highwire.stanford.edu/lists/freeart.dtl>

## **Medknow Publications**

<http://www.eln.bc.ca/view.php?id=1127>

## **PubMedCentral**

<http://www.pubmedcentral.nih.gov/>

## **Public Library of Science**

<http://www.plos.org/>

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Universidade de Santa Cruz do Sul
- [Memórias do Instituto Oswaldo Cruz](#) | [en](#)  
Fundação Oswaldo Cruz, Fiocruz

### CHILE

- [Agricultura Técnica](#) | [en](#) | [es](#)  
Instituto de Investigaciones Agropecuarias, INIA
- [Electronic Journal of Biotechnology](#) | [en](#)  
Universidad Católica de Valparaíso

### COLOMBIA

- [Revista Colombia Médica](#) | [en](#) | [es](#)  
Corporación Editora Médica del Valle

### INDIA

- [Indian Journal of Cancer](#) | [en](#)  
Medknow Publications on behalf of Indian Cancer Society
- [Indian Journal of Critical Care Medicine](#) | [en](#)  
Medknow Publications on behalf of the Indian Society of Critical Care Medicine
- [Indian Journal of Dermatology, Venereology and Leprology](#) | [en](#)  
Medknow Publications on behalf of The Indian Association

### KENYA

- [African Journal of Biotechnology](#) | [en](#)  
Academic Journals
- [African Journal of Food and Nutritional Security](#) | [en](#)  
Quest and Insight Publishers and Friends-of-the Book Foundation
- [The Journal of Food Technology in Africa](#) | [en](#)  
Innovative Institutional Communications

### MALAYSIA

- [Malaysian Journal of Medical Sciences](#) | [ms](#) | [en](#)  
School of Medical Sciences, Universiti Sains Malaysia

### NIGERIA

- [African Journal of Biomedical Research](#) | [en](#)  
Ibadan Biomedical Communications Group
- [African Journal of Reproductive Health](#) | [en](#)  
Women's Health and Action Research Centre
- [Annals of African Medicine](#) | [en](#)  
Usmanu Danfodiyo University Teaching Hospital, Sokoto and Annals of African Medicine Society
- [Biokemistri](#) | [en](#)  
Nigerian Society for Experimental Biology

Preview





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**A B C D E F G H I J K L M N O P Q R S T U V W X Y Z**

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  - [Annals of General Psychiatry](#) *all content Open Access*
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  - [Australia and New Zealand Health Policy](#) *all content Open Access*
- B**
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  - [BMC Clinical Pharmacology](#) *all content Open Access*
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51 journals added the last 30 days :

[Alea: Estudos Neolatinos](#)

**ISSN:** 1517106x

**Subject:** [Languages and Literatures](#) --- [Linguistics](#)

**Publisher:** Programa de Pos-Graduação em Letras Neolatinas, Faculdade de Letras -UFRJ

**Language:** Portuguese

**Keywords:** linguistics, literature

**Start Year:** 2003

[Baltica](#)

**ISSN:** 00673064

**Subject:** [Earth Sciences](#) --- [Environmental Sciences](#) --- [Geology](#) --- [Oceanography](#)

**Publisher:** Lithuanian Academy of Sciences, Institute of Geology and Geography

**Language:** English

**Keywords:** Quaternary geology, climate changes, ecosystems, palaeogeography, environmental geology, tectonics, sedimentology, surface processes, Baltic sea

**Start Year:** 2002

[Body, Space and Technology](#)

**ISSN:** 14709120

**Subject:** [Visual Arts](#)

**Publisher:** Brunel University, Department of Performing Arts

**Language:** English

**Keywords:** contemporary art, performance practice

**Start Year:** 2000

as of 4/11/05:

## Free Online Full-text Articles

(List limited to journals published online with the assistance of HighWire Press)

HighWire Press is the [largest archive](#) of free full-text science on Earth! As of 4/11/05, we are assisting in the online publication of **847,615 free full-text articles** and 2,208,056 total articles.

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<b>AAP Policy</b>		
	<i>free site</i>	
<b>Academic Medicine</b>	<b>all articles</b> 1 Jan 2000 - 31 Dec 2000	
<b>Advances in Dental Research</b>	<b>all articles</b> after 12 months	
	<i>free site</i>	
<b>Advances in Physiology Education</b>	<b>all articles</b> after 12 months	
<b>Advances in Psychiatric Treatment</b>	<b>all articles</b> after 24 months	
<b>Age and Ageing</b>	<b>all articles</b> after 18 months	
<b>Agronomy Journal</b>	<b>all articles</b> after 24 months	
<b>Alcohol and Alcoholism</b>		end date not decided
<b>American Association of Critical Care Nurses Journals</b>	<b>all articles</b> after 12 months	
<b>American Heart Association Journals</b>	<b>all articles</b> after 12 months	
<b>American Journal of Clinical Nutrition</b>		end date not decided
<b>American Journal of Critical Care</b>		until <b>31 Mar 2005</b>
<b>American Journal of Evaluation</b>	<b>all articles</b> after 24 months	
<b>American Journal of Geriatric Psychiatry</b>		until <b>30 Jun 2005</b>
<b>American Journal of Health-System Pharmacy</b>	<b>all articles</b> after 18 months	

## Medknow Publications

### Peer-reviewed open access journals

Indian Journal of Critical Care Medicine <http://www.ijccm.org>

Indian Journal of Dermatology, Venereology and Leprology <http://www.ijdvl.com>

Indian Journal of Gastroenterology <http://www.indianjgastro.com>

Indian Journal of Medical Microbiology <http://www.ijmm.org>

Indian Journal of Medical Sciences <http://www.indianjmedsci.org>

Indian Journal of Pediatrics <http://www.ijppediatricsindia.org>

Indian Journal of Pharmacology <http://www.ijp-online.com>

Indian Journal of Plastic Surgery <http://www.ijps.org>

Indian Journal of Surgery <http://www.indianjsurg.com>

Journal of Minimal Access Surgery <http://www.journalofmas.com>

Journal of Postgraduate Medicine <http://www.jpgmonline.com>

Neurology India <http://www.neurologyindia.com>

### Medknow Journals hosted at Bioline International (for MARC records, see Bioline)

Indian Journal of Cancer <http://www.bioline.org.br/cn>

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### Highlights of Current Issue [RSS](#)

Year 2005 | January-March | Volume 51 | Issue 1

#### From the pen to the patient: Minimising medication errors

Medication errors that lead to iatrogenic injuries are a well-known worldwide phenomenon and are common, costly, and clinically important.[1],[2] In 1910, Richard Clark published the first study that ...

[\[BRIEF\]](#) [\[FULL TEXT\]](#) [\[PDF\]](#)

#### Path of Progress: Report of an Eventful Year for the Journal of Postgraduate Medicine

The readers, contributors and reviewers make things happen for a journal and are primarily responsible for the progress of a journal. It is, therefore, desirable that editors provide a periodic review...

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### WHY PUBLISH WITH US

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- ✦ Quick review (average 26 days)
- ✦ Free full text access
- ✦ Immediate publication on acceptance [more...](#)



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- ISSN** retrieves the **Entrez Journals Database** record for the journal.
- Title** links to a list of **all issues** of the journal in PMC. [@](#) means the journal has some or all [Open Access](#) articles that are available in PMC immediately, even if the rest of the journal is not yet free or only has PubLink access.
- Latest Volume** links to the **most recent issue** available in PMC.
- Free Access** says how soon after publication the journal's articles are made free.
- PubLink** indicates that PMC links to the publisher's site for the full text of articles, possibly even for free articles.

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<a href="#">Search</a>	0002-9297	American Journal of Human Genetics	v.72(2) Feb 2003	v.70 2002	After 6 months	
<a href="#">Search</a>	1083-446X	Amphibian and Reptile Conservation <a href="#">@</a>	v.3(1) Jan 2004	v.3 2004	Immediate	
<a href="#">Search</a>	1476-0711	Annals of Clinical Microbiology and Antimicrobials <a href="#">@</a>	v.4 2005	v.1 2002	Immediate	
<a href="#">Search</a>	1475-2832	Annals of General Hospital Psychiatry <a href="#">@</a>	v.3 2004	v.1 2002	Immediate	
<a href="#">Search</a>	0066-4804	Antimicrobial Agents and Chemotherapy	v.49(2) Feb 2005	v.1 1972	After 6 months	6 months
<a href="#">Search</a>	0099-2240	Applied and Environmental Microbiology	v.71(2) Feb 2005	v.1 1953	After 6 months	6 months
<a href="#">Search</a>	0003-6919	Applied Microbiology	v.71(2) Feb 2005	v.1 1953	Immediate	
<a href="#">Search</a>	1465-9905	Arthritis Research <a href="#">@</a>	v.7(2) 2005	v.1 1999	Immediate	
<a href="#">Search</a>	1478-6354	Arthritis Research & Therapy <a href="#">@</a>	v.7(2) 2005	v.1 1999	Immediate [non-research: after 24 months]	Non-research: 24 months



Volume 2 | Issue 3 | MARCH 2005

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## Synopsis

open-access,  
freely available

*PLOS Medicine provides a synopsis of every research article, to give non-experts insight into the significance of the published work.*

## Early Detection of Disease Outbreaks

DOI: 10.1371/journal.pmed.0020065

Published: February 15, 2005



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**Citation:** (2005) Early Detection of Disease Outbreaks. PLoS Med 2(3): e65.

For disease outbreak detection, the public-health community has historically relied on the watchful eyes of doctors and other health-care workers, who have reported individual cases or clusters of cases of particular diseases to health-care and other authorities. The increased availability of electronic health-care data, however, raises the possibility of more automated and earlier outbreak detection and subsequent intervention. Besides diagnoses of known diseases, pre-diagnostic syndromic indicators—such as the primary complaints of patients coming to the emergency room or calling a nurse hotline—are being collected in electronic formats and could be analyzed if suitable methods existed. Martin Kulldorff and colleagues have been developing such methods, and now report a new and very flexible approach for prospective infectious disease outbreak surveillance.

Their method, which they call the “space-time permutation scan statistic,” is an extension of a method called scan statistic. All previously developed scan statistics require either (i) a uniform population at risk (with the same number of expected disease cases in every square kilometer), (ii) a control group (such as emergency

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<http://lib-cufts.lib.sfu.ca/CUFTS/cufts2marc-list.cgi>

Courtesy Simon Fraser University Library / COPPUL

more info: Kevin Stranack, [kstranac@sfu.ca](mailto:kstranac@sfu.ca), (604) 291-4648

# Open Access Archives (Subject)



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- arXiv e-print archive <http://arxiv.org/>
  - Papers in physics, math, computer science
  - Founded by Paul Ginsparg in 1991
  - Over 35,000 users in 70 countries
  - Hosted by Cornell University
  - Partially funded by National Science Foundation
  - Almost all papers in some sub-areas of physics (e.g. high-energy physics) are openly accessible here



# Open Access Archives (subject)



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- rePec Research Papers in Economics  
<http://repec.org/>
  - Over 300,000 papers
  - over 290,000 freely available online
  - collaborative effort - volunteers in 44 countries
- PubMedCentral - U.S. National Institute of Health (medicine)  
<http://www.pubmedcentral.nih.gov/>



# Open Access Archives - Institutional Repositories

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- Many different types of material
- Scholarly journal articles
- Theses
- Conference proceedings
- Powerpoint presentations
- Learning objects



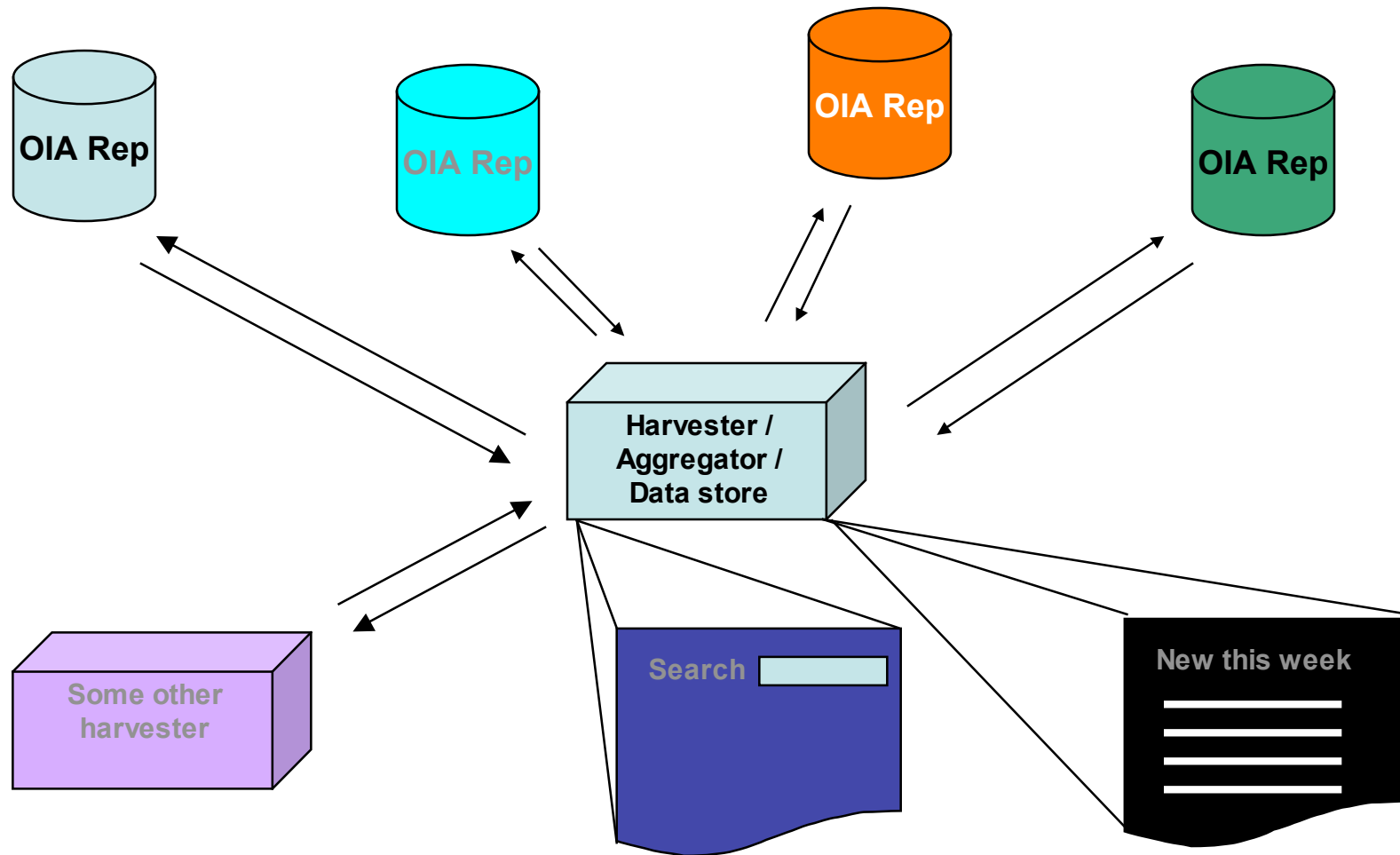
# Searching for open access items in archives

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- OAister
- Open Archives Initiative (OAI) compliant repositories
- Over 5 million records (not all free)
- Over 450 institutions
- Browse repositories or search for items
- <http://oaister.umdl.umich.edu/o/oaister/>

# Harvest, Store, Repurpose

*Slide courtesy Mark Jordan*

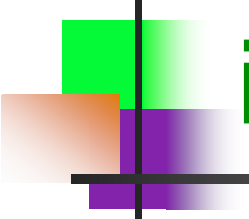




# Searching for Canadian open access items

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- Canadian Association of Research Libraries
  - Institutional Repositories
  - metadata harvester <http://carl-abrc-oai.lib.sfu.ca>
    - browse archives
    - search for items
- Library and Archives Canada Theses Canada Portal (Theses 1998-2002)  
<http://www.collectionscanada.ca/thesescanada/index-e.html>



# Searching for open access items - web search engines

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- Title, author or author/keyword search
- Different versions
- ILL: if it's going to be hard to find, we always google it first



# BC Resources

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- The British Columbia Digital Library: digital content in British Columbia's libraries  
<http://bcdlib.tc.ca/dlibs-bc.html>
- Vancouver Public Library Historical Photographs  
<http://www.vpl.vancouver.bc.ca/branches/LibrarySquare/spe/photos/photoagree.html>
- New Westminster Public Library Heritage and Historical Site <http://www.nwheritage.org/>



# BC Resources: Academic Libraries

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- Simon Fraser University Library Electronic Documents Centre <http://edocs.lib.sfu.ca/>
- University of British Columbia Archives <http://www.library.ubc.ca/archives/>
  - Historical photographs, UBC publications
- Public Knowledge Project <http://pkp.ubc.ca/>
  - Open Journal Systems
  - Open Conference Systems





# Using open access materials

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- Budapest open access definition
  - Authors retain moral rights
    - Attribution
    - Integrity of work
  - <http://www.soros.org/openaccess/read.shtml>
- Creative Commons approach
  - Menu of choices for authors
  - Standardized symbols for permissions
  - <http://creativecommons.org/>



# Want to know more?

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*Peter Suber's:*

- A Very Brief Introduction to Open Access  
<http://www.earlham.edu/~peters/fos/brief.htm>
- Open Access Overview  
<http://www.earlham.edu/~peters/fos/overview.htm>
- SPARC Open Access Newsletter & Archive  
<http://www.earlham.edu/~peters/fos/newsletter/archive.htm>



# Summary

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- Open access is making scholarly articles freely available to anyone, anywhere
- There are many resources out there already, and open access is rapidly growing
- Libraries can help direct users to these resources through web links, MARC records, and search help



Questions? Discussion?

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# Questions? Contact:

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Heather Grace Morrison

Project Coordinator

BC Electronic Library Network

(604) 268-7001

[heatherm@eln.bc.ca](mailto:heatherm@eln.bc.ca)