

NOVEMBER 2018

CHANGE THE WORLD

A monthly newsletter about clinician scientist development for students, residents, and everyone else in Manitoba's academic health sciences network.

From the Max Rady College of Medicine
Clinician Investigator Program, PGME Resident Research
(Dr. Shayne Taback and Phillip Snarr), and
UGME Office of Advanced Degrees in Medicine
(Dr. Mark Nachtigal, Dr. John Embil, and Allison Birch)

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GREETINGS FROM DR. SHAYNE TABACK

Welcome to our new improved newsletter—**Change The World!** Our goal is to improve clinician-scientist research in Manitoba. Our first focus is on the education and development of physician-scientists. We hope to use this newsletter to **inform about the training programs, highlight important upcoming events**, and most of all **to improve communication to solve challenges**. For example, this newsletter includes two “questions of the month” and we encourage your feedback about these answers for follow-up reports. Please also submit additional new questions that we can work on each month. These questions are also the way that we expand our learning, whether they relate to open-access publication or global surgery. Please feel free to e-mail any of us directly with any issues related to clinician-scientist development; my email is Shayne.Taback@umanitoba.ca

This newsletter is being distributed to the Max Rady College of Medicine medical students, UGME office, BSc. Med committee, residents (through residency program administrators), residency program directors, residency research coordinators, the Clinician Investigator Program committee, the academic faculty through the MED-academic-all list, and the Decanal leadership team of the Rady Faculty of Health Sciences and the Max Rady College of Medicine. There are many others who should also be included in these conversations; we will be creating a distribution list and request suggestions for this.

This newsletter replaces the previous Resident Research News. I would like to thank Allison Birch and Dr. Mark Nachtigal from the Advanced Degrees in Medicine UGME program for their collaboration.

Shayne Taback, MD, BSc Med., FRCPC

Director, Clinician Investigator Program

The University of Manitoba Campuses are located on original lands of Anishinaabeg, Cree, Oji-Cree, Dakota, and Dene peoples, and on the homeland of the Metis Nation.

Northern Manitoba includes lands that were and are original home to the Inuit people.

We respect the Treaties that were made on these territories, we acknowledge the harms and mistakes of the past, and we dedicate ourselves to move forward in partnership with First Nations, Metis and Inuit communities in a spirit of reconciliation and collaboration



About the Director: Dr. Shayne Taback

Dr. Shayne Taback is an Associate Professor in the Department of Pediatrics and Child Health with a cross-appointment to the Departments of Community Health Sciences and Obstetrics, Gynecology and Reproductive Sciences, and a Scientist at the Children’s Hospital Research Institute of Manitoba. His current interests include physician-scientist and physician-leader development and care for children with familial hypercholesterolemia. He has been the Director of the University of Manitoba Clinician Investigator Program (CIP) since its inception in 2013. If you are interested in more information about CIP, please contact the Program Administrator, Phillip Snarr (cip@umanitoba.ca) to schedule a meeting with us.

UPCOMING EVENTS

RADY FACULTY OF HEALTH SCIENCES

EDGE OF SCIENCE AND MEDICINE VISITING SPEAKER SERIES



Introduction to WISDOM: Women in Science, Development, Outreach, and Mentoring at University of Manitoba A Manitoba affiliate of the Society for Canadian Women in Science and Technology (SCWIST)

MONDAY, NOVEMBER 5, 2018 | 12:00 - 1:00 PM Frederic Gaspard Theatre | Basic Medical Science Building | Bannatyne Campus VISITING SPEAKER KELLY MARCINIW, CPHR, BBA, MBA | President of SCWIST SCWIST - Society for Canadian Women in Science and Technology Vancouver, BC

FACULTY, STAFF & STUDENTS ARE INVITED TO

RADY FACULTY OF HEALTH SCIENCES TOWN HALL



MONDAY, NOVEMBER 19, 2018 NOON - 1:00 PM Theatre B • Basic Medical Sciences Building • Bannatyne Campus (Live web stream) Video link 370 Helen Glass Centre • Fort Garry Campus
Dean Brian Postl and Vice-Deans will provide updates on Rady Faculty Strategic Priorities

PRESENTATIONS:

Dr. Brian Postl, Dean, Rady Faculty of Health Sciences & Vice-Provost (Health Sciences)

Dr. Sara Israels, Vice-Dean, Academic Affairs

Dr. Christine Polimeni, Vice-Dean, Continuing Competency & Assessment

Dr. Christine Ateah, Vice-Dean, Education

Dr. Hope Anderson, Vice-Dean, Graduate Studies

Dr. Catherine Cook, Vice-Dean, Indigenous Health

Dr. Peter Nickerson, Vice-Dean, Research

The event will be webcast on UMANITOBA.CA/HEALTHSCIENCES

UPCOMING EVENTS

Indigenous Institute of Health and Healing
ONGOMIIZWIN – RESEARCH

6th ANNUAL INDIGENOUS HEALTH RESEARCH SYMPOSIUM

Our Truths, Our Voices: Reclaiming the world through story



NOVEMBER 21 - 22, 2018

Bannatyne Campus—University of Manitoba

The symposium offers Elders, community members, youth, students and researchers the opportunity to share ideas about Indigenous health research.

This year's theme explores the importance of centring the Indigenous voice in health research and the critical role that language plays in disrupting colonial narratives. Abstracts for presentations are welcomed from university and community-based

researchers, students and others who are engaged in research or knowledge translation projects relevant to the health of the region's Indigenous communities.

Abstracts for presentations will be accepted until September 21, 2018. For submission guidelines, please visit our website. Registration for this event is free and open to all. Please register by October 12, 2018. For more information about registration and abstract submission, please visit umanitoba.ca/healthsciences/indigenous/institute/research/index.html, email

IndigenousSymposium@umanitoba.ca or call 204-789-3250. umanitoba.ca/ongomiizwin

Visiting Clinician Scientist in Medical Education

We are pleased to announce Dr. Shiphra Ginsburg will be presenting at the University of Manitoba Bannatyne Campus Friday, November 23, 2018!



Dr. Shiphra Ginsburg is a Clinician-Scientist at Mount Sinai Hospital, Department of Medicine, and a Scientist at the Wilson Centre for Research in Education at the University of Toronto. Her research involves the understanding and assessment of professionalism and clinical competence in medical education.

12:00 – 1:00 pm Lecture

Understanding Professionalism and the Hidden Curriculum in Medical Education
Frederic Gaspard Theatre & available via Live streaming (details to follow)

Objectives:

By the end of this session participants will:

- Gain an understanding of the power of the hidden curriculum and how we are contributing to it.
- Appreciate the difficulties in assessing professionalism and why they exist.
- Generate discussion to help foster a culture of professionalism in education

UNDERGRADUATE MEDICAL EDUCATION PROGRAMS

Interested in Advanced Degrees in Medicine?

Why do an Advanced Degrees in Medicine?

- Enhance critical thinking
- Develop advanced discipline specific expertise & technical skills
- Learn experimental design and refinement
- Augment you interpretative capacity
- Advance your verbal and written communication skills
- All residency and fellowship programs have a research requirement
- Advanced degrees make you more competitive for residency, fellowship, and faculty positions

The combined-degree **MD/MSc Program** in the Max Rady College of Medicine is designed to begin development of academic clinician scientists by providing them advanced clinical, and research skills. The minimum program of study is the total required by the Max Rady College of Medicine for the MD program (4 years) **plus** the minimum requirements of the Faculty of Graduate Studies. Typically, students complete an MSc in 2-2.5 years; however the nature of the project, the supervisor and the student's motivation all factor into the time to complete.

The **MD/PhD Program** in the Max Rady College of Medicine is designed to produce academic clinician scientists who are interested in a career that combines both research and clinical medicine, providing them advanced clinical and research skills. As the MD/MSc, the program timeline is the total required by the Max Rady College of Medicine for the MD program (4 years) plus the minimum requirements of the Faculty of Graduate Studies. Typically, students complete a PhD in 4-6 years; however the nature of the project, the supervisor and the student's motivation all factor into the time to complete.



Undergraduate Medical Research Programs

The **B.Sc. (Med) program** gives medical students an opportunity to engage in original academic research, in basic medical, clinical, or community sciences, under the supervision of a member of the Medical Faculty. The specific aim of the program is to develop within the student, skills at experimental design, hypothesis testing, critical evaluation of data and the effective communication of results. This program spans throughout the first and second summer for medical students and upon completion from the MD program, students will be awarded with a BSc(Med) in addition to their MD degree.

The **MED Summer Research Program (MSRP)** is a one-summer research opportunity available to either first or second year medical students. This program is designed to allow Medical students to engage in original research, in one of the following areas: basic science, translational research, clinical or community health based projects, under the supervision of a Faculty supervisor who is based at the University of Manitoba. The specific aim of the program is to develop skills within experimental design, hypothesis testing, critical evaluation of data and effective communication of results among the students.

The deadline to submit an application for BSc(Med) and the MED Summer Research Program is December 3rd, 2018 at midnight.

UNDERGRADUATE MEDICAL EDUCATION PROGRAMS



About the Director: Dr. John Embil

Dr. John Embil is a Professor of Medicine, and a specialist in Internal Medicine and Infectious Diseases at the University of Manitoba. He is the Medical Director of the Infection Prevention and Control Program for the Winnipeg Regional Health Authority. Dr. Embil's research interests include: The diabetic foot, blastomycosis, hospital infection control, and clinical trials for new anti-infective agents and wound care therapies. Dr. Embil has also been the Director of the Undergraduate Medical Student Research Programs since 2012. If you would like to know more about the Undergraduate Medical Student Research Programs please contact the Program Coordinator, Allison Birch (Allison.birch@umanitoba.ca).



About the Director: Dr. Mark Nachtigal

Dr. Mark Nachtigal is an Associate Professor in the Department of Biochemistry and Medical Genetics, with a cross-appointment in Obstetrics, Gynecology, and Reproductive Sciences (Max Rady College of Medicine) and is a Senior Scientist with the Research Institute in Oncology & Hematology at CancerCare Manitoba. He received his B.Sc. (General) and PhD (Physiology) degrees from the University of Manitoba. He has been the Director of Advanced Degrees in Medicine since October 2017. If you are interested in pursuing an MD/MSc or an MD/PhD please contact the Program Coordinator, Allison Birch (Allison.birch@umanitoba.ca) to schedule a meeting.

POST GRADUATE MEDICAL EDUCATION

Clinician Investigator Program

About the Program

The goal of the University of Manitoba Clinician Investigator Program (CIP) is to improve the health of society by providing the next generation of medical and surgical specialists with the leading-edge graduate research training necessary to become successful clinician scientists.

CIP research training can occur either within or immediately after a Royal College of Physician and Surgeons of Canada clinical residency program. Eligible areas of research include all four Canadian Institutes of Health Research pillars (biomedical, clinical, population health and health services research) as well as health research in related areas such as economics, education, e-health, engineering, or ethics. Achieving the CIP designation requires a minimum of two years of formal training at the Masters, Doctoral, or Post-Doctoral level. Depending on career stage, CIP training may serve as a formal introduction to research, an intermediate step in research career training, or as the final research training experience prior to faculty appointment.

[CIP Training Goals and Objectives](#)

The next CIP application deadline is November 1, 2019 for a July 1, 2020 start date.

To apply, please submit the following application and registration forms along with all requested supporting documents via email to CIP@umanitoba.ca.

[CIP Application Form and Checklist](#)

[CIP Registration Form](#)

Please review the Current CIP Trainee Resources page for more detailed program information and important dates.

When should I start planning CIP?

Building a great support committee and designing a research project can take time. It is highly recommended that you start planning your time in CIP as early as possible. The CIP Director is happy to meet trainees and help them develop their plans. We encourage you to involve CIP and your clinical department faculty, including your Department Head, throughout the planning process.

How are CIP trainees funded?

Accepted trainees are guaranteed funding for the full 24 month program at appropriate PGY level through the use of PGME Flex Spots and other funding awards and partnerships. However, CIP trainees are required to apply for external salary awards for their second year. This improves the trainee's CV and, if successful, frees up the Flex Spot funding so that it can be used to sponsor additional CIP trainees.

Some surgery specialties offer 1 year of funding to complete a research-based Masters degree. This program may be combined with CIP to fund one of the two years provided this is arranged ahead of time and the trainee is enrolled in CIP prior to starting the Masters of Surgery year. The trainee still needs to apply to CIP by November 1, 2019.

What are my options for graduate degree programs?

There are many options for graduate programs and you do not have to stay in Winnipeg to complete your research. You should consider going to the best place in the world to train in your chosen field. We recommend meeting with your advisors and with the CIP Director to determine where your research should be conducted to have the most impact and benefit for your career. Only research-based graduate programs shall be considered for CIP, not course-based.

How long will I be in CIP?

The program is a minimum of 24 months of active research (minimum 80% protected research time) but can often span up to 4 years, depending on the type of research project and graduate degree.

What are the major benefits of CIP?

This program provides thorough, hands-on research training and experience that will help you to establish yourself and succeed in your chosen field. Some specific benefits include: - Protected, mentored research time - Specially designed academic curriculum which addresses all major aspects of conducting health research - Support from a group of peers pursuing similar projects - Graduate degree, making you more competitive for faculty positions

More questions? Feel free to contact the CIP Program Administrator at any time.

[CIP Handbook](#)

Resident Research News

Biostats Open House

"The best time to meet with a statistician is before you start your project"

-Dr. Shayne Taback

Event Description:

Would you like to "speed date" a biostatistician? While this is your chance! This is a perfect opportunity to get a wide range of feedback and suggestions from a team of skilled and diverse statisticians. Whether you are in the planning stages of your project, in the middle of your research, or putting the final touches on your project this is the perfect event for you.

The format of this event is much like speed dating. There will be multiple statisticians set up around the room and ready to learn about your project and provide feedback and suggestions. This is your opportunity to see which statistician you connect with and who will be able to guide you through the statistics in your project. Each statistician will bring their own unique background and approach to your project and you will leave with numerous insights and suggestions to use moving forward. Following this evening, you can continue to receive free 5 hours of statistical consultation from the biostatistician of your choice.

Don't miss out on this event as it is FREE, spaces fill up quickly and there are only limited spots available. Email pgmerra@umanitoba.ca as early as you can to reserve your seat. Trainees who register but do not attend may not be eligible to register for future sessions.

Event Details:

Date: **November 28, 2018**

Time: 4:00 - 5:30 PM

Location: Room 204, Brodie Centre

To Register: Please email PGMERRA@umanitoba.ca

If you have specific questions about event content, please contact:

Dr. Depeng Jiang

Email: Depeng.Jiang@umanitoba.ca

Phone: (204) 272-3137

POST GRADUATE MEDICAL EDUCATION

Upcoming Research Award Deadlines

CPGME Administered Awards, 2018/2019 Academic Year	Application	Deadline
Dr. Diane Biehl Research Award in Postgraduate Med. Ed.	Download	Dec. 15, 2018
R. Samuel McLaughlin/MMSF Research & Education Fellowship	Download	Feb. 15, 2019
Dean of Medicine's Education & Research Fellowship Fund	Download	Feb. 15, 2019
Dr. T.J. Lamont Memorial Prize in Maternal & Neonatal Welfare	Download	Apr. 15, 2019
Prowse Prize for Clinical Research	Download	Apr. 15, 2019
Pawas and Mradula Verma Fellowship for Transplant Research	Download	May 15, 2019
CSCI-CIHR Resident Research Award	Download	May 15, 2019

QUESTIONS OF THE MONTH

Is there funding for medical students and residents to publish their research in open-access peer-reviewed journals?

Thank you very much for your question and also for your interest in open-access publication. As you know, open-access is a growing movement to make research findings freely available online to all. CIHR and the other federal granting agencies now require investigators to make all federally funded research available in an open-access repository. Further information is available from the University of Manitoba Libraries. We thank Janet Rothney and Andrea Szwajcer for their contributions to this answer.

<https://libguides.lib.umanitoba.ca/researchservices>

There are a number of open-access publishing models—most involve shifting the journal funding from subscriber paywalls to author-paid article processing charge (APC) at the time of submission. The fees can range from \$500 CAD to \$5000 CAD per submission. Some journals are hybrid open-access meaning that it is funded by subscriptions but allows authors to make manuscripts open-access by paying the APC.

Funding systems to support student and resident open access research is a work in progress.

1. The first potential support to consider is your supervisor; if they have research grant funding that supported the work you have done, then they may be expected to deposit or publish in an open-access medium. If your research is not externally grant funded, we suggest that you and your supervisor ask your Section and then your Department Head.
2. If your journal is part of the Nature Publishing Group, you may be eligible for an institutional discount. However there are journals within the SpringerNature/BioMed Central/Nature Research that are exempted from any institutional membership or Libraries consortia- purchasing arranged discount. Consult your Libraries website to see what discounts may be available and then consult a librarian. Some publishers such as PLOS offers fee waivers if you can prove the institution does not have an OA fund. Nature Springer offers fee reduction/waiving for unfunded student or resident projects. Another open-access journal, PeerJ, does not charge authors.
3. It is possible that there are other support programs out there that we are not aware of. We are circulating this newsletter to Deans, Department Heads, and Program Directors and will follow-up in the next edition.

Many journals allow a copy of your research to be deposited to an open-access repository in addition to being published in your chosen journal. This is dependent on the permissions you agreed to when you choose the publishing option. CIHR and other Tr-Agency funders stipulate that the recognized version for OA compliance is a post-peer-review or Accepted Manuscript version of your published work. The Sherpa/Romeo project (<http://www.sherpa.ac.uk/romeo/index.php>) indexes copyright and self-archiving options. MSpace is the University of Manitoba's institutional repository, which can be added to by any UM affiliated author and is indexed by Google to increase findability of your work. See the "Research Publications" in Mspace for examples and to upload your work; (<https://mspace.lib.umanitoba.ca/handle/1993/2761>).

Finally for future projects, we now suggest that residents and supervisors plan out publication efforts at the start of the project and discuss how open access should be pursued. The anticipated Tri-Agency Policy on Data Management includes a data management plan (DMP); one of the elements of a DMP is the research project's considerations for OA compliance, meaning deposit. The University of Manitoba Librarians are available to consult. Book a consultation

QUESTIONS OF THE MONTH

Can I train in CIP for an academic career in global surgery?

Thank you for your question. Colleagues tell me how incredibly rewarding global surgery missions are. CIP loves people training to be leaders in emerging fields in medicine. Global surgery would be no exception. I note that there is a US/Global Academic Surgery network and that they have recently published articles about Academic Careers in Global Surgery and a Guide to Research in Academic Global Surgery (see links below). Furthermore, the Gates Foundation is now signaling that they will be turning to support global surgery initiatives.



Manitoba ENT Surgeon and CMA President Dr. Gigi Osler on a surgical mission to Uganda, January 2018.

A key question would be: what do you want your career to look like?

If you are training for a clinical career that includes a global surgery component, then instead of CIP, you should talk to others who do surgical missions. We are aware of formal programs offered by the UBC Branch for International Surgical Care (<https://internationalsurgery.med.ubc.ca/>) and in the United States.

If you are considering an academic career that would substantially include leadership and research in global surgery, then CIP becomes a preferred option. You would need to join or put together a program that includes a strong researcher in this area as your project supervisor and carry out and defend a project at the MSc or PhD level. The Advanced Degree would give you both the knowledge and the credibility to set you up for a successful career. As research increasingly is a collaborative enterprise, training within a network or leading centre whether in the US or Canada is highly advantageous. The Department of Surgery and the authors of the publications below would be able to provide you with additional contacts in the field either locally or in other centres.

Recent Publications

[An academic career in global surgery: a position paper from the Society of University Surgeons Committee on Academic Global Surgery.](#)

Krishnaswami S, Stephens CQ, Yang GP, Nwomeh BC, Swaroop M, Nadler EP, Holterman AX, Simeone DM, Kingham TP, Merchant N, Orloff SL.

Surgery. 2018 Apr;163(4):954-960.

[Guide to research in academic global surgery: A statement of the Society of University Surgeons Global Academic Surgery Committee.](#)

Saluja S, Nwomeh B, Finlayson SRG, Holterman AL, Jawa RS, Jayaraman S, Juillard C, Krishnaswami S, Mukhopadhyay S, Rickard J, Weiser TG, Yang GP, Shrimel MG; Society of University Surgeons Global Academic Surgery Committee.

Surgery. 2018 Feb;163(2):463-466.