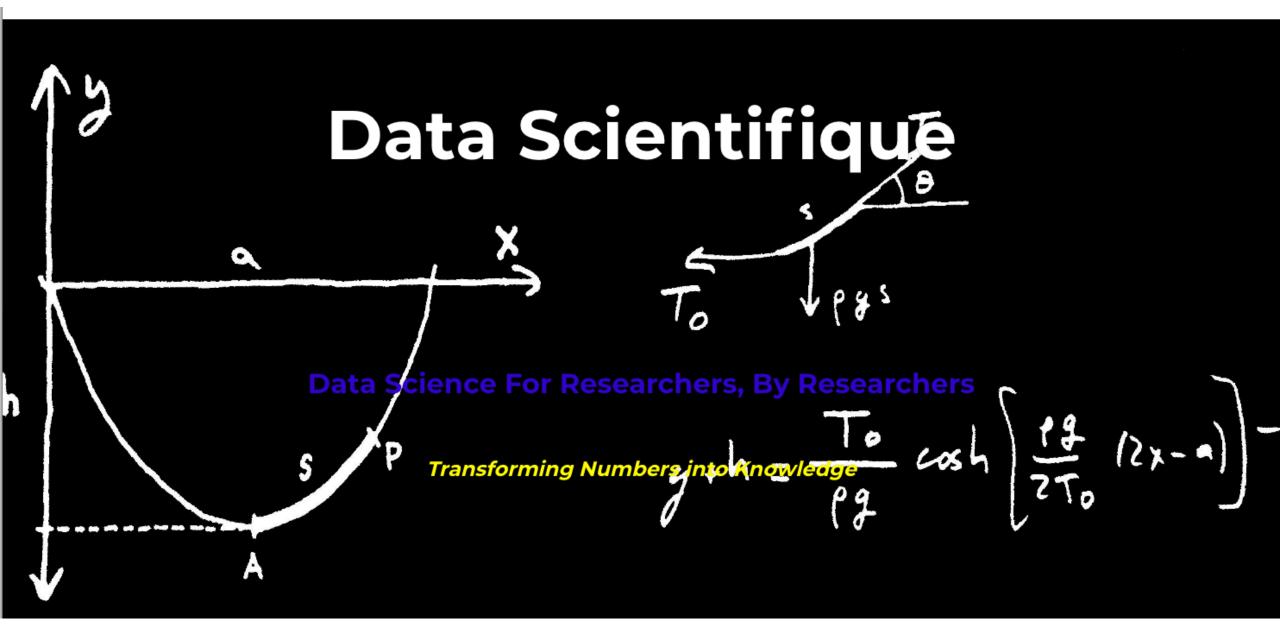
Double Research Strategies OPEN ACCESS SUPPORT

Jennifer J. McGrath, PhD, MPH www.datascientifique.ca November 13, 2017





What is Open Access?

SPARC Scholarly Publishing & Academic Resources Coalition

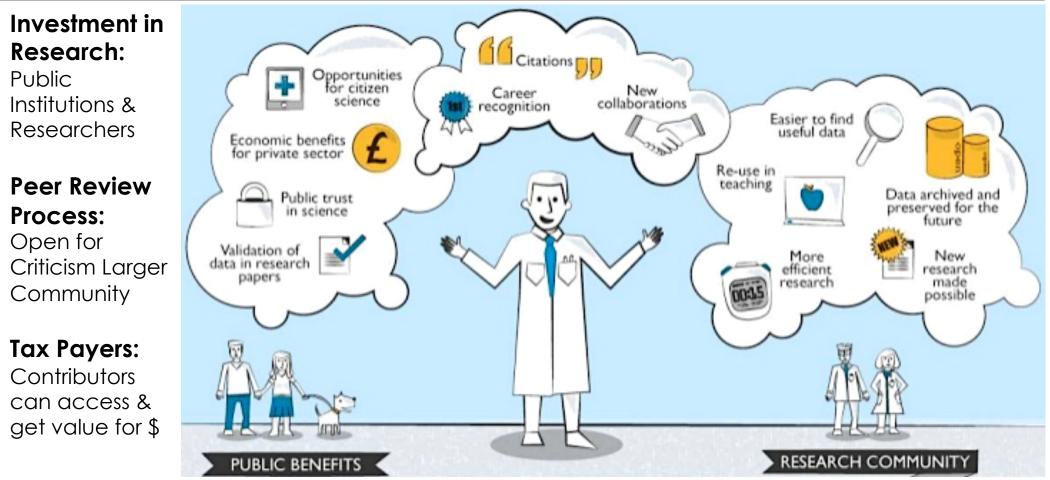
"free, immediate, online availability of research articles coupled with the rights to use these articles fully in the digital environment...ensures that anyone can access and use these results—to turn ideas into industries and breakthroughs int better lives."

Source: http://sparcopen.org



Source: https://www.youtube.com/watch?v=L5rVH1KGBCY

Open Access Changing Landscape



Open Access Benefits

More exposure for work

Practitioners can apply findings

Higher citation count

Research can influence policy

Compliant with grant rules (Tri-Council requires)

Wider circulation globally

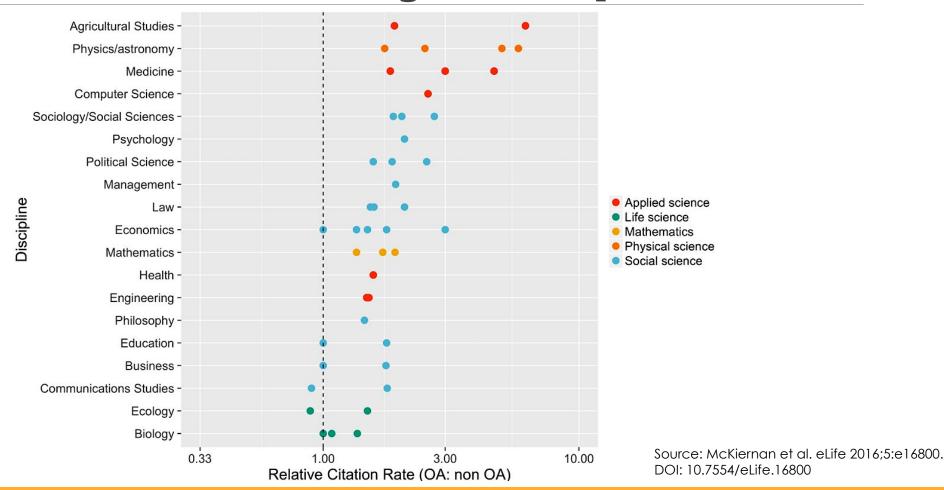
Greater visibility

Larger readership



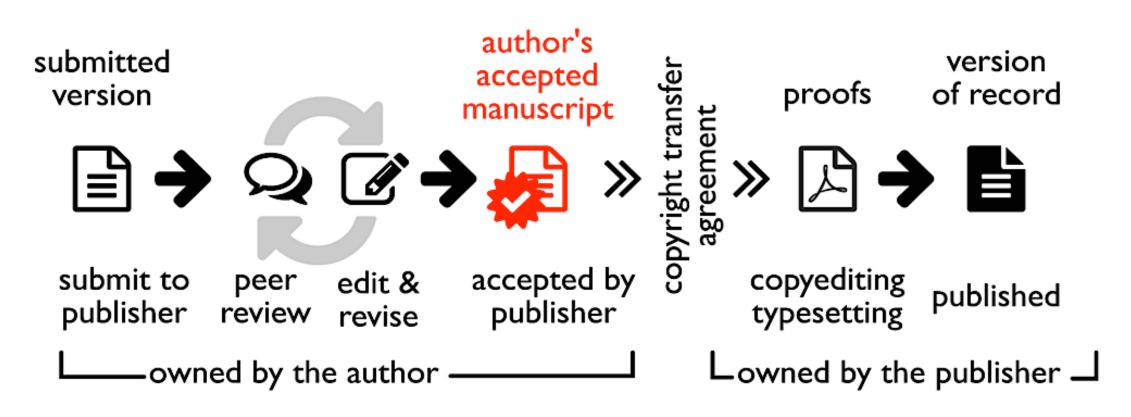
Source: http://www.aston.ac.uk/EasySiteWeb/ GatewayLink.aspx?alld=221535

Increase Citations by Discipline



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Publication Pipeline



Open Access Publishing

Open Access Journal: Pay Article Processing

Charge (DOAJ)

Self-Archive:

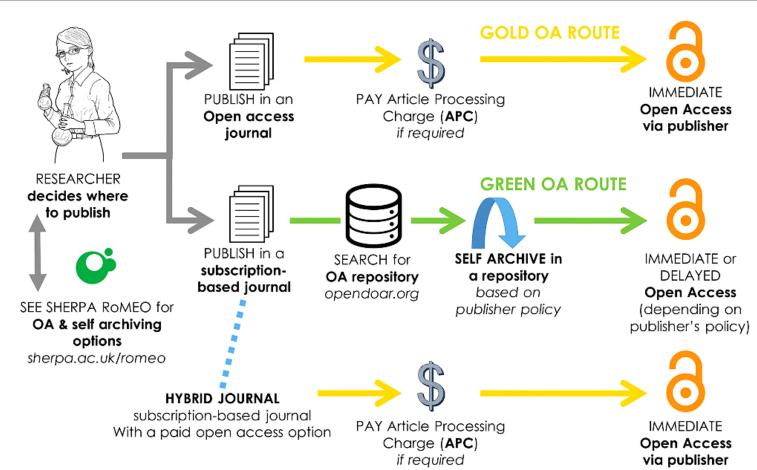
Deposit *pre-print* in repository

Hybrid Journal:

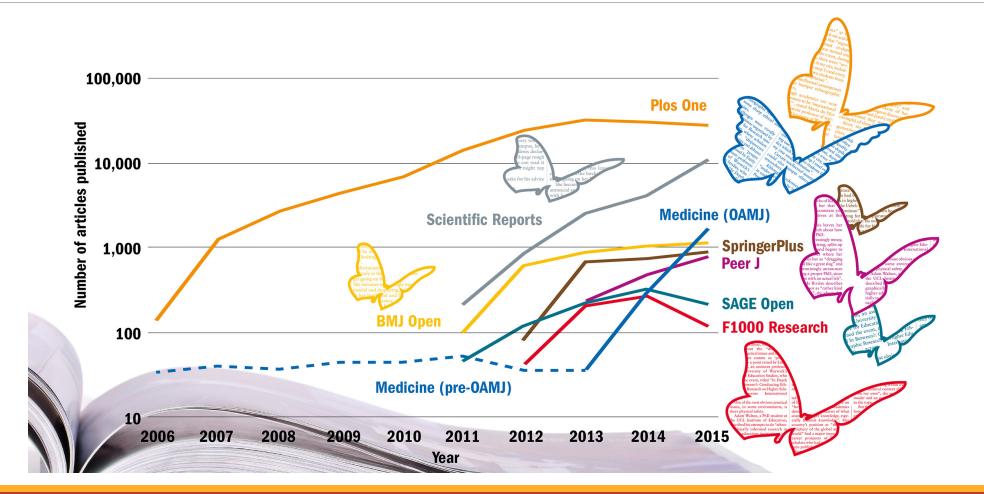
Paid, Subscription Journal with Fee for Open Access

Closed Access:

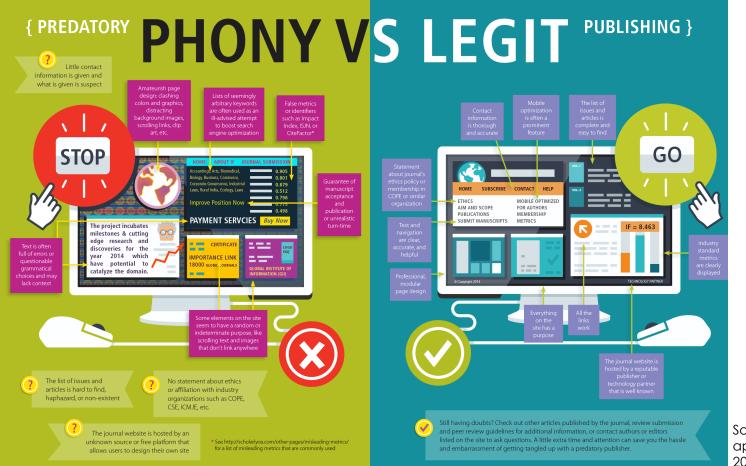
No Open Access Option Publisher Restricts Self-Archiving



Rise of Open Access Journals



Rise of Predatory Journals

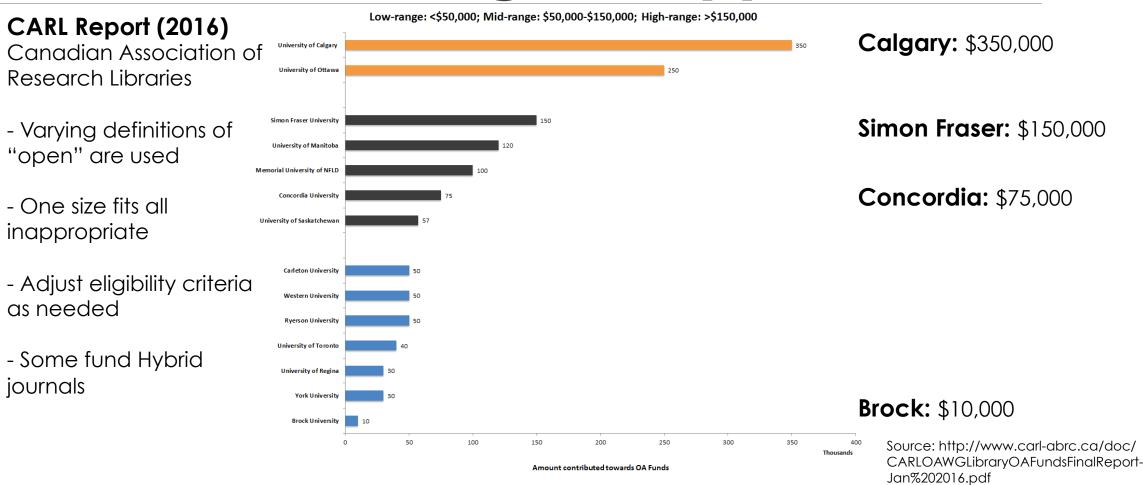


Source: Peter Burns, https:// appocsite2com.files.wordpress.com/ 2016/03/frontmatter-29.pdf

Open Access Uptake by Discipline

Percent OA by discipline (Green, Gold & Delayed) 50% 45% 40% % Delayed OA % Gold OA 35% % Green OA 30% 25% 20% 15% 10% 5% ALDSCIPLINES Nathematics Space nedical sciences professional Biology clinical Medicine 0% ANS ine physics eering anities chemistry

Canadian Funding to Support OA



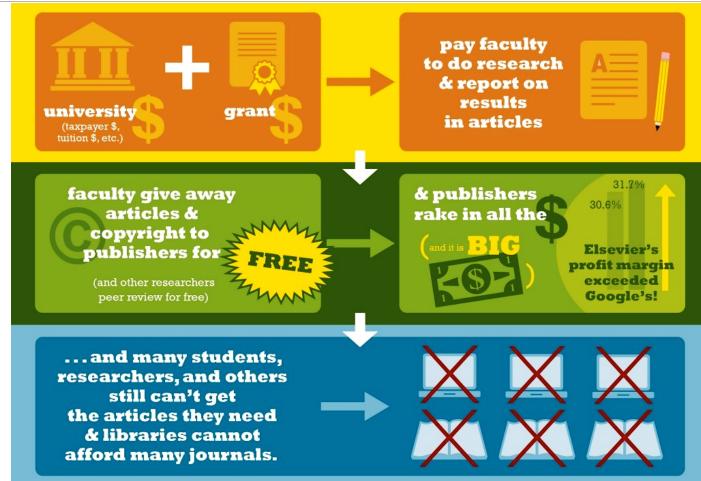
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How is Calgary spending funds?

€419.924 Springer Science + Business Media	€179.591 Springer Nature	€93.291 Hindawl Publishing Corporation			€39.575 earn Wiley-Blackwell wra	
	€94.180	€25.697 SAGE Publications €22.380 Dove Medical Press Ltd.	612.000 Production (2000)	esas ~	C. 1. 1. 	C1.80 crasses
	Public Library of Science (PLoS)	€22.371 Elsevier BV	COLUM COLUMN COLUMN COLUMN	ELTS Participants Annual (LE) ELTE ELTE Rest Annual (LE) ELTE Rest Annual (LE) ELTE		HAN

Source: treemaps.intact-project.org/apcdata/calgary-u/

Sticky-Wicket of Funding Hybrids



Oligopoly of Academic Publishing



Source: PLOS ONE | DOI:10.1371/journal.pone.0127502 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4465327/ pdf/pone.0127502.pdf

Concordia Open Access Fund

http://library.concordia.ca/help/open-access/author-fund.php

Corresponding author: Full-time & part-time faculty members, staff, graduate students, postdoctoral fellows

Maximum amount reimbursed \$3000 per fiscal year; up to two (2) requests per fiscal year

Peer-reviewed journal articles, monographs, and monograph chapters

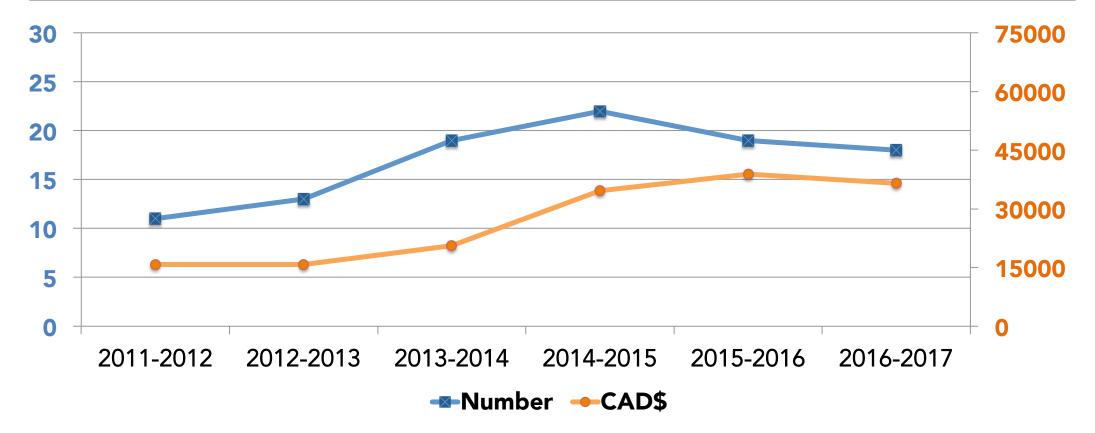
Must be published in a **fully open access journal**. Traditional subscription-based or **'hybrid'** journals that offer an open access option for a fee are **not eligible**.

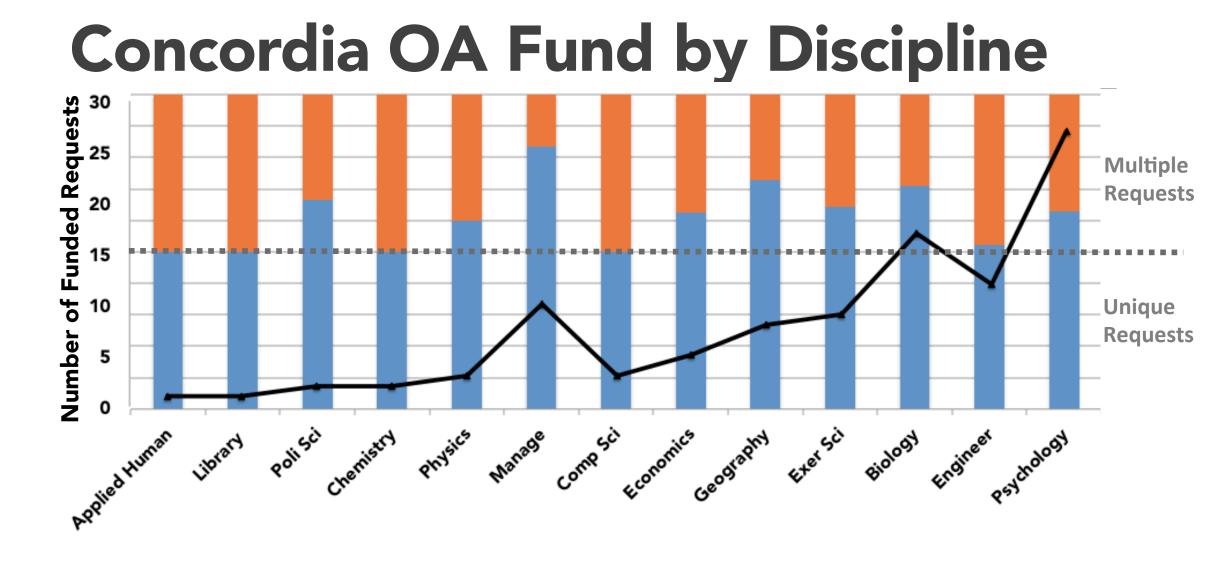
Eligible Open Access journals will be listed in the Directory of Open Access Journals

Use research grant funding before applying to Open Access Author Fund.

Deposit article / monograph / chapter in Spectrum Research Repository.

Concordia OA Fund by Year





Field	Paper (n)	Reference (n)	not OA (arc)	OA (arc)	gold (arc)	green (arc)	
TOTAL	3,350,910	34,865,430	0.81	1.23	1.06	1.28	
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	

Double Our Research Strategy

Augment Open Access throughout entire Concordia Community

Greater promotion across departments and faculty (more buy in)

Increase understanding of open access & predatory journals

Enhance flexibility of fund for hybrid journals, depending on discipline

Consider levers for cultural shift toward open access (data repositories, source code, methods)

Capitalize on disciplines that are advanced in uptake (genetics, physics, fine arts)

General Resources

Tri-Agency Statement of Principles on Digital Data Management http://www.science.gc.ca/eic/site/063.nsf/eng/h_83F7624E.html

Tri-Agency Open Access Policy on Publications http://www.science.gc.ca/eic/site/063.nsf/eng/h_F6765465.html

Tri-Agency Financial Administration Guidelines & Responsibilities <u>http://www.nserc-crsng.gc.ca/Professors-Professeurs/</u> FinancialAdminGuide-GuideAdminFinancier/Responsibilities-<u>Responsabilites_eng.asp#SSHRC</u>

General Resources

ORCID (Persistent Digital Identifier) https://orcid.org/

SCOPUS (Author Identifier; many agencies use Elsevier's SCOPUS Database) https://service.elsevier.com/app/answers/detail/a_id/11212/ supporthub/scopus/

SHERPA/RoMEO http://www.sherpa.ac.uk/romeo/index.php

Library Resources

Concordia Open Access Author Fund http://library.concordia.ca/help/open-access/author-fund.php

Funding Agencies and Open Access http://library.concordia.ca/help/open-access/open-accessmandates.php?guid=funding

Open Access at Concordia http://library.concordia.ca/help/open-access/index.php

Research Data Management Guide http://library.concordia.ca/help/data/index.php

Bibliometrics and Research Impact Guide http://library.concordia.ca/help/bibliometrics/index.php

SSRHC Resources

Research Data Archiving Policy (SSHRC Only)

http://www.sshrc-crsh.gc.ca/about-au_sujet/policies-politiques/ statements-enonces/edata-donnees_electroniques-eng.aspx

"...researchers whose work is publicly funded have a special obligation to openness and accountability. All research data collected with the use of SSHRC funds <u>must</u> be preserved and <u>made available for use by others</u> within a reasonable period of time. SSHRC considers "a reasonable period" to be within two years of the completion of the research project for which the data was collected." [underlining added]

CIHR Resources

Public Database Deposit

http://www.science.gc.ca/eic/site/063.nsf/eng/h_94D49094.html

"Deposit bioinformatics, atomic, and molecular coordinate data into the appropriate public database (e.g. gene sequences deposited in GenBank) immediately upon publication of research results..." See examples in Annex: http://www.science.gc.ca/eic/ site/063.nsf/eng/h_94D49094.html

PubMed Central Canada http://pubmedcentralcanada.ca/pmcc/

NSERC Resources

Current Policy

http://www.nserc-crsng.gc.ca/NSERC-CRSNG/policies-politiques/ OpenAccess-LibreAcces_eng.asp

Summary Consultation Document http://www.nserc-crsng.gc.ca/_doc/NSERC-CRSNG/NSERC-SSHRC-OpenAccess_e.pdf

PubMed Central Canada http://pubmedcentralcanada.ca/pmcc/

Intellectual Property / Patents

NSERC

http://www.nserc-crsng.gc.ca/NSERC-CRSNG/Policies-Politiques/ippi_eng.asp

SSRHC

http://www.sshrc-crsh.gc.ca/funding-financement/policiespolitiques/g_copyright-s_droits_auteur-eng.aspx_

CIHR

http://www.cihr-irsc.gc.ca/e/22631.html#2-A19

Selected Readings

How Open Science Helps Researchers Succeed

<u>https://elifesciences.org/download/</u> aHR0cHM6Ly9jZG4uZWxpZmVzY2llbmNlcy5vcmcvYXJ0aWNsZXMvMTY4MDAvZWxpZm UtMTY4MDAtdjlucGRm/elife-16800-v2.pdf? _hash=XF6ptxz6fW58%2BOnwblhiolVe29hNekdl3kCDtbvOry8%3D</u>

Self-Selected or Mandated, Open Access Increases Citation Impact for Higher Quality Research

http://journals.plos.org/plosone/article/file?id=10.1371/journal.pone. 0013636&type=printable

Promoting an Open Research Culture

http://science.sciencemag.org/content/348/6242/1422/tab-pdf

Evaluating and Promoting Open Data Science Practices in Open Access Journals

http://www.utpjournals.press/doi/abs/10.3138/jsp.49.1.66