McMaster Experts Breakout Session

J. Brodeur McMaster IT Forum Breakout Session 11-October, 2018

Overview

- McMaster's research information landscape
- McMaster Experts
 - What is it?
 - Project development
 - Information sources and profiles
 - Opportunities, challenges, next steps
- Final questions, demos & discussion

McMaster's Research Information Landscape

Research Information: Information about researchers, their scholarly activities and output

Education & Training

Fields of expertise

Language competencies

Academic appointments

Contact information

Unique researcher IDs

Websites / Social media

About researchers



Grants

Other activities & Service [committees, media, etc.]

Research overview

Teaching overview

Teaching activity

Publications

Co-author networks

Supervision

About their works

Where does McMaster's research information exist?

How is it managed and used?

How is it presented to the public?

Faculty Webpages Institutional Research & Analysis

External profiles

Brighter World In a spreadsheet, somewhere

MacFacts

Many places!

Centre/Institute Webpages

Mosaic DW

OVPR/ ROADS

External Databases Researcher Webpages Faculty & Staff Directory How can (and should) we centralize this information?

How to facilitate management and reuse?

How can we improve public access to this information?

What is McMaster Experts?



Elements

Research Information Management System [RIMS]



- A centralized, reusable scholarly activity record for all faculty.
- Uses HR data to populate profiles.
- Streamlines publication searching and management.
- Generates CVs and analysis reports.
- Add-on modules for grants, teaching, etc.
- Can be integrated with other systems via Database and API.

VIVO

- An ontology and semantic web application for representing scholarship.
- Uses linked open data to represent connections between researchers, their expertise, and their works.
- A widely-used, open source research and researcher discovery tool.

Ontology + Linked data application for scholarship

connect • share • discover





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The overarching goal of McMaster Experts is to provide a central source of research information that is:

Experts

- Current, comprehensive, and accurate
- Available to all faculty and researchers across McMaster
- Acquired and curated efficiently
- Presentable to external audiences and reusable by internal users



Project Development & Timeline

Early 2016

- MUL partnered with RHPCS for Provost's SAF support
 - **Goal:** Implement a pilot of VIVO software to "showcase the diverse array and depth of research performed across McMaster"
 - **Deliverables**: Faculty profiles, publication records, scholarly activities
- Formal beginning in July 2016
 - 9-month project manager
 - Project team from MUL & RHPCS





2017

- Contracted Symplectic to implement Elements RIMS and VIVO connector
- Developed HR data integration
- Began initial curation of profiles and search terms
- Customized VIVO webpages to match branding standards; integrated with Brighter World

2018

- Core McMaster Experts system transition to sustainment
 - Systems transferred to UTS servers
- User engagement and requirements gathering
 - Integrating with other systems
- Formation of McMaster Experts Advisory Committee
- Completing profile curation and publication claiming
- Hiring two positions to support McMaster Experts
 - Production Analyst (early October)
 - Technical Support Specialist (late October)

Information Sources and Profiles





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Profiles in **Elements** (expertsmanager.mcmaster.ca) are visible only to the researcher, delegates, and administrators Researchers are notified when publications are waiting to be accepted (or declined) as theirs. Researchers can add overviews, ORCiD IDs, research areas, links to other web pages.

Dr. Michael Noseworthy (Edit mode)



Niew profile 🛛 🔼 CV and Reports





Experts

ଲ HOME PEOPLE DEPARTMENTS RESEARCH ABOUT

McMaster Experts is McMaster University's researcher and expertise discovery gateway that aims to facilitate collaboration among academic researchers and spark increased engagement with other communities in academia, industry, and the media, locally, nationally, and internationally.



The **McMaster Experts (VIVO)** landing page (<u>experts.mcmaster.ca</u>) showcases researchers and dynamically integrates media stories.





MCMASTER RESEARCH HELPING DEVELOP NEW PROGRAMS FOR THOSE STRUGGLING WITH FOOD INSECURITY





SCHOLARLY ACTIVITY	BACKGROUND	CONTACT	VIEW ALL

Selected Scholarly Activity

Academic Article

- Comparing measured calcium and vitamin D intakes with perceptions of intake in Canadian young adults: insights for designing osteoporosis prevention education., Public Health Nutrition, 20:1760-1767, 2017
- Cultural Dimensions of Food Insecurity among Immigrants and Refugees. Human Organization. 76:15-27., .
- Routledge series for creative teaching and learning in anthropology. 2nd edition. American Journal of Human Biology. 29., 2017
- . School meal programs and their potential to operate as school-based obesity prevention and nutrition interventions: case studies from France and Japan. Critical Public Health. 26:133-146., 2016
- . Comparison of infant vitamin D supplement use among Canadian-born, immigrant, and refugee mothers.. Journal of Transcultural Nursing. 26:261-269., 2015 Atmetric 1

McMaster Experts (VIVO) profile pages display information from Elements records for public viewing Tagged stories from Brighter World pulled dynamically into profiles Full scholarly activity information available on bottom tabs

MENU



Sheila Singh Associate Professor, Surgery

Dr. Sheila Singh is an Associate Professor in the Department of Surgery and Biochemistry. She is the Scientist Program, Director of the Pediatric Brain Tumour Study Group, and a Scientist appointed to th Research Institute (SCCRI). She holds a Canada Research Chair in Human Cancer Stem Cell Biology. from McMaster University. Her Ph.D. in Molecular Biology, and her Doctorate of Neurosurgery are from

MORE O

Affiliations

- McMaster University
- · Faculty of Health Sciences, McMaster University
- Associate Member, Biochemistry & Biomedical Sciences, Faculty of Health Sciences
- Associate Member, Pediatrics, Faculty of Health Sciences
- Associate Professor, Surgery, Faculty of Health Sciences
- Canada Research Chair in Human Cancer Stem Cell Biology, McMaster University , 2007 -



VIVO's ontology and linked open data enable data visualizations, such as a researcher's McMaster co-author network.

Opportunities, Challenges, Next Steps

- Building a complete & centralized information source
- Integrating Experts into other systems and processes
- Expanding functionality by adding modules
- Experts as central source for scholarly activity reporting
- Campus-wide adoption of ORCID ID

- Gathering (clean) data; Ensuring profile curation
- Satisfying diverse requirements; supporting users
- Requires data source development; costs \$\$
- Requires buy-in, additional modules, profile maintenance
- Communicating value; facilitating sign-up

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Information

- Contact information & IDs
- Academic appointments
- Research overview
- Fields of expertise
- Education & Training
- Language competencies
- Websites / Social media
- Teaching overview
- Teaching activity
- Grants
- Publications
- Co-author network
- Other activities & Service [committees, media, supervision, etc.]

Elements

Purpose

Populate VIVO (Experts)

Populate other profiles

Annual reporting

Reuse in internal systems

Export in other formats

Synchronize with external systems

View real-time dashboards

Design internal assessment & workflows

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Governance





System & Support Staff

Users

Final Questions

What else do you need/want to know?

How might Experts help you?

How can/should Experts integrate with other systems?