The 2018 Gairdner Lecture – Wednesday October 24th, 2018

The Escalating Threats of AMR and Climate Change & Their Significance for the Field of Infectious Diseases

Speaker: King K. Holmes - BIO:

Dr. King Holmes is the William H. Foege Chair of Global Health at the University of Washington, a position he has held since 2006. He is also founder and director of the University of Washington Center for AIDS and STD, a World Health Organization Collaborating Center for AIDS and STD. Currently, Dr. Holmes is also the head of Infectious Diseases at Harborview Medical Center. Dr. Holmes completed his undergraduate degree at Harvard College in 1959, his medical degree at Cornell University Medical College in 1963 and received his Ph.D. in Microbiology from the University of Hawaii in 1967. Dr. Holmes has been a member of the University of Washington faculty since 1969, holding educational leadership positions in areas such as medicine, microbiology, epidemiology and global health. He is the principal investigator for the International Training & Education Center on Health (I-TECH), a collaborative program between the University of Washington and the University of California, one of the largest HIV/AIDS training programs in the world. Dr. Holmes also directs the University of Washington/Fred Hutchinson Cancer Research Center’s Center for AIDS Research. He has participated in research on STDs for over 40 years in Africa, Latin America, Southeast Asia, and the Western Pacific. He has authored over 550 peer-reviewed publications and edited 30 books, monographs, and journal supplements.

The lecture can be found at on the HRS website.

Tri-Agency Fund

In the coming weeks (late November or early December), it is anticipated that a call for proposals for a new Tri-Agency Fund will be issued. It is also anticipated that the available time between the launch and the application deadline will be minimal, reducing lead time for proposal development. Currently, the only information about the Tri-Agency Fund is found in the Canada Research Coordinating Committee’s (CRCC) consultation document from August 2018.

Here is a summary of the information contained in that CCRC document:

Available funds:
The 2018 federal budget included $275M over five years beginning in FY 2018-19 and $65M per year thereafter to support international, interdisciplinary, fast-breaking, high-risk research.

The CRCC is proposing two funding streams:
- The first will support proof-of-concept projects, with funding up to $1 million over three years.
- The second will support large projects to develop Canadian leadership in cutting-edge interdisciplinary research fields, with funding up to $20 million over seven years.

In addition to the two streams, they are proposing to have special calls that respond rapidly and flexibly to urgent socio-economic, technological, health and environmental challenges and time-sensitive opportunities. Funding for special calls will be designed flexibly to support initiatives of varying scale, cost and duration, and be targeted to specific challenges/opportunities.

Eligibility:
To be eligible for either funding stream, projects will have to be interdisciplinary and high-risk, and international collaboration will be strongly encouraged. Funding in both streams will be open to all research areas.
Evaluation criteria:
The proposed peer review process will embrace and reward high-risk research. Proposal adjudication will include criteria such as:

- the boldness of the research question;
- the novelty of the proposed methodology;
- the possibility of high reward should the research project achieve its objectives; and
- the opportunities for Canada to provide world leadership in the proposed research area.

Likewise, based on some of the questions posed by the CRCC during the consultation process, it is anticipated that applications to the new Tri-Agency Fund will also need to take into consideration equity, diversity and inclusion, along with opportunities for early career researchers.

In anticipation of this announcement, we encourage faculty to contemplate both the eligibility and criteria listed here and prepare for any potential submissions to the new Tri-agency Fund in coordination with Health Research Services. Please contact Lisa Hodge at hodgel@mcmaster.ca or ext. 22262 if you have an interest in applying.

CIHR Fall 2018 Postdoctoral Fellowship Award Competition – School of Graduate Studies Processes
This competition is being managed by the Office of Postdoctoral Affairs in the School of Graduate Studies. Applicants are encouraged to contact OPART at postdoc@mcmaster.ca for questions regarding required paperwork, deadlines and online submissions.

General Application Process:
- Applications are prepared and submitted by students on ResearchNet by the internal deadline set by McMaster. You will not be able to submit your application on ResearchNet until all the required “tasks” on ResearchNet are completed, including the sponsor “task.”

McMaster INTERNAL RESEARCHNET DEADLINE: Monday, October 29, 2018, 12:00pm
Sponsor info is due on RNet by October 27, 2018 before 12 noon
It is important to note that it is the applicant’s sole responsibility to follow up with his/her sponsors to ensure that the assessments are submitted online by their sponsors no later than Saturday, October 27, 2018 12:00pm.

Complete instructions are available on our website.

Research Project Management Course at UofT
Good project management is vital to the success of major research projects. UofT has developed a course specifically tailored for the project management of research projects. The course has been adapted for research project management through the collaboration of an Advisory Group of faculty and staff, the School of Continuing Studies, staff from the Division of the Vice-President, Research & Innovation, and the instructor, Dr. Alison Paprica. Dr. Paprica (Assistant Professor [status] at the U of T Institute of Health Policy, Management & Evaluation), was previously the Director responsible for up to $60 million/year of government research funding and has also led numerous large-scale R&D projects in the private, public and not-for-profit sectors.

The course is designed for faculty researchers, staff scientists, post-doctoral fellows, research coordinators and those interested in a path to management and research leadership. This is the second year the course is being offered. Last year, given demand for the fall course, we mounted an additional section for the winter.

Information and registration can be found at 3382 Project Management for Research.

Invitation for feedback: Prioritizing Future Challenges for Canada
Canada’s three research granting agencies, the Canadian Institutes of Health Research, the Natural Sciences and Engineering Research Council of Canada, the Social Sciences and Humanities Research Council of Canada (CIHR, NSERC, SSHRC), and the Canada Foundation for Innovation, are seeking your expertise to help prioritize which future challenges identified through a recent horizon scan are considered most important for Canada.

Outcomes from this consultation may also be leveraged to support the priorities of the Canada Research Coordinating Committee (CRCC), notably to advance efforts in identifying key emerging research areas. Stakeholders from all four...
agencies are invited to participate in this consultation. Information on the CRCC’s priorities is available on the CRCC’s website. Building upon the success of SSHRC’s 2014 Imagining Canada’s Future initiative, the granting agencies partnered with Policy Horizons Canada, a federal centre of foresight expertise, to undertake a horizon scan as a first step in identifying future challenges for Canada over the next 10 to 15 years.

Policy Horizons Canada drew on sources from across digital media, academic studies, and foresight projects to identify and analyze change data for its global scan. They also conducted a literature review of over 600 early change indicators, and examined additional materials produced by Policy Horizons Canada, government departments and agencies, and other organizations around the world. These approaches were complemented by an online questionnaire engaging various key networks and foresight communities from more than 60 countries.

The scan has identified 16 future challenges with the potential to shape society in profound ways, and which are all multi-disciplinary and require broad collaboration to address. The granting agencies ask that you select one top challenge and explore its possible impacts through a brief survey. For the challenge you select, you will be asked a series of questions. You will have the option of repeating the exercise for a challenge you deem of next-most importance. The granting agencies are inviting input from a variety of individuals across the academic, private, public and not-for-profit sectors, in Canada and internationally. Beyond the 16 challenges identified in the horizon scan, you have the opportunity to identify additional challenges deemed critical to Canada’s future.

By taking part in their brief prioritization exercise, using the Futurescaper crowdsourcing tool, you will help to identify which challenges to consider for possible future programming and/or corporate activities. Once you have reviewed the 16 future challenges, the exercise will take you about 10 to 15 minutes to complete. To begin, please follow this link: FUTURE CHALLENGES PRIORITIZATION

Results of this foresight exercise will be available by spring 2019. Responses are anonymous, and results will be aggregated to ensure anonymity.

Associated Links:
Imagining Canada’s Future initiative
Policy Horizons Canada
Canada Research Coordinating Committee
Social Sciences and Humanities Research Council of Canada
Natural Sciences and Engineering Research Council of Canada
Canadian Institutes of Health Research
Canada Foundation for Innovation

Social Sciences and Humanities Research Council (SSHRC) Research Grants and Partnerships – Upcoming Webinars
SSHRC will be holding a series of webinars for applicants and research administrators on upcoming competitions. The webinars will be held via Adobe Connect at the following times:

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<th>Webinar</th>
<th>Date</th>
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<td>Connection Grants (English)</td>
<td>Wednesday, November 7, 2018, 13:00-15:00 ET</td>
<td><a href="https://sshrc-crsh.adobeconnect.com/rij5jakgqga/">https://sshrc-crsh.adobeconnect.com/rij5jakgqga/</a></td>
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<tr>
<td>Connection Grants (French)</td>
<td>Thursday, November 8, 2018, 13:00-15:00 ET</td>
<td><a href="https://sshrc-crsh.adobeconnect.com/rnb57d820xk6/">https://sshrc-crsh.adobeconnect.com/rnb57d820xk6/</a></td>
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(Advance Registration is not required)

Compilation of GDPR Guidances Now Available
The Office for Human Research Protections has developed a new resource for IRBs, researchers, and sponsors that are involved in human subjects research in Europe. Titled Compilation of European GDPR Guidances, the document lists the data protection authorities of all European countries that fall under the new E.U. General Data Protection Directive (GDPR). For each country, the compilation also provides the links to any general GDPR guidances, as well as specific guidances on the topics of Research, Legal Basis, Consent, and International Data Transfer.
Canada Foundation for Innovation (CFI) – Planning for Innovation Fund 2019

The CFI Innovation Fund (IF) enables institutions to strengthen their research infrastructure in priority areas. An eligible infrastructure project involves the modernization, acquisition, development of research infrastructure with the goal of enabling Canadian researchers to tackle ground-breaking projects. We have indications that CFI plans to release a Draft Call for Proposals for the IF in the beginning of 2019.

CFI limits the amount of funding an institution may request. As such, we must be highly strategic in the applications selected for submission.

Anyone interested in submitting an IF application must meet with Dr. Bramson to discuss:

- the excellence, innovation and viability of the proposed research program;
- the need for additional infrastructure;
- eligibility and fit with the Innovation Fund mandate;
- the planned location for this project and the plan for sustainability.

To schedule a meeting, please contact Jenn Seager, ext. 22184; seagerj@mcmaster.ca

For any programmatic questions, please contact Tracy Arabski, Director Health Research Services; ext. 22515; arabski@mcmaster.ca

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**Health Research Grant Competitions**

*Programs administered by Health Research Services, unless otherwise indicated. Email: hsresadm@mcmaster.ca*

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<td><strong>CIHR – Operating Grant: Geroscience Demonstration Grants</strong></td>
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<td><strong>CIHR – Team Grant: Canadian Microbiome Initiative 2: Research Teams</strong></td>
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<td><strong>Escher Fund for Autism: Investigation of F2 Neurodevelopmental outcomes of F0 pregnancy or F1 Neonatal General Anesthesia</strong></td>
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<td><strong>Postdoctoral Funding Opportunity – DeGroote Fellowship Awards</strong></td>
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<td><strong>Alzheimer Society Research Program (ASRP) 2019 Competition</strong></td>
<td>Oct 26</td>
<td>Nov 9</td>
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<tr>
<td>Organization</td>
<td>Program Description</td>
<td>Start Date</td>
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<td>Bill &amp; Melinda Gates Foundation</td>
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<td>Social Sciences and Humanities Research Council (SSHRC)</td>
<td>Partnership Development Grants Collaborative Housing Research Network Initiative</td>
<td>Aug 30 to ROADS</td>
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<td>Social Sciences and Humanities Research Council (SSHRC)</td>
<td>Partnership Development Grant</td>
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<td>Canadian Hemophilia Society (CHS) Research Programs</td>
<td>Dream of a Cure</td>
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<td>Canadian Hemophilia Society (CHS) Research Programs</td>
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<tr>
<td>Canadian Hemophilia Society (CHS) Research Programs</td>
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<td><strong>NEW</strong></td>
<td>Genomic Applications Partnership Program (GAPP)</td>
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<td>Canadian Blood Services</td>
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<td>Canadian Open Neuroscience Platform (CONP) Studentships Program</td>
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<td>ERS and The Union Joint Public Health Fellowship in Respiratory Infections</td>
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<tr>
<td>Burroughs Wellcome Fund</td>
<td>Preterm Birth Initiative</td>
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<td>MITACS JSPS Summer Program</td>
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<td>Nov 21 Dec 5 MILO</td>
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<tr>
<td><strong>NEW</strong></td>
<td>CFN Interdisciplinary Fellowship Program 2019</td>
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<td>Alex’s Lemonade Stand Foundation</td>
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<td>Alex’s Lemonade Stand Foundation</td>
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<td><strong>NEW</strong></td>
<td>Michael Degroote Pain Fellowships</td>
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<td><strong>NEW</strong></td>
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<td><strong>NEW</strong></td>
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<td>Canadian Cancer Society (CCS)</td>
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<td>Ontario-Jiangsu Industrial Research and Development Program (OJIRDP)</td>
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<td>Cancer Research Society: Operating Grants</td>
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<td>Alzheimer’s Drug Discovery Foundation: The Treat FTD Fund</td>
<td>Nov 9 Feb 1 2019 Feb 15 2019</td>
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<td>Alex’s Lemonade Stand Foundation: Innovation Grants</td>
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<td>Weston Brain Institute Rapid Response</td>
<td>Dec 3 TBD TBD</td>
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<td>Weston Brain Institute Transformational Research</td>
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<td>Weston Brain Institute Postdoctoral Scholars at Oxford</td>
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<td>Weston Brain Institute International Fellowships: Canada</td>
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<td>McMaster University, McMaster Institute for Research on Aging (MIRA), Labarge Centre for Mobility in Aging (LCMA): Matching Funds for Research Opportunities</td>
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<td>OCE Voucher for Innovation and Productivity II (VIP II) Program</td>
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<tr>
<td>MITACS Accelerate Program</td>
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**Funding Opportunity (DoD)**

- (eBRAP account required – must be validated by McMaster prior to any submission)
- LOI Deadline
- Internal HRS Deadline
- Sponsor Deadline

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**CIHR – Doctoral Research Award: Vanier Canada Graduate Scholarships 2018-2019**

The Vanier Canada Graduate Scholarship (Vanier CGS) was created to attract and retain world-class doctoral students and to establish Canada as a global centre of excellence in research and higher learning. It is available to both Canadian and international PhD students studying at Canadian universities. The program is jointly administered by Canada’s three federal granting agencies: the Canadian Institutes of Health Research (CIHR), the Natural Sciences and Engineering Research Council (NSERC) and the Social Sciences and Humanities Research Council (SSHRC). CIHR has been designated as the operational lead for the implementation of the program. For further information about this funding opportunity, please consult the Vanier CGS website.

**Funding Details:** The total amount available for this funding opportunity is $24,900,000, enough to fund approximately 166 awards. The maximum amount per award is $50,000 per year, for up to three (3) years and a total of $150,000 per award. This funding is non-renewable.

**Additional Details**

- **Contact Correen Smith in Graduate Studies to Apply**
- **Sponsor Deadline: October 31, 2018**

**CIHR - Fellowship**

CIHR’s Health Research Training Strategy aims to equip research trainees so that they emerge from their training as scientific, professional, or organizational leaders within and beyond the health research enterprise. Generating Research Leaders of tomorrow is a key objective for CIHR. Fellowships provide support for highly qualified applicants in all areas of health research at the
post-PhD degree or post-health professional degree stages to add to their experience by engaging in health research either in Canada or abroad.

**Funding Details:** The awards consist of a stipend and a research allowance and are valued in Canadian dollars. It is anticipated that approximately $21 million over five years will be available through this competition. The maximum amount awarded for a single award is up to $60,000 per annum for up to 5 years. The value and duration of each award is determined by the degree(s) held, licensure (where applicable), location of tenure and experience of the applicant.

**Additional Details**

**Contact Correen Smith in Graduate Studies to Apply**

*Sponsor info is due on RNet by October 27, 2018 before 12 noon*

**Graduate Studies Internal Deadline:** October 29, 2018

**Sponsor Deadline:** November 1, 2018

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**CIHR – Catalyst Grant: SPOR Innovative Clinical Trials**

The **Strategy for Patient-Oriented Research (SPOR)** is a national coalition of federal, provincial and territorial partners (patients and informal caregivers, provincial health authorities, academic health centres, charities, philanthropic organizations, private sector, etc.) dedicated to the integration of research into care. Patient-oriented research refers to a continuum of research that engages patients as partners, focusses on patient-identified priorities and improves patient outcomes. This research, conducted by multidisciplinary teams in partnership with relevant stakeholders, aims to apply the knowledge generated to improve healthcare systems and practices. Clinical trials are one of the elements of SPOR that responds to its goals to strengthen organizational, regulatory and financial support for clinical studies in Canada, and enhance patient and clinician engagement in research. Under this element, the Innovative Clinical Trials (iCT) initiative aims to build capacity and increase the intensity of iCT research. iCTs use designs that are alternative to traditional Randomized Controlled Trials (RCT) with application in areas ranging from product development to health system improvement. iCT methods can reduce the cost of conducting trials, reduce the amount of time needed to answer research questions, and increase the relevance of research findings to patients, health care providers and/or policy makers. Adopting these alternative designs can maximize the use of existing knowledge and data.

**Funding Details:** The total amount available for this funding opportunity is $1,000,000, enough to fund approximately ten (10) grants. The maximum amount per grant is $100,000 for up to one year.

**Additional Details**

**Internal HRS Deadline:** October 31, 2018

**Sponsor Deadline:** November 14, 2018

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**CIHR - IPPH Trailblazer Award**

The CIHR-IPPH Trailblazer Award is expected to:

- Recognize the exemplary efforts and activities of exceptional Canadian researchers at different career stages who have created a highly influential body of work that has had a substantial impact on the field of population and public health research and its use in policy and/or practice in Canada and/or internationally. This award will identify trailblazers in public health based on the following criteria:
  1. Level of impact and experience in Canada and/or internationally in one or more of the relevant research areas in population and public health research.
  2. Level of influence on policy and/or practice in Canada and/or internationally in one or more of the relevant research areas in population and public health research.
  3. Extent of achievements in Canada and/or internationally in the areas of leadership, mentorship, and capacity building at the individual or institutional level in the area of population and public health research.

**Funding Details:** The total amount available for this funding opportunity is $37,500, enough to fund approximately three awards. The maximum amount per award is $10,000 plus an additional $2,500 for travel and accommodation for an event organized by CIHR.

**Additional Details**

**Internal HRS Deadline:** November 1, 2018

**Sponsor Deadline:** November 15, 2018

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**CIHR – Operating Grant: Geroscience Demonstration Grants**

The Geroscience Demonstration Grants are expected to:
• Accelerate, catalyze, and build capacity for research on the early prevention of chronic diseases in aging using a geroscience approach
• Support the creation of new knowledge to improve our understanding of the relationship between mechanisms in the biological processes of aging and the development of one or several chronic conditions (e.g., diabetes, cancer, neurodegenerative diseases, arthritis, cardio-respiratory diseases)
• Support research using a geroscience approach that could lead to potential clinical impacts.

**Funding Details:** The total amount available for this funding opportunity is $3,600,000, enough to fund approximately 8 grants. The maximum amount per grant is $150,000 per year for up to 3 years for a total of $450,000 per grant. This amount may increase if additional funding partners participate.

**Additional Details**
- **Internal HRS Deadline:** November 1, 2018
- **Sponsor Deadline:** November 15, 2018

**CIHR – Master’s Award: Frederick Banting and Charles Best Canada Graduate Scholarships**

The specific objective of the Government of Canada's Canada Graduate Scholarships program is to help ensure a reliable supply of highly qualified personnel to meet the needs of Canada's knowledge economy. The Canada Graduate Scholarships Master’s Awards are intended to provide special recognition and support to students who are pursuing a Master's degree in a health related field at a Canadian institution. These candidates are expected to have an exceptionally high potential for future research achievement and productivity.

**Funding Details:** The total amount available for this funding opportunity is $7M, enough to fund approximately 400 awards. Trainee stipend: $17,500 for 12 months, non-renewable.

**Additional Details**
- **Contact Correen Smith in Graduate Studies to Apply**
- **Sponsor Deadline:** December 3, 2018

**CIHR – Centres for HIV/AIDS, Hepatitis C and other STBBIs Research**

The Centres for HIV/AIDS, Hepatitis C and other STBBIs Research are expected to improve health and access to effective programs and services for people living with and at risk of HIV, Hepatitis C and other STBBIs, particularly for populations most affected. The specific objectives of the Centres are to:

- foster coordination of research efforts by developing and supporting a network of collaborative Centres;
- develop and/or strengthen high quality infrastructure for implementation science, health services and population health research to enable Canadian HIV, Hepatitis C and other STBBI researchers to conduct innovative, high quality, collaborative research;
- facilitate implementation science, health services and population health research training and mentoring initiatives to strengthen the capacity of trainees; and
- accelerate the translation and uptake of knowledge and implementation of evidence to inform practices, policies and programs through models of integrated knowledge translation and innovative strategies that engage stakeholders and partners (including people living with HIV, community organizations, clinicians, policy makers and relevant networks).

**Funding Details:** The total amount available for this funding opportunity is $10,000,000, enough to fund approximately two to three grants. This amount may increase if additional funding partners participate. Centres may be variable in size; it is anticipated that requested budgets will range from $400,000 to $1,000,000 per annum. The maximum amount per grant is $1,000,000 per year for up to 5 years for a total of $5,000,000 per grant.

**Additional Details**
- **Internal HRS Deadline:** November 27, 2018
- **Sponsor Deadline:** December 11, 2018

**CIHR – Team Grant: SPOR iCT Rewarding Success – Phase 3**

The Strategy for Patient-Oriented Research (SPOR) is a national coalition of federal, provincial and territorial partners (patients and informal caregivers, provincial health authorities, academic health centres, charities, philanthropic organizations, private sector, etc.) dedicated to the integration of research into care. Patient-oriented research refers to a continuum of research that engages patients as partners, focusses on patient-identified priorities and improves patient outcomes. This research, conducted by multidisciplinary teams in partnership with relevant stakeholders, aims to apply the knowledge generated to improve healthcare systems and practices. All recipients of funding through SPOR are required to adhere to the following principles:
• Patients need to be involved in all aspects of the research to ensure questions and results are relevant;
• Decision-makers and clinicians need to be involved throughout the entire research process to ensure integration into policy and practice;
• Funding under SPOR is based on a 1:1 matching formula;
• Effective patient-oriented research requires a multi-disciplinary approach; and
• SPOR is outcome driven and incorporates performance measurement and evaluation as integral components of the initiative.

Funding Details: The total amount available from CIHR for this funding opportunity is $12,000,000, enough to fund approximately five grants. The maximum amount per grant is $600,000 per year for up to four years for a total of $2,400,000.

Additional Details
Internal HRS Deadline: December 20, 2018
Sponsor Deadline: January 10, 2019

CIHR – Team Grant: Transitions in Care
The TiC team grants are expected to:
• Produce results that are applicable, adaptable and ready for equitable spread and scale by a health provider through implementation research that is relevant to patients, communities, and decision-makers;
• Improve health outcomes, patient experience, effectiveness, and lower the cost of care within two (2) or more of the TiC focus areas through identifying, evaluating and implementing evidence-based and/or effective solutions, including eHealth solutions;
• Build novel multi-disciplinary and trans-disciplinary collaborations and partnerships with individuals and organizations in Canada that have interest in transformative research in care transitions by promoting engagement, recognition and respect for health research expertise across an array of health disciplines, research pillars, and industry;
• Build and promote relevant transitions in care research capacity, including training and early career development, by supporting teams that actively engage established researchers, early career investigators, trainees, and knowledge-users.

Funding Details: The total CIHR amount available for this funding opportunity is $9.6 million enough to fund approximately ten (10) grants. This amount may increase if additional funding partners participate.

Additional Details
Internal HRS Deadline: January 10, 2019
Sponsor Deadline: January 24, 2019

CIHR – Team Grant: Canadian Microbiome Initiative 2: Research Teams
The objectives of the Canadian Microbiome Initiative 2 Research Teams funding opportunity are to:
• Create knowledge through translational research on the causational links between microbiome and human health and disease, with consideration of sex as a biological variable and gender as a social determinant of health.
• Encourage interdisciplinary collaborations and foster Canadian expertise in microbiome and human health and disease to build synergies and facilitate the sharing of data and resources.
• Build upon and further the platforms and services provided by the CMI2 Research Core to build synergies, facilitate the sharing of data and resources and facilitate knowledge translation

Funding Details: The total amount available for this funding opportunity is $14,350,000 (not including Supplementary Partner Funding). This amount may increase if additional funding partners participate.

Additional Details
LOI Deadline: November 20, 2018
Internal HRS Deadline: September 10, 2019
Sponsor Deadline: September 24, 2019

Hamilton Health Sciences Health Professional Investigator Operating Grant
The Health Professional Investigator (HPI) Operating Grant provides project funding to principal investigators (PI) who are HHS-employed healthcare professionals. Inter-professional teams, which include physicians, are encouraged, but physicians are not eligible to apply as lead PI for this grant. The HPI Operating Grant is for research initiatives directly relevant to the clinical mission and priorities/strategic plan of HHS (Patients, People, Sustainability, Innovation and Learning). The grant objective is to provide support for pilot studies or research projects that have the potential to lead to larger projects and the possibility of external funding.
The HPI Operating Grant offers an opportunity to foster and support a culture of inquiry for novice to mid-career investigators under the mentorship of experienced researchers.

**Additional Details**

**HRS Deadline:** N/A  
**Sponsor Deadline:** October 31, 2018

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**Escher Fund for Autism: Investigation of F2 Neurodevelopmental outcomes of F0 pregnancy or F1 Neonatal General Anesthesia**

The study by Ju et al, *Role of epigenetic mechanisms in transmitting the effects of neonatal sevoflurane exposure to the next generation of male, but not female, rats*, found neonatal exposure to sevoflurane can affect the next generation of males via germline mediated epigenetic mechanisms, while females were at diminished risk. The study is not the first animal model to observe a next-generation effect of GA. In 1981, Chalon et al found learning retardation in offspring of murine parents exposed to GA in utero—in other words, mental impairment in the grandpups of the exposed gestating dams. See *Exposure to halothane and enflurane affects learning function of murine progeny*. And in 1984 the same lab noted that alterations to reproductive cells of adult male mice via the GA agent enflurane adversely affected learning function of their offspring.

**Funding Details:** $25,000

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**Postdoctoral Funding Opportunity – DeGroote Fellowship Awards**

The Michael G. DeGroote Fellowship Awards are an opportunity for excellent postdoctoral candidates to pursue top-level research training. First awarded in 2008, the awards provide funding to research-intensive individuals looking to further their academic career in the Faculty of Health Sciences at McMaster University.

**Eligibility**

Only candidates who are (a) external to McMaster, or (b) internal students who have yet to begin postdoctoral or health professional degree studies at McMaster, or (c) internal students who began their postdoctoral or health professional degree studies at McMaster no earlier than January 1, 2018, will be eligible for the awards. For candidates who hold (or are completing) a PhD, the proposed supervisor(s) listed in their application must be different than their PhD supervisor. Priority will be given to those applicants whose graduate training has not been exclusively at McMaster.

**Expectations**

It is expected that winning applicants will seek out and attain external funding within their one-year award term. Supervisors are expected to assist their candidates in doing so.

**Further Information**

For more information on the awards, please visit the awards website or send any questions to mgdfa@mcmaster.ca.

**Funding Details:** Each award provides non-renewable funding of $50,000 for one year for successful applicants. The funding is comprised of $40,000 from the Michael G. DeGroote Health Sciences Development Fund and $10,000 contributed by the applicant’s supervisor.

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**Alzheimer Society Research Program (ASRP) 2019 Competition**

The Alzheimer Society Research Program (ASRP) is a successful collaborative initiative of our Federation, within which all the provincial Alzheimer Societies, the Alzheimer Society of Canada (ASC), partners and donors pull together to support research directed at both eradicating dementia and ameliorating the lives of those affected by it. The ASRP provides grants and awards to support Canadian studies that promise new insights into causes, prevention, diagnosis, treatment and management of Alzheimer’s disease and other dementias.

**Awards**

- Doctoral Awards provide an opportunity for promising individuals, pursuing a PhD, to begin the process of becoming future independent investigators in the field of Alzheimer’s disease and other dementias.
• Postdoctoral Awards are for graduates with a PhD or MD who wish to gain additional research experience within an established research environment.

Grants
• New Investigator Grants are designed to help launch the careers of outstanding researchers who are within the first 2 years of their initial academic appointment.
• Regular Grants are designed to fund established researchers.

Funding Details:
• **Doctoral** - $22,000 per year for 3 years.
• **Postdoctoral** - $41,500 per year (PhD) or $51,500 per year (MD) for 2 years.
• **New Investigator Grant** - $75,000 per year for 3 years.
• **Research Grant** - $75,000 per year for 2 years.

**Bill & Melinda Gates Foundation: Grand Challenges Explorations**
The Bill & Melinda Gates Foundation is inviting proposals for the latest round of the Grand Challenges Explorations initiative. Applications on the following six topics will be accepted until Wednesday, November 14, 2018 11:30 am PST:

- Increasing Demand for Vaccination Services
- New Approaches for Manufacturing Gut Microbial Biotherapeutics
- Innovation for WASH in Urban Settings
- New Approaches for Strategic Prioritization of Agricultural Development Policies
- Tools and Technologies for Broad-Scale Pest and Disease Surveillance of Crop Plants in Low-Income Countries
- Innovations Driving Programmatic Performance in Immunization: Service Experience and Data Use + Measurement

We also invite all who have applied to Grand Challenges Explorations over its 10-year history to fill out a short survey. This survey was sent to you on August 2 from our research partner, the National Business Research Institute (NBRI). Thank you to the over 5,000 who have already responded. We will be resending the survey to those who have not yet responded. We hope to learn as comprehensively as possible what direct and indirect impact the initiative has had, whether the proposal was funded by the Gates Foundation or not – and we expect to identify ways we can improve this way of seeking and funding great ideas from all over the world.

**Funding Details:** Initial grants are for USD $100,000 and successful projects are eligible to receive follow-on funding of up to USD $1 million.

**Social Sciences and Humanities Research Council (SSHRC): Partnership Development Grants Collaborative Housing Research Network Initiative**
A new SSHRC/CMHC joint initiative is now available for PDG applicants. SSHRC and CMHC are partnering to fund research related to housing in order to help set the stage for the creation of a Collaborative Housing Research Network. Research projects undertaken by teams composed of academics, as well as non-academics, will focus on 5 priority areas that were determined by CMHC:

- Housing for those in greatest need
- Community Housing Sustainability
- Northern Housing
- Sustainable Housing and Communities
- Balanced Supply of Housing

The first stage of this two-stage competition will be through the Partnership Development Grants competition. Successful applicants will be invited to submit a proposal at the second stage.

**Funding Details:** $75,000 to $200,000 1 to 3 years
Social Sciences and Humanities Research Council (SSHRC): Partnership Development Grant

The objective of the Partnership Development Grants is to provide support to new or existing formal partnerships to:

- Develop research and/or related activities, knowledge mobilization, and the meaningful involvement of students/emerging scholars in the social sciences and humanities, by fostering new partnerships with existing and/or potential partners; or
- Design and test new partnership approaches for research and/or related activities that may result in best practices/models that either can be adapted by others or have the potential to be scaled up to a regional, national, or international level.

**Funding Details:** $75,000 to $200,000 over 1-3 years

**Additional Details**

*To Apply, Contact Christina Pellegrini, Senior Advisor, Development, ROADS at pellegrc@mcmaster.ca or extension 27207*

Canadian Hemophilia Society (CHS) Research Programs: Dream of a Cure

The CHS Dream of a Cure Research Program, through funds provided by the Hemophilia Research Million Dollar Club and the Canadian Hemophilia Society, supports research focused on improving the health and the quality of life of all people with inherited bleeding disorders and finding a cure. The Canadian Hemophilia Society invites applicants to apply for basic scientific research grants in fields relevant to hemophilia A and B, von Willebrand disease, rare factor deficiencies, platelet function disorders (and platelet pathophysiology) and other congenital and acquired bleeding disorders.

**Funding Details:** Individual grants valued at $75,000 per year and per project will be awarded to researchers for a maximum of $150,000 which can be expended over 2 or 3 years.

**Additional Details**

*Internal HRS Deadline: November 1, 2018*

**Sponsor Deadline:** November 15, 2018

*To Apply, Contact Christina Pellegrini, Senior Advisor, Development, ROADS at pellegrc@mcmaster.ca or extension 27207*

Canadian Hemophilia Society (CHS) Research Programs: Pfizer Care until Cure Research Program

This program allows Canadian investigators to conduct research on medical and psychosocial aspects of bleeding disorders, including outcomes evaluation. Grants are awarded for clinical research in fields relevant to improving the quality of life for persons with hemophilia, persons with von Willebrand disease or other inherited bleeding disorders, persons with related conditions such as HIV or hepatitis C, and carriers of an inherited bleeding disorder.

**Funding Details:** Individual grants valued at $75,000 per year will be awarded to researchers for a maximum of $150,000 which can be expended over 2 or 3 years.

**Additional Details**

*Internal HRS Deadline: November 1, 2018*

**Sponsor Deadline:** November 15, 2018

Canadian Hemophilia Society (CHS) Research Programs: Novo Nordisk Psychosocial Research Program

The Canadian Hemophilia Society – Novo Nordisk Canada Psychosocial Research Program was created to engage professionals/graduate students from the allied health disciplines (i.e. Nursing, Physiotherapy & Social Work) in research activities addressed to understanding the psychosocial impact of hemophilia and other inherited bleeding disorders and to improve the quality of life of persons and families whose lives are affected by these disorders. The Research Grants are made possible thanks to generous financial support from Novo Nordisk Canada. Novo Nordisk develops, manufactures and markets products that make a significant difference to patients, the medical profession and society. Novo Nordisk has a leading position within areas such as coagulation disorders, growth disorders and hormone replacement therapy. In addition, Novo Nordisk is also the world leader in diabetes care. The CHS is proud to be in a partnership with Novo Nordisk in order to offer this important Research Program.
Funding Details: The primary intent of this program is to offer one or two $20,000 research grants, to a maximum of $40,000 for one year.

Additional Details
Internal HRS Deadline: November 1, 2018
Sponsor Deadline: November 15, 2018

Hamilton Health Sciences Early Career Awards
The Hamilton Health Sciences Research Early Career Awards are research personnel stipends awarded annually. These Early Career Awards are to be used to help the applicant pursue research in their specialty area through either purchasing a portion of time for the applicant’s salary OR a portion of time for salaries of research personnel who are supervised by the applicant.

Funding Details: Funding will be allocated to support up to eight awards each year. The value of each award will be up to $50,000 annually. Benefits are not included. The duration of the award will be up to three years.

Additional Details
Internal HRS Deadline: N/A
Sponsor Deadline: November 15, 2018

Fulbright Canada: Awards for Canadian Scholars
Fulbright Canada has recently announced the following Awards for Canadian Scholars:

1) Canadian Traditional Scholar Awards, the objective: to enable emerging and established scholars, post-doctoral researchers and experienced professionals to conduct research, teach, or undertake a combination of both activities for one semester or a full academic year at any university or research center of their choice in the United States. Fulbright Canada is particularly interested in encouraging research on contemporary issues relevant to Canada, the United States and the relationship between the two countries. Applicants should also clearly document the need to be in residence in Canada to carry out the project. Additional Details

2) Canadian Visiting Research Chairs are pre-arranged affiliations that allow scholars to conduct research/lecture on subjects important to that university. Partner universities are excited to welcome the Fulbright Visiting Chairs into campus life and encourage them to engage with students, faculty, and the broader community. Fulbright Visiting Research Chairs can guest lecture in university courses, mentor students, lecture in public venues, network, and promote their research, while representing the Fulbright program, and their home and host institutions. Additional Details

Funding Details:
- Canadian Traditional Scholar Awards - up to $12,500 for one semester, September 2019 or January 2020
- Canadian Visiting Research Chairs – up to $25,000 for one semester, September 2019, or January 2020

Internal HRS Deadline: November 1, 2018
Sponsor Deadline: November 15, 2018

Genomic Applications Partnership Program (GAPP)
The GAPP funds public-private research collaborations focused on developing genomics-derived technologies that address opportunities and challenges identified by industry, government, not-for-profits or other “Receptors” of genomics knowledge and tools. The program provides a unique opportunity for Receptor organizations to collaborate with an ‘omics researcher, and to leverage their R&D investments with public funding.

Funding Details: Funding Details: $300,000 to $6 million for 1 to 3 years.

Additional Details
Internal HRS Deadline: November 4, 2018
Sponsor Deadline: November 18, 2018

Canadian Blood Services: BloodTechNet Award Program
The Objective: To support the development of innovative educational projects that network the Transfusion, Cellular Therapy and Transplantation communities in Canada. These projects deliver educational tools and resources that support the development of skills, knowledge, and expertise of the health professionals in this network. The Applicant must be a health professional belonging to the transfusion, cellular therapy and/or transplantation communities in Canada. The Program is targeted towards Medical Lab Technologists, Nurses, and Physicians.

Funding Details: Max of $50,000 for 1 year.
**Canadian Blood Services: Kenneth J. Fyke Award**

The objective: To support health services and policy research to promote the development of evidence-based Canadian practices and policies in blood transfusion, blood stem cell transplantation, organ and tissue transplantation for the benefit of Canadian patients.

**Funding Details:** Max of $100,000 for 1 year.

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**Quebec Consortium for Drug Discovery (CQDM): Quantum Leap**

The objective of the Quantum Leap funding opportunity is to 1) support innovative, translational biopharmaceutical research projects, 2) enable technologies, innovative platforms and/or innovative therapies, 3) fund projects that a) focus on developing cutting-edge technologies with the potential to significantly advance the R&D activities of CQDM’s pharmaceutical members, and b) have potential to significantly improve, facilitate and/or accelerate the drug discovery process, and the development of safer and more effective drugs. The technologies of interest can be at any stage of the drug development process and involve a wide range of therapeutic indications. Projects are associated with specific deliverables and must be ready for use by CQDM pharmaceutical members upon completion.

**Funding Details:** $500,000 - $1,200,000 over 1-3 years.

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**WestGrid: Visualize This! Challenge**

Visualize This! Challenge is a Canada-wide competition that aims to celebrate the innovative ways visualization can help researchers explore datasets and answer important scientific questions. Visualize This! provides an opportunity to challenge your creativity, experiment with new visualization tools, and contribute to the growth of data visualization in Canada. This year the challenge is comprised of two separate competitions:

- Scientific visualization challenge based on a molecular dynamics simulation dataset, and
- Humanities visualization challenge based on the Orlando British Women’s Writing Dataset.

Both datasets will be made available on the competition webpage, and participants may download any time after October 1, 2018. Submissions will be reviewed by members of the Compute Canada Visualization Team. Points will be given for: Interactive visualizations; visualizing the 3D multi-scale nature of the data; Online presentation in a browser; and clear innovative display of multiple variables. Participants from all research fields are encouraged to enter.

**Prize Details:**
- High-capacity external SSD drives
- Free registration and subsidized travel to a WestGrid 2019 Research Computing Summer School
- Your visualization showcased on the websites of Compute Canada, WestGrid, Compute Ontario, Calcul Québec, and ACENET.
- Opportunity to present to the research community at an upcoming Compute Canada/WestGrid event

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**Canadian Open Neuroscience Platform Studentships Program**

Our Scholar program will support and create a new network of highly-qualified personnel who are currently pursuing an advanced degree (e.g. PhD, MS, PharmD, or JD) in order to undertake - for a period of up to one year a specific collaborative project that is directly related to building platforms, resources, datasets, analytics or disseminating neuroscience results that will contribute to the advancement of open neuroscience. Examples of potential projects include:

- a database linking key results across organisms or two or more data modalities;
• building an open science publishing or communication tool for the global dissemination of high dimensional sequencing or gene expression data;
• novel approaches to standardizing large-scale data;
• engaging multiple CONP stakeholders in an open data framework to foster the identification and timely advancement of early-stage clinical targets with therapeutic potential in neurological disorders. Scholars supported by CONP will be encouraged to publish their work in traditional journals, as well as disseminate their work via non-traditional open science platforms relevant for their specific project, whether this be a programming workspace, arXiv, bioRxiv, a blog, or another format.

Funding Details: Up to $25,000 per year.

Additional Details
Internal HRS Deadline: November 16, 2018
Sponsor Deadline: November 30, 2018

ERS and The Union Joint Public Health Fellowship in Respiratory Infections
The ERS and The Union Joint Public Health Fellowship in Respiratory Infections aims to build capacity in the area of respiratory epidemiological/public health, population-based research by providing a fellowship recipient with the opportunity of a 12-month fellowship based at one of The Union’s offices. The first pilot fellowship scheme will take place at The Union’s office in India, with one selected fellow starting a 12-month fellowship between 1 June and 1 November 2019. The fellowship: Project Axshya, a unique civil society initiative, is implemented in India by The Union South East Asia Office supported by The Global Fund. The project is being implemented in 128 districts across 14 states to increase the visibility and accessibility of the TB program services, with special focus on marginalized and vulnerable communities who are at most at risk of developing TB. The project’s key objective is early case detection through active case finding (ACF) among high risk population groups. The key interventions implemented include:

• Door-to-door screening of high-risk population groups for TB
• Health camps in congregate settings like prisons, shelter homes etc.
• Fast tracking of presumptive TB patients in high case load health facilities.
• Active surveillance through village level volunteers in identified villages.

Funding Details: Annual in EURO Gross living stipend (total for 12-month period) 36’000.- (3’000.- monthly) One off travel allowance 1’200.- (one off) Childcare support allowance, if applicable (per one child, total for 12-month period) 4’200.- (350.- monthly) Contribution towards visa / work permit provided by The Union, if applicable 500.- (one off).

Additional Details
Internal HRS Deadline: November 16, 2018
Sponsor Deadline: December 1, 2018

Burroughs Wellcome Fund: Preterm Birth Initiative
The objective of the Preterm Birth Initiative is to 1) increase the understanding of the biological mechanisms underlying parturition and spontaneous preterm birth, 2) stimulate both creative individual scientists and multi-investigator teams to approach the problem of preterm birth using creative, basic and translation science methods. Encouraged to apply:

a) reproductive scientists and investigators who are involved in other areas;
b) postdoctoral fellows nearing their transition to independent investigator status through senior established investigators.
Focus: Molecular and computational approaches (e.g., genetics/genomics, immunology, microbiology, evolutionary biology, mathematics, engineering, and other basic sciences) independently or in conjunction with more traditional areas of parturition research (e.g., maternal fetal medicine, obstetrics, and pediatrics).

Funding Details: $125,000 per year for 4 years.

Additional Details
Internal HRS Deadline: November 20, 2018
Sponsor Deadline: December 4, 2018

MITACS JSPS Summer Program
The Mitacs-JSPS Summer Program, offered in partnership with the Japan Society for the Promotion of Science (JSPS) provides opportunities for graduate students and postdoctoral fellows in Canada to pursue collaborative research in Japan, allowing them to advance their own research while promoting scientific progress in both Japan and Canada.
Program Details

- Open to: graduate students and postdoctoral fellows at Canadian universities in all disciplines
- Citizenship: Canadian citizens and permanent residents
- Funding: JSPS arranges round-trip airfare and insurance. Mitacs and JSPS provide an allowance for the student or postdoctoral fellow (equivalent to 534,000 yen in total). Host supervisors are eligible for a research support allowance.
- Destination: universities and research institutes in Japan
- Project length: 10 weeks (June 11-August 21, 2019; dates are tentative and subject to change)

Funding Details: For each approved award, JSPS will provide:

- Round-trip airfare. Flight arrangements are made by JSPS's designated travel agent based on JSPS regulations.
- Maintenance Allowance (534,000 yen, less $3,000 CAD from Mitacs paid to the Canadian home university), as well as hotel room charges at Narita and Tokyo, and meals and accommodation charges at SOKENDAI.
- Insurance during participant's stay in Japan (full details provided to successful fellows in the JSPS acceptance package)
- A research support allowance of up to 158,500 yen for the host supervisor's research-related expenses.
- No funds will be released if the completed International Pre-Departure Form and/or Mitacs Code of Conduct and Ethics forms are outstanding.
- Travel to the destination prior to the approval of the award is not permitted and neither Mitacs nor JSPS is responsible for any costs incurred before the application is approved.

Additional Details

Internal HRS Deadline: November 21, 2018
Sponsor Deadline: December 5, 2018

CFN Interdisciplinary Fellowship Program 2019

A crucial part of our Canadian Frailty Network’s mandate is to develop the next generation of Highly Qualified Personnel (HQP) – the scientists and educators, clinicians, and health and social services professionals that will improve care for older adults living with frailty. The CFN Interdisciplinary Fellowship Program goes beyond traditional academic and clinical training opportunities by offering enriched experiential learning and interdisciplinary collaboration.

For graduate and PhD students, post-docs and working professionals, the one-year CFN Interdisciplinary Fellowships are an interdisciplinary, experiential program offered in partnership with member institutions and partners across the country.

The 2019 cohort period runs from September 1, 2019 to August 31, 2020. This is the seventh cohort of Fellows, and to-date CFN has funded 61 Interdisciplinary Fellows supervised by 47 network investigators at 24 Host Institutions.

Funding Details:

- Master’s Student Level: CFN $12,500, Partner $12,500, Total $25,000.
- PhD Student Level: CFN $17,500, Partner $17,500, Total $35,000.
- Postdoctoral or Working Professional Level: CFN $25,000, Partner $25,000, Total $50,000.

Additional Details

LOI Deadline: November 13, 2018
Internal HRS Deadline: November 27, 2018
Sponsor Deadline: December 11, 2018

Alex’s Lemonade Stand Foundation: Young Investigator Grants

The Young Investigator grant is a 3-year award designed to support scientists in the early stages of their research careers, such as postdoctoral or clinical fellows. Outstanding mentorship and demonstration of a career plan that shows commitment to pediatric cancer investigation are critical components of a successful application.

Funding Details: $50,000 annually for three years.

Additional Details

Internal HRS Deadline: December 3, 2018
Sponsor Deadline: December 17, 2018

Alex’s Lemonade Stand Foundation: Epidemiology Grants
These awards will support investigators pursuing research studies in human populations using epidemiological approaches aimed at improving our understanding of childhood cancer. This grant mechanism is designed to support hypothesis-driven research that focuses on the epidemiology, early detection and prevention of childhood cancer or comparative effectiveness and outcomes research related to detection, prevention, and treatment.

**Funding Details:** $100,000 annually for two years.

**Additional Details**

**Internal HRS Deadline:** December 3, 2018  
**Sponsor Deadline:** December 17, 2018

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**Michael Degroote Pain Fellowships**

These fellowships aim to encourage and support pain research training and provide salary support to individuals with an exceptional background and an interest in a career path related to pain. Successful candidates of these awards will have the opportunity to work with faculty who are conducting innovative research and are considered among the best in their field.

Funding Details: 2 awards of $60,000 per year.

**Additional Details**

**Internal HRS Deadline:** December 13, 2018  
**Sponsor Deadline:** January 2, 2018

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**Michael Degroote Graduate Studentships**

The awards are designed for candidates who have an exemplary academic record and are interested in pain research within the Michael G. DeGroote Institute for Pain Research and Care (IPRC). This program is funded by an endowment through the generosity of Mr. Michael G. DeGroote.

Funding Details: 3 awards of $20,000 per year.

**Additional Details**

**Internal HRS Deadline:** December 13, 2018  
**Sponsor Deadline:** January 2, 2018

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**Michael Degroote Seed Grants**

The Michael G. DeGroote Institute for Pain Research and Care Seed Grants will provide principal investigators with an opportunity to apply for funds to pursue leading-edge research in pain, following the model of using persistent post-surgical pain to understand chronic pain. The objective is that it will lead to and support grant applications for other major external funding competitions.

Funding Details: 3 awards of $30,000 per year.

**Additional Details**

**Internal HRS Deadline:** December 13, 2018  
**Sponsor Deadline:** January 2, 2018

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**Michael Degroote Catalyst Grant**

MIRA and the Michael G. DeGroote Institute for Pain Research and Care (IPRC) will co-fund a catalyst grant supporting a project that stimulates new collaborations and allows the collection of preliminary data on research that considers pain and aging as central themes. Interdisciplinary teams, involving researchers from at least three different McMaster Faculties, are invited to submit proposals that have clear potential benefits for older adults. A matching contribution of at least $10,000 (at least $5,000 cash, up to $5,000 may be in-kind) is required.

Funding Details: 1 grant funded up to $60,000.

**Additional Details**

**Internal HRS Deadline:** December 13, 2018  
**Sponsor Deadline:** January 2, 2018

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**Age-WELL Core Research Program 2020-2025**

AGE-WELL will provide significant funding for 3 to 5 years to projects that:

- Are driven by real-world problems and challenge areas
- Address specific areas of interest to AGE-WELL and its partners and stakeholders
Focus on innovative technology-based solutions to support older adults and caregivers
Are user-centered, involving end-users and stakeholders in all stages of the research
Deliver not only the technology but the practice, policy, and service delivery models that are needed for the solution to be effective
Use a transdisciplinary approach
Have the potential to lead to economic and social impact
Help AGE-WELL to achieve its mission

Successful applications will also receive a one-year Catalyst Grant, starting April 1, 2019, so that these selected projects can continue to develop their plans. AGE-WELL has partnered with Mitacs and MEDTEQ to provide additional funding as part of this RFP. Additional partners and collaborators may join this funding initiative over the coming months.

**Funding Details:** The maximum investment per Core Research Project is $200,000 per year (commencing April 1, 2020) for a minimum of 3 to a maximum of 5 years, for a maximum of $1,000,000 per grant.

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**ERS Long-Term Research Fellowship 2019**

Long-Term Research Fellowships (LTRF) enable investigators and clinicians in the early stages of their career to carry out basic, translational or clinical research projects. Through this experience, young scientists learn and apply advanced research procedures and techniques not available at their home institute. Since 2015, ERS has increased the number of fellowships on offer by welcoming applicants from scientifically developing countries, and through partnerships with other organizations. Applicants are selected based on their scientific merit and the skills and experience they can bring to a new center.

**Funding Details:** Subsistence monthly rate - €2,900. Child allowance (monthly rate per child) - €380. See additional details for more information.

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**Canadian Cancer Society (CCS): Innovation Grants**

Innovation Grants support the highest quality creative problem solving in cancer research. The goal of the Innovation program is to support the development and testing of unconventional concepts and approaches to address problems in cancer research, enhance our understanding of cancer, and generate new approaches to confront the challenges we face in defeating cancer.

Successfully funded Innovation projects are ideally based on “high risk” ideas that have a strong potential for “high reward”. They are feasible and doable by the applicant(s), but not necessarily based on a significant amount of preliminary data. With strong emphasis on innovation, the program encourages bold attempts to test novel hypotheses and/or generate new knowledge and/or improvements related to cancer prevention, detection, diagnosis, treatment, and support. Therefore, applications that explicitly address the Canadian Cancer Society’s mission to eradicate cancer and enhance the quality of life of people living with cancer are encouraged from across all areas and disciplines of cancer research.

It is hoped that this program will accelerate the introduction of innovation into the entire cancer research system and contribute to the scientific idea pipeline. Proposals with scientific merit that are deemed derivative, pursue next logical steps, or seek to make incremental advancements are not considered innovative. Significant findings from investigators funded by Innovation Grants may be developed further through CCS Research "Innovation to Impact” and “Impact” Grants or operating grants offered by other agencies.

**Funding Details:** Budgets awarded may be up to $100,000 per year and a maximum of $200,000 per grant.

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**Canadian Cancer Society (CCS): Innovation to Impact Grants**

This program is designed to support the logical next steps of a positive, innovative, 'high risk/high reward' research grant, with the goal of working towards or achieving a significant impact on cancer.
The Innovation to Impact Grants are designed to continue the CCS funding pipeline between successful Innovation and Impact Grants. Applicants are cautioned to carefully review the full description for details on the eligibility criteria for this funding opportunity.

Innovation to Impact Grants (i2I) are intended to support the further development of significant findings based on the goals originally explored through a funded CCS Innovation Grant. Note: Only investigators with a funded Innovation Grant with a project end date between January 1, 2016 and July 31, 2019 are eligible for this program.

Applicants are required to articulate significant achievements from the original Innovation Grant (i.e., significant new knowledge, publications, intellectual property, technology development, or relevant endpoints) and clearly describe and justify the progression to the new research proposed. Applicants must also describe the potential for impact of the proposed project on cancer. Investigators looking to explore unexpected outcomes or ideas not originally proposed in a funded Innovation Grant are encouraged to apply for a new Innovation Grant as the Innovation to Impact Grant program is designed to build upon successful outcomes from the objectives of the original Innovation grant.

**Funding Details:** Budgets awarded may be up to $150,000 per year for up to 3 years, to a maximum of $450,000 per grant.

**Additional Details**
Internal HRS Deadline: January 2, 2019
Sponsor Deadline: January 15, 2019

**Canadian Cancer Society (CCS): Travel Awards**
A limited number of Travel Awards to PhD or MD/PhD students, and post-doctoral/medical/clinical fellows are available. The purpose of this program is to defray the travel costs associated with making a scientific presentation as a first author or presenter at a conference, symposium or other appropriate professional meeting.

Applicants must be either a:
- Registered student in a PhD or MD/PhD program
- Post-doctoral fellow (within 5 years of attaining their PhD)
- Medical resident/clinical fellow (within 5 years of attaining their MD)

At the time of the conference, PhD/MD students must be registered at an eligible Canadian host institution.

Trainee positions must be undertaken at an eligible Canadian institution.

Candidates must be attending a conference for the purpose of presenting data (paper or poster presentation) from a cancer-related project on a first-author or presenter basis. Applications will be accepted for conference dates within 6 months of the competition deadline date*. Applications will not be accepted for conferences that have already taken place. Note that acknowledgement of CCS funding must be included in the paper or poster.

*Please note that starting with the January 2019 competition, applications will be accepted for conference dates within 6 months following the funding start date.

**Funding Details:** Eligible expenses include: 1) Conference registration fees; 2) Accommodations; and 3) Transportation and will not exceed $2,000.

**Additional Details**
Internal HRS Deadline: January 2, 2019
Sponsor Deadline: January 15, 2019

**Prostate Cancer Canada and the Movember Foundation: Discovery Grants**
The objective of the Discovery Grants is to support novel and innovative prostate cancer research that will lead to new lines of investigation. The grant is designed to:
- Allow both junior and more established investigators to pursue new avenues of exploration;
- Allow applications from all areas of prostate cancer research;
- Fund applications that will have been evaluated by a rigorous peer-review process that assessed a) innovation, b) track record of investigator team, c) methodology and feasibility of the proposed work, d) potential impact on prostate cancer.

The research project may address any of the broad areas of prostate cancer research including but not limited to biomedical, clinical, population health, and health services/economics.

**Funding Details:** Max of $100,000 over a max of two years.
Ontario-Jiangsu Industrial Research and Development Program (OJIRDP)
The Ontario-Jiangsu Industrial Research and Development Program (OJIRDP) supports joint industrial R&D projects focusing on the development of products or processes that will lead to commercialization in global markets. A partnership of the Jiangsu Science and Technology Department (JSTD) and the Ontario Ministry of Economic Development, Job Creation and Trade (MEDJCT), OJIRDP supports projects leading to commercial success and socio-economic benefits for both jurisdictions.

Funding Details: OCE will support up to 50 per cent of the total eligible direct research costs, to a maximum of $125,000 CAD per project (for academic applicants) or $150,000 CAD per project (for company applicants) for the Ontario portion of the project. JSTD will support up to 50 per cent of the total eligible direct research costs, to a maximum of ¥1 million RMB per project, for the Jiangsu portion of the project.

Cancer Research Society: Operating Grants
The objective of the Operating Grants is to support fundamental, early translational, and environment-cancer research on all types of cancer to contribute to the advancement of science aimed at preventing, detecting and treating this disease.

Funding Details: $60,000 per year for 2 years.

Alzheimer’s Drug Discovery Foundation: The Treat FTD Fund
Launched in 2016, the Treat FTD Fund is a joint effort by the Alzheimer’s Drug Discovery Foundation (ADDF) and the Association for Frontotemporal Degeneration (AFTD) to support clinical development of novel or repurposed drugs for FTD disorders. Running clinical trials in FTD patients will enable investigators to identify optimal approaches to targeting this unique patient population. In addition, trials supported by the Treat FTD Fund will complement efforts such as the FTD Biomarkers Initiative and the Accelerating Drug Discovery for FTD program by employing emergent advances in biomarker development and preclinical research.

Funding Details: $500,000-$2,000,000 for 1-3 years with potential for follow-on funding. Leveraging other sources of funding is encouraged.

Alex’s Lemonade Stand Foundation: Innovation Grants
Alex’s Lemonade Stand Foundation (ALSF) evolved from the front yard lemonade stand of cancer patient Alexandra “Alex” Scott (1996-2004) into a national fundraising movement to find a cure for all childhood cancers. We are dedicated to filling critical funding gaps in pediatric oncology investigation, especially research into new treatments and cures. The Innovation Grant is designed to provide critical and significant seed funding for experienced investigators with a novel and promising approach to finding causes and cures for childhood cancers. Proposals should have clinical translation in view.

Funding Details: $125,000 annually for 2 years.
**Weston Brain Institute Rapid Response**

Rapid Response: Canada 2019, the objective:

1) to support Alzheimer’s and related diseases:
   - Frontotemporal dementia
   - Mild cognitive impairment
   - Vascular contributions and prodromes (to the above), and
2) to provide seed funding for novel, high-risk, high-reward translational research projects.

**Funding Details:** A max of $200,000 over up to 18 months per project.

**Additional Details**

**LOI Deadline:** December 3, 2018

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**Weston Brain Institute Transformational Research**

Transformational Research: Canada 2019, the objective:

1) to support Alzheimer’s and related diseases:
   - Frontotemporal dementia
   - Mild cognitive impairment
   - Vascular contributions and prodromes (to the above), and
2) to support transformative, novel, high-risk, high-reward translational research projects with excellent preliminary data.

**Funding Details:** A max of 1,500,000 over a max of 3 years.

**Additional Details**

**LOI Deadline:** December 3, 2018

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**Weston Brain Institute Postdoctoral Scholars at Oxford**

The Weston Brain Institute Postdoctoral Scholars at Oxford program supports top-tier Canadian postdoctoral scholars by providing international training at the University of Oxford and affiliation with Merton College. Prior to submitting an application, candidates should independently identify a host lab and potential supervisor at the University of Oxford who agrees to supervise them if awarded. Awardees will receive salary support for their postdoctoral positions at Oxford.

**Funding Details:** £57,000 per year (£44,000 per year + benefits) for 2 years.

**Additional Details**

**Sponsor Deadline:** Applications are being accepted on a rolling basis, until 2 positions at a time are filled.

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**Weston Brain Institute International Fellowships: Canada**

Neurodegenerative diseases of aging are among the least understood and most undertreated diseases today. If ignored, the social and economic costs of managing these diseases will continue to rise. Meeting these challenges requires pioneering approaches to accelerating treatments. The Weston Brain Institute is pleased to launch our International Fellowships: Canada program. The program will support top Canadian PhD students to travel to and work in world-renowned international labs for up to 12 months, to further their translational research on neurodegenerative diseases of aging.

**Funding Details:** $60,000 per year, prorated at $5,000 per month to fit shorter travel and specific project needs

**Additional Details**

**Sponsor Deadline:** Applications are being accepted on a rolling basis

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**McMaster University, McMaster Institute for Research on Aging (MIRA), Labarge Centre for Mobility in Aging (LCMA): Matching Funds for Research Opportunities**

The McMaster Institute for Research on Aging (MIRA) aims to optimize the health and longevity of the aging population through leading-edge research, education and stakeholder collaborations. The institute intends to amplify McMaster’s strength in aging-focused research through stimulating new partnerships, facilitating access to research funding, raising the profile of McMaster’s research platforms, and building capacity among students and faculty members. In order to improve the positioning of McMaster’s researchers in external funding competition, MIRA and the Labarge Centre for Mobility in Aging (LCMA) have allocated funding that could be used to match or leverage external funds. This process is intended to be used for requests related to externally funded, peer-reviewed grant competitions that require a matching component.

**Funding Details:** maximum $100,000 (total cash and/or in-kind) non-renewable funding anticipated support 1-2 projects per year.
**Additional Details**
**Sponsor Deadline: Ongoing**

### MITACS Globalink Research Award

The Mitacs Globalink Research Award provides funding for senior undergraduate and graduate students, and postdoctoral fellows in Canada to conduct 12–24-week research projects at universities overseas. The following opportunities support travel and research from Canada to universities in: Australia, Brazil, China, EU member countries: In France, both universities and Inria Research Centres are eligible host institutions, Israel, India, Japan, Korea, Mexico, Norway, Saudi Arabia, Tunisia, United Kingdom, United States.

**Funding Details:** $6,000 to conduct 12-24-week research projects at universities overseas.

### MITACS Accelerate Fellowship

The Mitacs Accelerate Fellowship provides a long-term funding and internship option for master’s and PhD students. Recipients can also access professional development training that helps them ensure project success and gain in-demand career skills. Interested applicants can apply for the Accelerate Fellowship at any time. All other Accelerate program guidelines apply.

**Funding Details:**
- **Master’s students** - $40,000 total research award for 18 mos. Minimum intern stipend is $30,000 and partner organization contribution is $18,000
- **PhD students** - $80,000 total research award for 36 mos. Minimum intern stipend is $72,000 (24,000/year) and partner organization contribution is $36,000

### Weston Brain Institute: Early Phase Clinical Trials: Canada

Neurodegenerative diseases of aging are among the least understood and most undertreated diseases today. If ignored, the social and economic costs of managing these diseases will continue to rise. Meeting these challenges requires pioneering approaches to accelerating treatments. The Early Phase Clinical Trials: Canada program was created to provide funding support for clinical trials and clinical trial sub-studies that have excellent preliminary data. Eligible Principal Applicants must be at or above the level of Assistant Professor or equivalent and be affiliated with a Canada Revenue Agency-qualified donee institution located in Canada. Co-applicants and Collaborators must be at the post-doctoral level or above and can be working outside Canada.

An application requires the submission of a Letter of Intent which will be reviewed by our scientific review committee. Applicants with high potential projects will then be invited to submit a Proposal. Instructions for submitting the Proposal will be forwarded to those invited. Applicants can expect to receive the outcome of their LOI application approximately 2 months after submission.

**Funding Details:** A maximum of $1,500,000 per project over up to 4 years.

### OCE Voucher for Innovation and Productivity II (VIP II) Program

The VIP II program helps established Ontario-based companies develop, implement and commercialize technical innovations by supporting partnerships with publicly-funded post-secondary institutions. Projects funded through VIP II address company needs by enabling the development of new products and/or processes, or facilitating productivity improvements, by leveraging post-secondary institutions’ skills and resources. Projects must ultimately help generate new revenues and create high-value jobs for Ontario companies. You can also leverage your sponsor’s contribution through the NSERC CRD program for additional research funds.

**Funding Details:** The VIP II program supports collaborations between companies and publicly-funded post-secondary institutions for durations of 12 and 24 months to a maximum of $150,000.

*To Apply, Contact Bertha Monrose, Contracts Advisor, MILO at monrose@mcmaster.ca or extension 22416*
MITACS Accelerate Program
Canada’s premiere research internship program provides interns with the opportunity to transfer their skills from theory to real-world application, while companies gain a competitive advantage by accessing high-quality research expertise. Interns spend approximately half their time on-site with the industry partner; the remainder is spent at the university advancing the research under the guidance of a faculty supervisor. Not-for-profit organizations are eligible.

**Funding Details:** Funding starts at $15,000

**Additional Details**
**Sponsor Deadline:** Ongoing

*To Apply, Contact Bertha Monrose, Contracts Advisor, MILO at monrose@mcmaster.ca or extension 22416*

Department of Defense Breast Cancer Research Program (BCRP) Funding Opportunities for Fiscal Year 2018
The BCRP challenges the scientific community to design research that will address the urgency of ending breast cancer. Specifically, the BCRP seeks to accelerate high-impact research with clinical relevance, encourage innovation and stimulate creativity, and facilitate productive collaborations.

**Funding Details:**
- **Breakthrough Award Levels 1 and 2 II:**
  - **Funding Level 1** – Maximum funding of $375,000 for direct costs (plus indirect costs) The maximum period of performance is 3 years.
  - **Funding Level 1 with Partnering PI Option** – Maximum funding of $600,000 for direct costs (plus indirect costs) The maximum period of performance is 3 years.
  - **Funding Level 2** – Maximum funding of $750,000 for direct costs (plus indirect costs) The maximum period of performance is 3 years.
  - **Funding Level 2 with Partnering PI Option** - Maximum funding of $1 million (M) for direct costs (plus indirect costs). The maximum period of performance is 3 years.

**Additional Details**
**LOI Deadline:** November 1, 2018 (A pre-application is required and must be submitted through eBRAP)
**Internal HRS Deadline:** November 8, 2018
**Sponsor Deadline:** November 15, 2018

Department of Defense Duchenne Muscular Dystrophy Research Program (DMDRP) Funding Opportunities for Fiscal Year 2018
Duchenne muscular dystrophy (DMD) affects approximately 1 out of every 3,500 male infants (about 20,000 new cases a year). This form of muscular dystrophy results from mutations in the dystrophin gene that lead to an absence of dystrophin in muscle cells, allowing these cells to be easily damaged. Boys living with DMD experience devastating muscle weakness that affects the skeletal muscles, heart, and respiratory muscles. Symptoms of DMD typically develop prior to age 5, and by age 12 most patients are confined to a wheelchair.

**Funding Details:**
- **Career Development Award** - Maximum funding of $275,000 in direct costs (plus indirect costs) Period of performance not to exceed 2 years.

**Additional Details**
**LOI Deadline:** November 14, 2018 (A pre-application is required and must be submitted through eBRAP)
**Internal HRS Deadline:** November 21, 2018
**Sponsor Deadline:** December 5, 2018