Week of April 20, 2018

Dear colleagues,

Please find below this week’s updates:

- You are invited to register for the upcoming 4th Annual McMaster International Review Course in Internal Medicine (MIRCIM) 2018. It will take place in Krakow, Poland from May 10 – 12, 2018. Further information can be found in the attached invitation or at the website.

- As many of you are aware, there have been significant changes in Canadian tax law. Joe Monaco, who is a local tax law expert, prepared the attached presentation for the HAHSO executive. Feel free to review the attached slide set, but for specific tax advice please consult with your preferred tax professional.

- Congratulations to Dr. Kevin Smith who was recently appointed to the position of President and Chief Executive Office of the University Health Network (UHN). Dr. Smith, who is currently President and Chief Executive Officer of St. Joseph's Health System in Hamilton, Chief Executive Officer of Niagara Health System and holds a part-time faculty appointment in the Department, joins the UHN on May 22, 2018.

- Congratulations to Dr. Bram Rochwerg who received a New Investigator Grant from the PSI Foundation.

- The MD Program’s next Tutorial MacEssentials tutor training will occur on Tuesday, June 26, 2018 from 6:00-9:30 pm in MDCL 2232. It is a 3.5-hour program offered in the evening and is a prerequisite for any physician who has not tutored in the MD Program before but would like to become involved. Faculty members who hope to tutor in the next academic year and who have not tutored before should take this course. For more information, please contact Jane Bennett at bennj@mcmaster.ca

- You are invited to the upcoming Population Genomics Program’s 2nd Annual Workshop taking place on May 28 – 29 in the MDCL. Further information can be found on their website.

- The Perioperative Care Congress will be held on May 11-13, 2018 at the Toronto, Westin Harbour Castle. If you want to upgrade your knowledge and impact your practice, then mark your calendar to attend the only multi-disciplinary conference dedicated to perioperative medicine in Canada. Anesthesiologists, internal medicine specialists, surgeons, hospitalists, pharmacists and allied health care providers will come together for three days to share ideas, debate and learn about leading edge clinical practices to improve perioperative short, intermediate, and long-term outcomes.
Management of Myocardial Injury After Non-cardiac Surgery - MANAGE

Little is known about how to manage myocardial injury after non-cardiac surgery (MINS). Recently presented at the American College of Cardiology Annual Scientific Session: The MANAGE trial showed that dabigatran 110 mg BID among patients with mostly biochemical evidence of myocardial injury after non-cardiac surgery had lower major vascular event rates compared with placebo; bleeding complications were similar. PJ Devereaux will report the results of the first randomized controlled trial in this area.

Perioperative Specific POCUS Pre-conference Course

Target audience: staff physicians, residents or medical students who wish to use point of care ultrasound at the bedside to help refine a list of differential diagnoses and direct management. Course material specifically tailored to clinicians working in perioperative setting, including cardiac, pulmonary and IVC assessment.

Registration, and information: www.periopcongress.org

- Please find attached the April 20 issue of the HRS Funding Opportunities Bulletin

- Please join us at Grand Rounds next week on April 26, 2018 at 8:00 am. Medical Grand Rounds – HHS will be hosting Dr. Ted Xenodematropoulos in MUMC 4E20 who will be speaking on The McMaster Gastroenterology Telemedicine Clinic and e-Consultation: Evolution in Mechanisms of Patient Assessment in Hamilton. Medical Grand Rounds SJH will be hosting Dr. Zain Chagla in the Miller Amphitheatre who will be speaking on VRE – Screening and Controversies. Further information on this event, and many others taking place in the Department, can be found in the ETA Calendar.

If you have anything you would like to share with your colleagues, please submit it to Sara Sellers at sellers@mcmaster.ca

Mark A. Crowther
Professor and Chair, Department of Medicine
Dear Colleagues,

It is with great pleasure that we invite you to attend the 4th McMaster International Review Course in Internal Medicine (MIRCIM), which will take place in the beautiful historic city of Kraków, Poland, on May 10–12, 2018.

MIRCIM has been conceived and developed by the McMaster University Department of Medicine, the birthplace of evidence-based medicine (EBM) and problem-based learning (PBL), and the Polish Institute for Evidence Based Medicine. It is organized in collaboration with Jagiellonian University Medical College and the Polish Society of Internal Medicine in partnership with over 20 national societies of internal medicine from around the world.

The two-day course will be filled with information-packed lectures delivered by an outstanding assembly of speakers who are world-renowned experts in their fields, from authors of clinical practice guidelines to researchers behind breakthrough trials that shape the modern standards in medicine. Our aim has been to deliver up-to-date and reliable knowledge that is useful to general internists, subspecialists, hospitalists, family physicians, residents and fellows in training specialising in internal medicine – and we are proud to say that we have achieved this goal.

The lectures will be delivered on May 11 and 12. On the first day, May 10, the participants will be able to choose from a number of clinical workshops.

The course will take place in the ICE Kraków Congress Centre, located conveniently in the city centre and close to Kraków’s famous tourist attractions. The time spent in Kraków during the course will offer a myriad of opportunities to experience the rich cultural life and remarkable heritage that the city boasts.

In 2017, MIRCIM attracted almost 900 participants from 36 countries. The participants highly praised the quality of lectures, topic selection and social events (see at www.mircim.eu/2017).

We look forward to seeing you in Kraków in May 2018.

Co-chairs of the Organizing Committee

Akbar Panju
MB ChB FRCP(C)
FRCP(Edin)
FRCP(Glasg) FACP

Mark Crowther
MD MSc FRCPC

Piotr Gajewski
MD PhD FACP

Paul O’Byrne
MB FRCP(C) FRSC

Honorary Chair

Piotr Gajewski
MD PhD FACP

www.mircim.eu
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<tr>
<th>Income Type</th>
<th>Current Definition</th>
<th>July 18 Proposed</th>
<th>December 13</th>
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<tr>
<td>Unlisted dividends and shareholder benefits</td>
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<td>Partnership Income</td>
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<td>Income or gains from disposition of property</td>
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<td>Secondary Income</td>
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December 13th changes to the Definition of Excluded Amount (“Not Subject to TOSI”)

- Property transferred in respect of Separation Agreement – breakdown of marriage;

- A taxable capital gain that results on the deemed disposition as a result of the death of a taxpayer;

- A taxable capital gain from the disposition of qualified farm or fishing property or qualified small business corporation shares.
TOSI

MPC

Dr. X

Spouse

C1 < 18

C2 < 24

C3 > 24
TOSI

- Under age 18 – TOSI;
- Age 18 to 24 – TOSI unless:
  - Inherited property;
  - Unrelated Business;
  - Excluded Business – ("20 hour test");
  - Safe harbour capital return;
  - Reasonable return;
- Age 25 and over:
  - Inherited property;
  - Unrelated Business;
  - Excluded Business;
  - Excluded Shares;
  - Reasonable return;
- Age 65 with Spouse – No TOSI
Passive Investment Income Earned by a Private Corporation

“CCPC Deferral Advantage”

- 2018 Budget:
  
  (i) reduce the SBD (first 500K @ 13.5% for Ontario) limit for companies with an associated group based on passive income earned in excess of $50,000 for taxation years beginning after 2018;

  (ii) limited the recovery of RDTOH when an eligible dividend is paid.
Passive Investment Income

- The SBD will be reduced based on an associated group’s passive income;

- Passive Income of between $50,000 and $150,000 will reduce access to the SBD;

- Each passive $1 of income in excess of $50,000 reduces SBD availability by $5;

- Passive Income in excess of $150K eliminates SBD for the year.
## Example

- MPC
- Passive Income $100,000

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<th>Old Rules</th>
<th>New Rules</th>
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<tr>
<td>Net Income $300,000</td>
<td>Net Income $300,000</td>
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<td>SBD $300,000</td>
<td>SBD $300,000</td>
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<tr>
<td>Tax @ 13.5% $40,500</td>
<td>SBD Clawback ($250,000)</td>
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<td>Adj SBD $50,000</td>
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<td>Passive Income $100,000</td>
<td>Tax @13.5% $6,750</td>
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<tr>
<td>Tax @ 50.2% $50,200</td>
<td>Tax @ 26.5% on $250,000 $66,250</td>
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<tr>
<td>Net Before RTDOH $309,300</td>
<td>Passive Income $100,000</td>
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<td>Tax @ 50.2% $50,200</td>
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Net Before RTDOH **$276,800**
This presentation and the materials herein are for general information only and should not be used as a basis for specific action without obtaining further legal and accounting advice.
The MD Program offers this faculty development opportunity in conjunction with the Program for Faculty Development.

This 3.5 hour workshop is required preparation for faculty members who aspire to tutor in the MD Program. It is offered to interested participants before they begin to tutor and includes an opportunity to observe an actual tutorial in progress (arranged at a mutually agreeable time).

This workshop is intended for eligible faculty who expect to tutor in the MD program in the upcoming year. Residents, clinical fellows, and other individuals wanting a broad introduction to PBL are encouraged to register in How Do I Do PBL Tutoring?: Facilitating Problem Based Learning 101, offered by the Program for Faculty Development. Visit fhs.mcmaster.ca/facdev/

The MacEssentials workshop is offered twice each year, typically in January and June.

**Next session:** Tuesday, June 26, 2018 from 6:00 to 9:30 pm in MDCL 2232.

**Objectives:**
At the end of this workshop, participants will:
- Explain PBL as a philosophy and a method.
- Define the active learning components of a student-centered PBL tutorial.
- Explain the group facilitation skills necessary to create effective group process.
- Describe the components that contribute to tutorial assessment in the MD program.

Eligible for FHS Program for Faculty Development Academic Pathways – BEST: 3.5 hrs/session

*For additional information and registration, please contact:*

*Jane Bennett*
bennj@mcmaster.ca
(905) 525-9140  x22981
If you want to upgrade your knowledge and impact your practice, then mark your calendar to attend the only multi-disciplinary conference dedicated to perioperative medicine in Canada, May 11-13, 2018 in Toronto.

Who should attend?
Anesthesiologists, internal medicine specialists, surgeons, hospitalists and allied health care providers who want to promote the exchange of ideas and information on perioperative care between specialties.

The Perioperative Care Congress will provide physicians and surgeons with leading edge clinical practices to improve perioperative short, intermediate, and long-term outcomes and an opportunity for trainees and mid and junior faculty to present research findings.

Program Format
Research competition, lively debates, short interactive sessions, multi-disciplinary discussion, time for Q&A in every session

NEW - Perioperative Research Network Meeting
Residents, fellows, junior and mid-career faculty and allied health professionals who are planning perioperative studies will be individually assigned to a group of seasoned researchers who will address questions and provide feedback on their study design.

Perioperative Specific POCUS Pre-conference Course – Friday, May 11, $700
Target audience: staff physicians, residents or medical students who wish to use point of care ultrasound at the bedside to help refine a list of differential diagnoses and direct management. Course material specifically tailored to clinicians working in perioperative setting, including cardiac, pulmonary and IVC assessment.

Workshop Leaders:
Craig Ainsworth
Cardiology, Critical Care and Echocardiography
Assistant Professor of Medicine, McMaster University

Rohin Malhotra
Diagnostic Radiology, Critical Care and Internal Medicine
Oakville Trafalgar Memorial Hospital
### News & Events

**Early Researcher Awards (ERA) Round 14 Information Session**

**Where:** MDCL 2232  
**When:** Monday April 30, 2018, 11:00am – 12:00pm  

ROADS will be hosting an interactive information session on the Round 14 competition. A representative of the Ministry of Research, Innovation and Science will present an overview of the ERA program and answer any questions you may have.

To register: [https://www.eventbrite.com/e/early-researcher-awards-era-round-14-information-session-tickets-45246131397](https://www.eventbrite.com/e/early-researcher-awards-era-round-14-information-session-tickets-45246131397)

**Additional Info**

If you have any questions regarding the ERA program, please contact Tracy Arabski, Director, HRS, at [arbski@mcmaster.ca](mailto:arbski@mcmaster.ca) or extension 22515.

**HiREB Lunch & Learn – Research Pitfalls – Help for the Study Team**

**Where:** MUMC 1A3  
**When:** Thursday April 26, 2018, 12:00pm-1:00pm  

- Common start-up and monitoring study issues  
- Bring your questions & we’ll tackle answers together

Bring your lunch and get your questions answered by the Research Ethics Officer of the HiREB

Please RSVP to Janice Sancan, Research Ethics Officer [sancan@hhsc.ca](mailto:sancan@hhsc.ca)

Drop ins welcome!

**Brain Tumour Research Symposium**

**Where:** Foothills Medical Centre, HRIC Atrium – 3330 Hospital Dr. NW, Calgary AB  
**When:** Friday, April 27, 2018, 6:00pm-9:00pm

**Who Should Attend?**

- Anyone affected by a brain tumour  
- Volunteers  
- Health Care Professionals  
- Researchers  
- Scientists  
- Donors  
- Students

Register here: [https://braintumour.ca/8194/research-symposium-calgary-2018](https://braintumour.ca/8194/research-symposium-calgary-2018)
**Learning Health System Event**

**Where:** McMaster Innovation Park – 175 Longwood Rd. S. Hamilton ON.

**When:** Thursday April 26, 2018, 12:00pm-2:30pm

Dr. Stelios Georgiades and the McMaster Autism Research Team cordially invite you to a lunch and keynote presentation on “Introducing the Learning Health System” from Dr. Charles Friedman, Chair at the University of Michigan Medical School, who is a world-renowned expert in this field. RSVP is required, kindly respond by Friday April 13th to autism@mcmaster.ca.

A Learning Healthcare System is defined as a system in which science, informatics, incentives, and culture are aligned for continuous improvement and innovation, with best practices seamlessly embedded in the health care delivery process and new knowledge captured as an integral by-product of the delivery experience. This event offers our research community the opportunity to learn more about their role in creating a learning health system here in Hamilton – where data and experience are integrated with evidence, and that knowledge is put into practice. The result is higher quality, safer, more efficient care for our patients.

### Health Research Grant Competitions

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

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<td>CIHR – Canada Graduate Scholarships – Michael Smith Foreign Study Supplement</td>
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<td>CIHR – Team Grant: Transnational Cardiovascular Research Projects</td>
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<td>CIHR - Team Grant: E-Rare-3 Joint Transnational Call (2018)</td>
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<td>CIHR – Team Grant: GENDER-NET Plus</td>
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<td>CIHR Operating Grant: AMR: Point of Care Diagnostics in Human Health – Phase 2</td>
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<td><strong>NEW</strong> CIHR – Fellowship: Banting Postdoctoral Fellowships Program</td>
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*NEW* Funding Opportunity (Non-CIHR)

- **MITACS Globalink Research Award**
- **Hamilton Health Sciences (HHS) Clinical Health Professional Personnel Award (CHPA)**
- **Ontario Centres of Excellence Health Technologies Fund (HTF) 3rd Round**
- **National Multiple Sclerosis Society: Pilot Research Grants**
- **Ontario Trillium Foundation (OTF): Grow Grants**
| *NEW* The Centre for Aging + Brain Health Innovation (CABHI): Researcher-Clinician Partnership Program (RCP2) |  | N/A | May 18 |
| Alex’s Lemonade Stand Foundation: Reach Grants |  |  | May 7 | May 21 |
| Alex’s Lemonade Stand Foundation: ‘A’ Awards |  |  | May 7 | May 21 |
| *NEW* Public Works and Government Services Canada: Innovation for Defence Excellence and Security (IDEas) |  |  | May 10 | May 24 |
| *UPDATED* Hamilton Scleroderma Group/Scleroderma Society of Ontario (HSG/SSO) Call for Proposals for Peer Reviewed Funding |  | N/A | May 30 |
| Hamilton Health Sciences (HHS) Health Professional Investigator Operating Grant Program |  | N/A | Jun 1 |
| ALS Canada: ALS Canada Project Grant Program 2018 |  |  | May 25 | Jun 8 |
| *NEW* Mitacs Globalink Research Internship (GRI) |  |  | May 30 | Jun 13 |
| Crohn’s & Colitis Foundation: Grants |  |  | May 1 | Jun 15 | Jul 1 |
| Brain Tumor Funders’ Collaborative: Immunotherapy for Primary Human Brain Tumors |  |  | May 11 | Jun 29 | Jul 13 |
| The Royal-Mach-Gaensslen Prize for Mental Health Research |  |  |  | Jul 1 | Jul 15 |
| *NEW* Canadian Cancer Society: Chordoma Research Grants |  |  | May 1 | Jul 2 | Jul 16 |
| MRIS Early Researcher Awards Round 14 (Please inform HRS of your intent to apply) |  | May 29 | Jun 1 | Aug 7 |
| NICHD Early Researcher Awards |  |  | May 29 | Jun 1 |
| NICHD Early Researcher Awards |  |  | May 29 | Jun 1 |
| The Michael J. Fox Foundation: Alpha-Synuclein Biology and Therapies |  |  | May 31 | Aug 3 | Aug 20 |
| The Michael J. Fox Foundation: Biomarkers of Protein Handling/Autophagy, Exosomes and Lipids |  |  | May 31 | Aug 3 | Aug 20 |
| The Michael J. Fox Foundation: GBA Biology and Therapies |  |  | May 31 | Aug 3 | Aug 20 |
| The Michael J. Fox Foundation: Non-Pharmacological Interventions for Gait and Balance Disturbances |  |  | May 31 | Aug 3 | Aug 20 |
| Health Quality Ontario: Adopting Research to Improve Care (ARTIC) Program |  |  | May 25 | Sep 10 | Sep 24 |
| Ontario Genomics: Genomic Applications Partnership Program (GAPP) Round 12 (please inform HRS of your intent to apply) |  | Apr 23 | May 7 | Oct 1 |
| McMaster University, McMaster Institute for Research on Aging (MIRA), Labarge Centre for Mobility in Aging (LCMA): Matching Funds for Research Opportunities |  |  |  | Ongoing |
| MITACS Accelerate Fellowship |  |  |  | Ongoing |
| Weston Brain Institute: Early Phase Clinical Trials: Canada |  |  |  | Ongoing |
| Simons Foundation, Simons Foundation Autism Research Initiative (SFARI): SFARI Explorer Award |  |  |  | Ongoing |
| OCE Voucher for Innovation and Productivity (VIP I) Program |  |  |  | Ongoing |
| OCE Voucher for Innovation and Productivity II (VIP II) Program |  |  |  | Ongoing |
| TalentEdge Internship Program (TIP) |  |  |  | Ongoing |
CIHR Research Network: Rare Diseases

This funding opportunity is designed to support a national network organized to:

- Identify instances where Canadian model organism expertise is relevant to a newly discovered disease gene. When such instances are found, a research project would be initiated to explore the functional characterization of the gene. On an annual basis, it is anticipated that this network would catalyze between 15-20 catalytic research projects per year.

- Establish partnerships with and support the development of programs in other regions/countries that are modelled on the Canadian "Rare Diseases: Models & Mechanisms" Network funded through the first iteration of this program. These partnerships should allow genes for which no compatible model can be identified in Canada to be studied in other countries, and allow genes identified by clinicians in other countries to be studied by Canadian biomedical scientists.

- Develop and implement innovative knowledge translation strategies/activities to link the clinical genetics and model organism research communities together.

**Funding Details:** The total amount available from CIHR for this funding opportunity is $1,120,000, in addition, up to $560,000 is being provided by Genome Canada, enough to fund one (1) national network. This amount may increase if additional funding partners participate. The maximum amount to fund one (1) national network is $420,000 per year for up to 4 years.

**Additional Details**

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<th>Internal HRS Deadline</th>
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<td>May 1, 2018</td>
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CIHR – Travel Awards – International Course on Antibiotics and Resistance (ICARE)

ICARE was conceived by an international group of thought leaders from the Institut Pasteur, Harvard Medical School, McMaster University, biotech, diagnostic, and pharma industry, and teaching hospitals. The faculty is composed of 35 internationally recognized scientists and physicians who have made important contributions to antibiotic development, and infectious diseases and resistance management. Faculty will be in residence for a minimum of 2 days and accessible for informal interactions. Graduates will emerge with a state-of-the-art understanding of existing antibiotics: modes of action, pharmacology, toxicology, mechanisms of resistance, impact of antibiotics on human and other ecologies, current approaches for mining chemical space for antimicrobial activity, the process of advancing hits to leads, the application of next generation nucleic acid-based technologies for antibiotic discovery and resistance detection, and perhaps, most importantly, training and experience in thinking creatively and innovatively about solutions to the problem. The course aims to build an international cadre of collaborative, well networked, and highly trained specialists.

**Funding Details:** The total funds available for this funding opportunity is $9,900, enough to provide three (3) travel awards of up to $3,300 each.
**CIHR – Operating Grant: Active and Assisted Living Program**

By funding the development of packages integrating different solutions, the AAL Programme aims to create evidence of improved quality of life, of perceived added value by end-users, of usefulness and of effectiveness of the solutions, as well as of their reliability, security and financial viability, including positive business cases for potential payers.

Impact will be assessed via:

- Expected impact on quality of life
- Expected impact on the market

For a complete description of these expectations, please refer to the [Active and Assisted Living website](#).

**Funding Details:** The total amount available for a Canadian-based applicant for this funding opportunity is $353,000 (CAD), enough to fund approximately one (1) grant. This amount may increase if additional funding partners participate. The maximum amount per grant is $117,666 (CAD) per year for one (1) grant for a maximum of three (3) years.

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**CIHR – Operating Grant: Network Environments for Indigenous Health Research**

The purpose of the Network Environments for Indigenous Health Research (NEIHR) is to build on previous efforts of the Network Environments for Aboriginal Health Research (NEAHR), initially launched in 2007, and the Indigenous Mentorship Network Program (IMNP), initially launched in December 2016, by establishing a solid foundation for Indigenous health research driven by, and grounded in, Indigenous (i.e., First Nations, Inuit and Metis) communities in Canada. While NEAHR was revolutionary for its time, NEIHR will take a broader and more sophisticated approach to Indigenous health research and capacity building not just by focusing on individuals (e.g., supporting trainees and researchers), but also by concentrating on Indigenous communities, and social structures (e.g., educational systems, institutions, research infrastructures, policy apparatus, etc.).

**Funding Details:** The total amount available for this funding opportunity is $900,000, enough to fund approximately 12 grants. The maximum amount per grant is $75,000 per year for up to 1 year.

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**CIHR – Canada Graduate Scholarships – Michael Smith Foreign Study Supplement**

The specific objectives of this funding opportunity are:

- to support high-caliber Canadian graduate students in building global linkages and international networks through the pursuit of exceptional research experiences abroad; and
- to strengthen the potential for collaboration between Canadian institutions and other research institutions outside of Canada.

**Funding Details:** The total amount available for this funding opportunity is $270,000, enough to fund approximately 45 awards. The maximum amount per award is $6,000 for a defined research study period outside of Canada for a minimum of two months to a maximum of six months.
**CIHR – Team Grant: Transnational Cardiovascular Research Projects**

The ERA-CVD JTC2018: Transnational Cardiovascular Research Projects driven by Early Career Scientists is expected to:

- foster transnational cooperation of European countries and beyond, and to coordinate research efforts and funding programs of the ERA-CVD partner countries with Canada
- promote co-operation and interchange between Early Career Scientists and thus enable international collaboration and new consortia establishment in cardiovascular research,
- enable capacity building and empowering of Early Career Scientists by providing opportunity to independently develop and perform highly innovative research projects,
- add value in funding the collaboration over individual projects by sharing of resources (e.g., models, databases, diagnosis etc.), harmonization of data, sharing of specific know-how and/or innovative technologies, etc.

**Funding Details:** The total amount available for Canadian applications is Can$ 585,000, which is enough to fund approximately two (2) grants. This amount may increase if additional funding partners participate. The maximum amount available per grant to Canadian participants in transnational consortia is Can$ 97,500 per year for up to three (3) years for a total of Can$ 292,500, per grant.

**Additional Details**

**Internal HRS Deadline:** June 1, 2018  
**Sponsor Deadline:** June 15, 2018

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**CIHR Team Grant: E-Rare-3 Joint Transnational Call (2018)**

There are at least 7,000 distinct rare diseases, the great majority being of genetic origin. Although individually rare, taken together rare diseases affect at least 26-30 million people in Europe alone. Moreover, they represent a major issue in health care: a large number of these diseases have an early or very early onset and/or lead to a significant decrease of life expectancy. Moreover, most of them cause chronic illnesses with a large impact on quality of life and the health care system. Therefore, research on rare diseases is needed to provide knowledge for prevention, diagnosis and better care of patients. Yet, research is hampered by lack of resources at several levels:

1. Few scientists work on any given specific disease,
2. There are few patients per disease and they are scattered over large geographic areas, causing difficulties to assemble the necessary cohorts,
3. Existing databases and bio-material collections are usually local, small, and not accessible or standardised,
4. The complex clinical phenotypes of these diseases require interdisciplinary cooperation to improve research and treatment.

The specificities of rare diseases - limited number of patients, scarcity of relevant knowledge and expertise, and fragmentation of research - single them out as a distinctive domain of very high European added-value. Rare diseases are therefore a prime example of a research area that necessitates collaboration/coordination on a transnational scale. In this context, the ERA-NET “E-Rare” for research programs on rare diseases has been extended to a third phase “E-Rare-3” (2014-2019) to further help in coordinating the research efforts of European, Associated and non-European countries in the field of rare diseases and implement the objectives of the International Rare Disease Research Consortium (IRDiRC). CIHR is pleased to be partnering with the Fonds de recherche du Québec – Santé (FRQS) once again in the context of this ERA-Net.

**Funding Details:** The total amount available for this funding opportunity is $2,000,000, enough to fund 5-6 grants. This amount may increase if additional funding partners participate. The maximum amount per grant is $125,000 per year for up to 3 years for a total of $375,000 per grant. Of this $2,000,000, $500,000 is available to fund applications relevant to the mandate of the Fonds de recherche du Québec – Santé FRQS.

**Additional Details**

**Internal HRS Deadline:** June 5, 2018  
**Sponsor Deadline:** June 19, 2018

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**CIHR – Team Grant: ERA-Net PerMed**

The overall aim of the call is to fund projects showing clinical feasibility of PM in complex diseases (including multifactorial, monogenic and other diseases). By feasibility is meant the demonstration of significant and clinically relevant improvement of current diagnostics and/or therapeutics, based on improved understanding of underlying molecular mechanisms. Applicants are expected to combine pre-clinical and/or clinical research with bio-informatics components to enable data quality on one side and the potential applicability for health care providers on the other side.
**Funding Details:** The total amount available to Canadian researchers from CIHR and FRQS is $4,587,500 CAD, enough to fund ten (10) grants. This amount may increase if additional funding partners participate. The maximum amount available is $150,000 CAD per year for up to three (3) years for a total of $450,000 CAD, per grant.

**Additional Details**

Internal HRS Deadline: June 21, 2018  
Sponsor Deadline: July 5, 2018

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**CIHR – Team Grant: GENDER-NET Plus**

The aim of the Joint Call is to enable scientists in different countries to build an effective collaboration on a common interdisciplinary Collaborative Research Project (CRP) based on complementarities and sharing of expertise, with a clear translational research approach.

The specific objective of this Joint Call is to advance gender equality in research through institutional change and to foster the integration of SGBA into research, contents and funding programs.

**Funding Details:** The total amount available for Canadian researchers from CIHR is $1,500,000 CAD, enough to fund five (5) grants. The maximum amount available is $100,000 CAD per year for up to three (3) years for a total of $300,000 CAD, per grant.

**Additional Details**

Internal HRS Deadline: July 2, 2018  
Sponsor Deadline: July 16, 2018

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**CIHR Operating Grant: AMR: Point of Care Diagnostics in Human Health – Phase 2**

The Antimicrobial Resistance: Point of Care Diagnostics in Human Health Phase 2 funding opportunity is expected to:

- Improve rational use of antibiotics and clinical management by increasing availability, timeliness, and uptake of clinically relevant point-of-care diagnostic tools in AMR.
- Integrate evidence-informed therapeutic approaches and prevention interventions into health care practice and policy.
- Determine commercial viability and show direct clinical applicability of a technology or tool that has passed the preliminary design developmental phase.
- Enhance capacity to conduct international, intersectoral and interdisciplinary AMR research through collaboration and training of researchers and health care professionals.

**Funding Details:** The total amount available for this funding opportunity is $2,025,000, enough to fund approximately 3 grants. The maximum amount per grant is $225,000 per year for up to 3 years for a total of $675,000 per grant.

**Additional Details**

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

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**CIHR – Clinical Trials Network in HIV/AIDS (2018)**

The Clinical Trials Network in HIV/AIDS is expected to:

- Develop and implement a strategic, outcome-oriented clinical trials research agenda to ensure alignment with current and emerging priorities in HIV, hepatitis C and/or other STBBIs and related health conditions;
- Sustain a high quality national infrastructure (including methodological expertise, data management and analysis, research support staff and regulatory expertise) to enable Canadian researchers to collaboratively and efficiently conduct innovative and excellent clinical trials and related research across Canada and internationally;
- Accelerate the translation and uptake of new knowledge into clinical applications and guidelines for patient care to support the adoption of best practices by clinicians, caregivers and patients;
- Engage stakeholders and partners (including people living with HIV, hepatitis C and/or other STBBIs; community organizations; Indigenous peoples; clinicians; policy makers; and relevant national networks) in CTN activities and governance committees to ensure their active and meaningful involvement;
- Strengthen Canadian research capacity to conduct and apply clinical research through training and mentoring initiatives; and
- Strengthen the networking and partnership strategies and secure additional funding to maximize the impact and outcomes of the Network and work toward sustainability.
**Funding Details:** The total amount available for this funding opportunity is $22,850,000, enough to fund 1 grant. This amount may increase if additional funding partners participate. The maximum amount is $4,570,000 per year for up to 5 years.

**Additional Details**

**Internal HRS Deadline:** August 28, 2018  
**Sponsor Deadline:** September 11, 2018

**CIHR – Fellowship: Banting Postdoctoral Fellowships Program**

The fellowships will be known as the Banting Postdoctoral Fellowships, in memory of Sir Frederick Banting, the Canadian physician, researcher, Nobel laureate and war hero who, together with his assistant Dr. Charles Best, is credited with the discovery of insulin. The Banting Postdoctoral Fellowships program provides funding to the very best postdoctoral applicants, both nationally and internationally, who will positively contribute to the country's economic, social and research-based growth. 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.

**Funding Details:** The total amount available for this funding opportunity is $9,800,000, enough to fund approximately 70 awards. The maximum amount per award is $70,000 (taxable) per year, for up to two (2) years and a total of $140,000 per award. The funding is not renewable.

**Additional Details**

Contact Correen Smith in Graduate Studies to Apply  
**Sponsor Deadline:** September 19, 2018

**CIHR – Operating Grant: Collaborative Health Research Projects (NSERC Partnered) 2018-2019**

In the context of improved health for Canadians, the objectives of the Collaborative Health Research Projects (CHRP) Initiative are to:

- Translate research results to knowledge/technology users (KTUs) and other stakeholders;
- Encourage the natural sciences and/or engineering and health research communities to collaborate and integrate their expertise;
- Advance interdisciplinary research leading to knowledge and technologies;
- Benefit Canada by improving the Canadian healthcare system and/or services;
- Lead to economic opportunities in Canada (where appropriate); and
- Provide training opportunities in collaborative and interdisciplinary research of relevance to health, while preparing them for employment opportunities in the private, public or not for profit sectors.

**Funding Details:** The total amount available for this funding opportunity is $24.875 million. The maximum duration of support for any one grant is three years.

**Additional Details**

**LOI Deadline:** May 29, 2018  
**Internal HRS Deadline:** October 23, 2018  
**E-approval Competition**  
**Sponsor Deadline:** October 30, 2018

**MITACS Globalink Research Award**

Mitacs is accepting applications for competitive international research opportunities for student travel from Canada. They recommend that students apply by May 2018 for travel planned in Fall 2018.

**Funding Details:** The Mitacs Globalink Research Award provides $6,000 for senior undergraduate and graduate students in Canada to conduct 12–24-week research projects at universities overseas.

**Additional Details**

**Sponsor Deadline:** May 2018
Hamilton Health Sciences (HHS) Clinical Health Professional Personnel Award (CHPA)
The Hamilton Health Sciences Clinical Health Professional Research Personnel Award is a one-time personnel stipend award. The award is to be used to help a suitably qualified non-physician health professional who has demonstrated an aptitude for research to pursue research in their discipline, by providing protected time through financial support for a portion of the applicant’s salary.

Funding Details: The value of the award will be up to $50,000

Additional Details
Sponsor Deadline: May 1, 2018

Ontario Centres of Excellence Health Technologies Fund (HTF) 3rd Round
The Health Technologies Fund (HTF) supports the development of made-in-Ontario health technologies by accelerating evaluation, procurement, adoption and diffusion in the Ontario health system. HTF is a program of the Government of Ontario’s Office of the Chief Health Innovation Strategist (OCHIS), administered by Ontario Centres of Excellence. OCHIS’ mandate is to strengthen Ontario’s health innovation ecosystem.
HTF fosters partnerships between publicly funded health service providers (HSPs), patients, academia and industry to drive collaboration that improves patient outcomes, optimizes the impact of investment in health innovation and scales health innovation companies.

Funding Details:
• Pre-Market Evaluation projects will support up to 50 per cent of the eligible project cash costs up to a maximum amount of $500,000 for a term of up to 24 months.
• Early Adoption projects will support up to 50 per cent of the eligible project cash costs up to a maximum amount of $1,000,000 for a term of up to 24 months.

Additional Details
Internal HRS Deadline: April 23, 2018
Sponsor Deadline: May 7, 2018

National Multiple Sclerosis Society: Pilot Research Grants
Researchers who have completed their post-doctoral training, and who are considered eligible by their institutions to apply for a research grant, are invited to apply. Individuals who are currently postdoctoral fellows or the equivalent, or who are graduate/medical students or residents, are not eligible for support under this program. Applicants are not eligible to apply if they have an existing National MS Society pilot research award that expires later than the application deadline.

Funding Details: Maximum $50,000 for 1 year

Additional Details
LOI Deadline: May 7, 2018 (Pre-Application)
Internal HRS Deadline: April 25, 2018
Sponsor Deadline: May 9, 2018

Ontario Trillium Foundation (OTF): Grow Grants
OTF recognizes that building healthy and vibrant communities takes time and resources. The Grow Investment Stream supports projects that are based on evidence and deliver on specific Grant Results in order to contribute to the longer-term goal of the related Priority Outcome. Projects funded in the Grow Investment Stream are based on robust planning, and deliver positive change which is achieved by replicating, adapting, or scaling existing proven programs

Funding Details: $50,000 to $250,000 per year for 2 -3 years.

Additional Details
LOI Deadline: April 25, 2018
Internal HRS Deadline: May 2, 2018
Sponsor Deadline: May 16, 2018
The Centre for Aging + Brain Health Innovation (CABHI): Researcher-Clinician Partnership Program (RCP2)

The Centre for Aging + Brain Health Innovation (CABHI): CABHI is a solution accelerator for the aging and brain health sector. Our driving purpose is to facilitate the improvement of healthcare outcomes for older adults by fostering ground-breaking collaborations among leading global innovators and seniors’ care organizations in North America and around the world.

Program Objective: This program is designed to enhance the effectiveness of connecting point of care clinicians in the senior care sector with university-based researchers to collaboratively design, test and validate innovative products, services or health practice in the aging and brain health sector. Through RCP2, CABHI will provide up to $500,000 in funding per project to support those project costs directly associated with the trial testing of an innovative solution at an advanced stage of development within an aging population group in North America.

Challenge Sets: CABHI will direct funding at innovations addressing challenge sets listed below:

- **Aging in place**: solutions that enable older adults with dementia to maximize their choice, independence and quality of life to enable aging in the most appropriate setting
- **Care support**: solutions that support caregivers (formal and informal) in providing care to older adults with dementia
- **Care coordination and navigation**: solutions that help older adults, caregivers and healthcare providers coordinate care and transitions for older adults with dementia
- **Cognitive health**: solutions that focus on health promotion, prevention, early diagnostics, and slow the progression of cognitive impairment for aging adults

Eligibility: Teams may include researchers, clinicians, educators, industry partners and/or end-users located worldwide. However, each team must include at least one clinician and one researcher; one of whom must be identified as the project’s Principal Investigator, who must be employed by an institution that is a Canada Revenue Agency “qualified donee” located in Canada.

Funding Details: Through RCP2, CABHI will provide up to $500,000 in funding per project. Timeline not to exceed 15 months.

Additional Details
Sponsor Deadline: May 18, 2018
*If you are interested in submitting an application, please contact the McMaster Industry Liaison Office (MILO): Carmen Carrasquilla at carrasc@mcmaster.ca Ext. 21088*

Alex’s Lemonade Stand Foundation: Reach Grants

The purpose of the Reach Grant is to advance ALSF’s mission to find cures and better treatments for childhood cancers by providing support to move hypothesis-driven research into the clinic. Significant barriers exist that impede the translation of innovative and important ideas to the clinic. The Reach Grant seeks to remove one of these barriers by providing support for important preclinical projects that are necessary to move a study from the pre-clinical arena into a clinical trial. Thus, the goal of this award is to support selected late translational studies. Preference will be given to those research projects which, if funded, will likely result in the initiation of a clinical trial two to three years from the start of the project.

Funding Details: The award is up to $125,000 annually for two years.

Additional Details
Internal HRS Deadline: May 7, 2018
Sponsor Deadline: May 21, 2018

Alex’s Lemonade Stand Foundation: ‘A’ Awards

ALSF is excited to commit substantial resources to early independent career scientists that want to establish a career in pediatric oncology research. An original project that is not currently funded should be proposed. Demonstration of a future commitment to pediatric cancer research is expected, as well as institutional support for the career development of the investigator. These are key components of a successful application. Important: There are new eligibility criteria and other changes to this grant category.

Funding Details: Initial Awards are for $800,000 over 4 years (no more than $200,000 in any given year).
Public Works and Government Services Canada: Innovation for Defence Excellence and Security (IDEaS)

Are you an innovator? Regardless if you are working from your home, an academic in a university lab or a scientist in a small or a major corporation, the Innovation for Defence, Excellence and Security (IDEaS) program is looking for your solutions to help resolve defence and security challenges. This is your opportunity to showcase your innovative ideas. In April 2018, IDEaS launched its inaugural public Call for Proposals (CFP). This Competitive Projects (CFP) is now open with 16 defence and security challenges in many domains. Check the challenges today and see where your ideas may be part of the solution.

Funding Details: Maximum $200,000 for a maximum of 6 months

Hamilton Scleroderma Group/Scleroderma Society of Ontario (HSG/SSO) Call for Proposals for Peer Reviewed Funding

The aim is to foster research in systemic sclerosis, and to “seed fund” projects to gather suitable preliminary data to be competitive in larger grants. Faculty at McMaster University are eligible to apply. The research project must be of direct relevance to systemic sclerosis, and ideally will generate pilot data with which to support an application for funding from other sources.

Funding Details: $25,000 maximum per scholarship for one year

Hamilton Health Sciences (HHS) Health Professional Investigator Operating Grant Program

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.

Funding Details: up to $15,000 per grant, three grants available for a one-year term.

ALS Canada: ALS Canada Project Grant Program 2018

The 2018 Project Grant Program encompasses applications previously designated for Discovery, Bridge or Clinical Management Grant competitions. The purpose of the program is to invest in the best possible projects that are i) novel research approaches, supported by sound rationale and a feasible experimental plan, but not necessarily preliminary data, ii) part of an ongoing ALS research program, and aimed toward the vision of ALS Canada, which is “A future without ALS” or iii) research focused on avenues to maximize function, minimize disability and optimize quality of life through symptom management, and support to families and persons or families living with ALS. Examples include, but are not limited to, management of secretions and cramps, psychological interventions to address mental health issues, nutritional interventions, respiratory care, engineering applications to reduce physical limitations, and programs to address the needs of caregivers.
Funding Details: Up to $1,000,000 available (anticipated 8 x $125,000 grants for use over 1 or 2 years)

Additional Details
Internal HRS Deadline: May 25, 2018
Sponsor Deadline: June 8, 2018

Mitacs Globalink Research Internship (GRI)
The Mitacs Globalink Research Internship is a competitive initiative for international undergraduates from Australia, Brazil, China, France, India, Germany, Mexico, Saudi Arabia, Tunisia, and Ukraine. From May to October of each year, top-ranked applicants participate in a 12-week research internship under the supervision of Canadian university faculty members in a variety of academic disciplines, from science, engineering and mathematics to the humanities and social sciences.

• April to June 2018: Professors submit research projects to Mitacs. All accepted projects are made available to student applicants in an online database. Professor project proposals are due June 13, 2018, by 1 p.m. PT, for 2019 Globalink Research Internships.
• July to September 2018: International students submit applications and select research projects from the online database.
• October to December 2018: Mitacs provides professors with proposed student candidates for their project, including application details, statement of research interests, CV, transcripts, and references. Professors are then encouraged to contact or interview the suggested students and provide feedback to Mitacs.
• January to April 2019: Professors and their accepted student(s) arrange pre-internship details (e.g., reading to be completed beforehand) while Mitacs oversees logistics and coordinates with university administrative offices.
• May to September 2019: Globalink Research Interns arrive in Canada and work with supervising professors for 12 weeks on their research project.

Additional Details
Internal HRS Deadline: May 30, 2018
Sponsor Deadline: June 13, 2018

Crohn’s & Colitis Foundation: Grants
The Crohn’s & Colitis Foundation has recently announced the following funding opportunities:
1) The Litwin IBD Pioneers Initiative, the objective:
   • to support innovative clinical and translational research projects with the potential to impact the treatment of inflammatory bowel disease (IBD) patients in the near future,
   • to encourage novel research into the diagnosis, identification of clinically relevant subsets, treatments, and cures for IBD,
   • to fund innovative pilot research for scientists to test their initial ideas and generate preliminary data.

2) Senior Research Awards, the objective: to provide established researchers with funds to generate sufficient preliminary data to become competitive for funds from other sources.

Funding Details:
• Litwin IBD Pioneers Initiative: maximum $130,000 (including 10% direct costs), maximum2 years
• Senior Research Awards: maximum per year $115,830 (direct costs up to $105,300 per year; indirect costs 10% of direct costs, or up to $10,530), for 1 –3 years

Additional Details
LOI Deadline: May 1, 2018
Internal HRS Deadline: June 15, 2018
Sponsor Deadline: July 1, 2018

Brain Tumor Funders’ Collaborative: Immunotherapy for Primary Human Brain Tumors
The Brain Tumor Funders’ Collaborative invites responses to its current funding initiative focused on understanding the complex dynamics among the constituents comprising the human neuro-immune system, the heterogeneity of the primary brain tumor, and the brain environment. The BTFC is requesting proposals on the role of the neuro-immune system in the origin and progression of the immune responses in primary human brain tumors with the hope of developing immunotherapies for treatment of these tumors
in patients. The initial response to the RFP requires pre-proposals describing studies on the complex roles of immune responses in the context of primary brain tumors in pediatric and/or adult human patients.

**Funding Details:** maximum of $250,000 for each project per year for three years

**Additional Details**
LOI Deadline: May 11, 2018
Internal HRS Deadline: June 29, 2018
Sponsor Deadline: July 13, 2018

### The Royal-Mach-Gaensslen Prize for Mental Health Research
The Royal-Mach-Gaensslen Prize for Mental Health Research was established in 2015 and is awarded annually to recognize and support rising star Canadian research scientists with a focus in the area of mental health. This annual national Prize provides funding to outstanding rising star researchers who are affiliated with a Canadian academic or clinical research institution in the field of mental health, to encourage them to continue to pursue their research interests in Canada. It recognizes those with a demonstrated track record in research with excellence in scientific rigor, innovative thinking, imagination and originality and a clear ability to work in partnership with other disciplines and/or research teams external to the institution with which they are affiliated. This competition will occur once a year for 10 years.

**Funding Details:** $100,000 for one year

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

### Canadian Cancer Society: Chordoma Research Grants
The Canadian Cancer Society (CCS) in partnership with the Chordoma Foundation is issuing a special grant award focused on a rare cancer that occurs in the bones of the skull base and spine, called chordoma. As a result of a fundraising partnership with the Chordoma Foundation and generous donors, there is funding available to support up to 2 meritorious applications that will impact our understanding of chordoma and generate new ideas leading to critically needed systemic therapies. It is hoped that this grant award will utilize innovative technologies and foster new collaborations in order to drive translational research findings rapidly to the clinic.

Applications that build new collaborations and capacity in chordoma research are encouraged.

**Funding Details:** Grant budgets may be up to $100,000 per year and a maximum of $150,000 per grant over a 2-year period. Grants will be non-renewable.

**Additional Details**
LOI Deadline: May 1, 2018
Internal HRS Deadline: July 2, 2018
Sponsor Deadline: July 16, 2018

### MRIS Early Researcher Awards Round 14
The Ontario Ministry of Research, Innovation and Science (MRIS) has issued the call for proposals for Round 14 of the Early Researcher Awards (ERA) competition. The ERA program helps promising, recently-appointed Ontario researchers build their research teams of undergraduates, graduate students, post-doctoral fellows, research assistants, associates and technicians. The ERA program encourages applications from all disciplines. Proposals will be evaluated on the excellence of the researcher (40%), the quality of the research (30%), the development of research talent (20%), and the strategic value for Ontario (10%).

**Matching funds are required for this program.** Also, to be competitive, applicants must have a strong history of peer-reviewed funding and must be able to demonstrate academic independence from previous supervisors and the benefits of their proposed research to Ontario. Therefore, it is advised that you meet with your Department Chair and Associate Dean Research to review your CV and secure matching funds.
Funding Details: Each award is a maximum of $100,000 over five years. These funds may be used for salaries, benefits and research-related travel and expenses for undergraduates, graduate students, post-doctoral fellows, research assistants, associates and technicians. In addition, up to $40,000 will be provided by the Ministry to the institution for indirect costs. The award of $100,000 for direct costs must be matched by an additional $50,000 in cash from the researcher’s institution and/or a private or public-sector partner.

Additional Details
NOI Due to HRS: May 29, 2018
NOI Due to MRIS: June 1, 2018
Internal HRS Deadline: July 25, 2018
Sponsor Deadline: August 7, 2018
*If you have any questions regarding the ERA program, please contact Tracy Arabski, Director, HRS, at arabski@mcmaster.ca or extension 22515*

The Michael J. Fox Foundation: Alpha-Synuclein Biology and Therapies
The Michael J. Fox Foundation will award one-to-two-year grants for alpha-synuclein research to advance understanding of alpha-synuclein biology and accelerate therapeutic approaches. This program seeks proposals for research studying:

- The role of alpha-synuclein and modified forms in health and disease
- The relationship between alpha-synuclein structure and physiological functions
- Novel therapeutic approaches targeting intracellular alpha-synuclein or related pathways

A pathological hallmark of Parkinson’s and other neurodegenerative disorders, alpha-synuclein accumulation into Lewy bodies is thought to play a major role in the onset and/or progression of disease. Clinical trials are ongoing for several potential treatments targeting extracellular alpha-synuclein. MJFF will support projects aimed at altering intracellular alpha-synuclein in order to broaden the scope of therapeutic approaches.

Funding Details:
- Biological Pathways & Novel Targets: 1-2 year grants, up to $150,000
- Therapeutic Development: 1-2 year grants, up to $500,000

Additional Details
LOI Deadline: May 31, 2018
Internal HRS Deadline: August 3, 2018
Sponsor Deadline: August 20, 2018 (by invite only)

The Michael J. Fox Foundation: Biomarkers of Protein Handling/Autophagy, Exosomes and Lipids
The Michael J. Fox Foundation will award one-to-two-year grants to advance biomarker assays in three highly relevant Parkinson’s disease (PD) biology research areas. Investigators working on assay development, optimization of existing assays and clinical sample assessment are encouraged to apply. This program seeks proposals for research studying biomarkers of:

- Protein handling/autophagy pathways
- Exosomes of neuronal origin (including assays to measure proteins, nucleic acids, lipids or metabolites)
- Lipids (including absolute and relative quantification and identification of lipid series)

To date, research into protein handling, exosomes, and lipidomics has mainly focused on dissecting the molecular pathways, understanding biological dysfunction and elucidating associated pathophysiology. Scientists have observed differences in these cellular processes in cellular and animal models, as well as some data in people with Parkinson’s. The next step in translating these important biological targets for clinical intervention is to develop, validate and assess key markers in human biofluids/biospecimens.

Funding Details: Funding is commensurable with the study goals.

Additional Details
LOI Deadline: May 31, 2018
Internal HRS Deadline: August 3, 2018
Sponsor Deadline: August 20, 2018 (by invite only)
The Michael J. Fox Foundation: GBA Biology and Therapies

The Michael J. Fox Foundation and The Silverstein Foundation for Parkinson’s with GBA will award one-to-two-year grants for GBA research to advance understanding of GBA biology and accelerate therapeutic approaches. This program seeks proposals for research studying:

- How GBA mutations lead to PD
- Mechanisms underlying GCase dysfunction in the absence of GBA mutations
- Novel therapeutic interventions to prevent pathogenic mechanisms triggered by GCase-pathway dysfunction

Mutations in the glucocerebrosidase (GBA) gene are one of the most common risk factors for Parkinson’s disease. GBA encodes a lysosomal enzyme, beta-glucocerebrosidase (GCase). Reduced GCase activity is associated with GBA mutations and has been reported in idiopathic PD, suggesting a more general role for GCase pathway dysfunction in Parkinson's. The exact cellular mechanism by which GCase deficits contribute to the pathogenesis of PD remains unclear, warranting further investigation.

Funding Details:

- **Biological Pathways & Novel Targets**: 1-2 year grants, up to $150,000
- **Therapeutic Development**: 1-2 year grants, up to $500,000

Additional Details

**LOI Deadline**: May 31, 2018
**Internal HRS Deadline**: August 3, 2018
**Sponsor Deadline**: August 20, 2018 (by invite only)

The Michael J. Fox Foundation: Non-Pharmacological Interventions for Gait and Balance Disturbances

The Michael J. Fox Foundation will award one-to-two-year grants to test non-pharmacological interventions for the treatment of gait and balance disturbances in people with Parkinson’s disease (PD). We are particularly interested in proof-of-concept, validation and data-analysis projects. This program seeks proposals for research studying the therapeutic benefit of:

- Assistive devices (e.g., back or leg braces)
- Novel technologies (e.g., laser or wearable devices)
- Rehabilitative therapy programs (e.g., occupational or physical therapy)

Gait and balance disturbances in PD can lead to falls, injury, disability and diminished quality of life. While existing dopamine therapies offer therapeutic benefit in treating motor dysfunction in PD, pharmacological-based interventions may not fully ameliorate challenges in gait and balance.

MJFF will prioritize projects that aim to demonstrate proof of concept of methods, feasibility of use and reasonable merit to help gait and balance disturbance in PD. Promising novel technologies must have at least a prototype available to test for proof of concept. Projects also may aim to analyze preliminary existing data around devices or programs. At the end of the proposed project period, technology or approach has the potential to be quickly integrated into patient care.

Please note: This program is not appropriate for technology development, cognitive-based interventions (e.g., cognitive behavioral therapy) or exercise intervention programs.

Funding Details: 1-2 year grants up to $500,000

Additional Details

**LOI Deadline**: May 31, 2018
**Internal HRS Deadline**: August 3, 2018
**Sponsor Deadline**: August 20, 2018 (by invite only)

Health Quality Ontario: Adopting Research to Improve Care (ARTIC) Program

The Adopting Research to Improve Care (ARTIC) Program is a proven model for accelerating the implementation of research evidence into broader practice, contributing to improving the quality of care across Ontario. It is a continuing partnership co-led by Health Quality Ontario (HQO) and the Council of Academic Hospitals of Ontario (CAHO) and brought to life through the Program’s engagement with a wide array of system partners. Too often, research evidence that improves the quality of care are successfully implemented and adopted into practice in one organization, yet this knowledge is never spread to other 5 organizations. Effective evidence implementation and change management require an investment of time, knowledge, expertise, and funding. The ARTIC Program is designed to support and accelerate the implementation and spread of proven clinical interventions or practice changes by
strengthening enablers and addressing barriers to support adoption and spread of research evidence across organizations to achieve optimal impact and outcomes.

**Funding Details:** For 2018/2019 fiscal year, The ARTIC Program will be funding at least one spread project over a 24-month period. The maximum funding available for projects selected in this call for proposals is $1,000,000.

**Additional Details**

LOI Deadline: May 25, 2018  
Internal HRS Deadline: September 10, 2018  
Sponsor Deadline: September 24, 2018

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**Ontario Genomics: Genomic Applications Partnership Program (GAPP) Round 12**

The Genomic Applications Partnership Program (GAPP) funds downstream research and development (R&D) projects that address real world opportunities and challenges identified by industry, government, not-for-profits and other “Receptors” of genomics knowledge and technologies. GAPP projects are collaborations between academic researchers and Receptor organizations. They are co-funded by Receptors and other stakeholders, and have the potential to generate significant social and/or economic benefits for Canada. The GAPP aims to:

- Accelerate the application of Canadian genomics-derived solutions to real-world opportunities and challenges defined by industry and public-sector Receptors.
- Channel Canada’s genomics capacity into sustainable innovations that benefit Canadians.
- Enhance the value of Canadian genomics technologies by de-risking and incentivizing follow-on investment from industry and other partners.
- Foster mutually beneficial collaboration and knowledge exchange between Canadian academia and technology receptors.

**Funding Details:** From $300,000 to $6M for 1 to 3 years.

**Additional Details**

Internal HRS Deadline: April 23, 2018  
Draft EOI due to Ontario Genomics: May 7, 2018  
Face-to-face pitch to Ontario Genomics’ review Panel: June 4-6, 2018  
Final EOI due to Ontario Genomics: July 3, 2018  
Pitch to Genome Canada: August 10, 2018  
Draft Supplementary Proposal due to Ontario Genomics: August 27, 2018  
Sponsor Deadline: October 1, 2018

*Notify HRS of your intent to apply by sending an email to hsresadm@mcmaster.ca*

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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

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**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.
**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.

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

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**Simons Foundation, Simons Foundation Autism Research Initiative (SFARI): SFARI Explorer Award**

This award program is designed to enhance our existing support of autism research by providing timely resources to enable focused experiments highly relevant to our mission. A deeper understanding of the mechanisms underlying autism spectrum disorders or potential therapeutic approaches will require investigation at multiple levels, including but not limited to studies focused on gene discovery, molecular mechanisms, circuits, anatomy, and cognition and behavior. We will consider proposals at all of these levels.

**Funding Details:** SFARI will support applications for maximum of $80,000, including indirect costs, for one year, non-renewable.

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

**Additional Details**

_Sponsor Deadline: Ongoing_

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

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**TalentEdge Internship Program (TIP)**

Ontario’s TalentEdge Internship Program (TIP) provides support for current college and university students (specifically current graduate students and final year undergraduate students), and recent Masters graduates (within three years of graduation), to work on industry-driven research and development projects. Projects must have a clearly-defined R&D component, where R&D is defined by the discipline and is inclusive of all areas of specialization and disciplines. The TalentEdge Internship Program is open to students and recent graduates from across all disciplines, and all areas of specialization.

**Funding Details:** Each four-month internship is valued at $20,000 as follows: $10,000 contribution from OCE; $5,000 company cash contribution; $5,000 company in-kind contribution. It is possible to also leverage your sponsor’s contribution through the NSERC CRD program for additional research funds.

**Additional Details**

_Sponsor Deadline: Ongoing_

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

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**TalentEdge Fellowship Program**

Ontario’s TalentEdge Fellowship Program (TFP) provides support for Ontario-based PhD graduates and post-doctoral fellows to work on industry-driven research and development projects. Companies can tap into world-class talent coming out of Ontario’s publicly-funded post-secondary institutions and strengthen their capacity to develop new products, services, and processes.

**Funding Details:** Each 12-month fellowship is valued at $85,000 as follows

- $35,000 contribution from OCE
- $25,000 company cash contribution
- $25,000 company in-kind contribution

**Additional Details**

_Sponsor Deadline: Ongoing_

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

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**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*
MITACS Globalink Partnership Award

The Mitacs Globalink Partnership Award supports research collaborations between graduate students at Canadian universities and international industry partners. The award is open to graduate students in all disciplines at Mitacs Full, Associate and Honorary Partner universities and for-profit companies in any country (except the United States).

Funding Details: A $15,000 CAD research grant in the Canadian professor’s name to support student travel and accommodation expenses, research-related expenses, and student stipend.

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 Department of Defense has released 6 new funding opportunities for their Breast Cancer Research Program. Please see Additional Details link for further information. Please note respective deadlines for each award.

Funding Details:
- Era of Hope Scholar Award – Maximum funding of $2.5M for direct and indirect costs for a maximum of 4 years.
- Breakthrough Award Levels 1 and 2
  - Funding Level 1 – Maximum funding of $375,000 for direct and indirect costs for a maximum of 3 years.
  - Funding Level 1 with partnering PI Option – Maximum funding of $600,000 for direct and indirect costs for a maximum of 3 years.
  - Funding Level 2 – Maximum funding of $750,000 for direct and indirect costs for a maximum of 3 years.
  - Funding Level 2 with partnering PI Option – Maximum funding of $1M for direct and indirect costs for a maximum of 3 years.
- Breakthrough Fellowship Award – Maximum funding of $300,000 for direct and indirect costs for a maximum of 3 years.

LOI Deadline: May 16, 2018 (A pre-application is required and must be submitted through eBRAP)
Internal HRS Deadline: May 23, 2018
Sponsor Deadline: May 30, 2018

Funding Details:
- Innovator Award – Maximum funding of $5M for direct and indirect costs for a maximum of 4 years.
- Breakthrough Award Levels 3 and 4
  - Funding Level 3 – Maximum funding of $2.5M for direct and indirect costs for a maximum of 4 years.
  - Funding Level 3 with partnering PI option – Maximum funding of $4M for direct and indirect costs for a maximum of 4 years.
  - Funding Level 4 and Funding Level 4 with partnering PI option – Maximum funding of $10M for direct and indirect costs for a maximum of 4 years.
- Distinguished Investigator Award – Maximum funding of $3M for direct and indirect costs for a maximum of 4 years.

LOI Deadline: May 15, 2018 (A pre-application is required and must be submitted through eBRAP)
Internal HRS Deadline: July 31, 2018
Sponsor Deadline: August 14, 2018

Department of Defense Amyotrophic Lateral Sclerosis Research Program (ALSRP) Funding Opportunities for Fiscal Year 2018

As directed by the Office of the Assistant Secretary of Defense for Health Affairs, the Defense Health Agency (DHA), J9 Research and Development Directorate manages the Defense Health Program (DHP) Research, Development, Test and Evaluation (RDT&E) appropriation. The managing agent for the anticipated Program Announcements/Funding Opportunities is the Congressionally Directed Medical Research Programs (CDMRP).
The mission of the ALSRP is to fund innovative pre-clinical research to develop new treatments for ALS for the benefit of Service members, Veterans, and the general public.

**Funding Details:**
- **Therapeutic Development Award** – Maximum funding of $1M for direct costs for the standard award. Maximum funding of $1,250,000 for direct costs for submissions under the Therapeutically Relevant Marker Option. Maximum period of performance is 2 years.
- **Therapeutic Idea Award** – Maximum funding of $500,000 for direct costs for a maximum period of performance of 2 years.

**Additional Details**
- **LOI Deadline:** June 22, 2018 (A pre-application is required and must be submitted through eBRAP)
- **Internal HRS Deadline:** September 27, 2018
- **Sponsor Deadline:** October 11, 2018

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**Department of Defense Ovarian Cancer Research Program (OCRP) Funding Opportunities for Fiscal Year 2018**

The Department of Defense has released 5 new funding opportunities for their Ovarian Cancer Research Program. Please see [Additional Details](#) link for further information. Please note respective deadlines for each award.

**Funding Details:**
- **Investigator-Initiated Research Award** – Maximum funding of $450,000 for direct and indirect costs for a maximum of 3 years.
- **Pilot Award** – Maximum funding of $250,000 for direct and indirect costs for a maximum of 2 years.

**LOI Deadline:** May 30, 2018 (A pre-application is required and must be submitted through eBRAP)
- **Internal HRS Deadline:** August 8, 2018
- **Sponsor Deadline:** August 22, 2018

**Funding Details:**
- **Clinical Development Award** – Maximum Funding of $600,000 for direct and indirect costs for a maximum of 3 years. Funding is increased to $800,000 for direct costs with a qualified nested Early Career Investigator.
- **Omics Consortium Development Award** – Maximum funding of $400,000 for direct and indirect costs for a maximum of 2 years.
- **Ovarian Cancer Academy Award** – Early-Career Investigator – Maximum funding of $725,000 for direct and indirect costs for a maximum of 4 years.

**LOI Deadline:** July 25, 2018 (A pre-application is required and must be submitted through eBRAP)
- **Internal HRS Deadline:** August 1, 2018
- **Sponsor Deadline:** August 8, 2018