Faculty of Health Sciences
School of Interdisciplinary Health Sciences

HSS4900/HSS4901 Handbook
This document provides important information regarding the HSS4900/HSS4901 application process and the opportunities to explore research for undergraduate students.
Research Opportunities for Undergraduate Students at the Interdisciplinary School of Health Sciences

Engage, Discover, Invent, Challenge, Integrate

VOLUNTEER

Resilience and High Risk Populations Research Lab EnRiCH

Publish, Advocate, Promote, Analyze, Create

Walk, Cognition and Augmented Reality Lab

Last updated: August 31st, 2017
UROP

The Undergraduate Research Opportunity Program (UROP) provides undergraduate students with unique and exciting opportunities to explore cutting-edge research at the University of Ottawa while they define their professional goals.

WHAT DOES IT CONSIST OF?

By participating in UROP, a student receives a $1,000 award and devotes, during one academic year, at least 50 hours to the research project conducted by the faculty sponsor he or she has chosen. Each faculty sponsor receives $500 in research funds to support his or her involvement in the program.

BENEFITS OF UROP

- an enriched student university experience
- research opportunities for undergraduate students
- one-on-one relationships between students and faculty
- hands-on experience in student’s field of study
- preparation for graduate studies
- increased student engagement with learning
- help for students making career decisions

HOW TO PARTICIPATE

https://research.uottawa.ca/urop/undergrad-research-opportunity/how-to-participate

 Eligibility:

Students must:

- Have a cumulative grade point average (CGPA) of at least 7.5 (Students transferring from another institution who do not have a University of Ottawa CGPA must have an admission average to their program of 75%)
- Be registered full time in an undergraduate program at the University of Ottawa (Exchange students are not eligible)
- Be in the second or third year of their program of study when they are applying for the award (They must have completed a minimum of 24 and a maximum of 80 credits)
- Have never received a UROP award
- Have never completed a Master’s degree or its equivalent
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HSS 4900 & HSS 4901- Research Project

HSS 4900 Research Project (3 units)
Research project will be in the area of health sciences. Topics must be approved by a full time ISHS faculty member. Reserved for 4th year students registered in the Honours Bachelor of Health Sciences.

Course component:
3 credit course A. 3 credit course is expected to consist of approximately 144 hours of work (comparable to 36 hours in class and a minimum of 2 hrs/wk. outside of class for each hour of class time = 36 X 2 = 72 hrs + 72 hrs of class time = 144 total hours)

Prerequisite: 81 university units.

HSS 4901: Advanced Research Project (6 units)
The student will conduct a supervised research project designed to broaden his or her interdisciplinary knowledge of a selected topic of health sciences. The scope and content of the project will be defined by both the student and supervising professor. Both theoretical and applied knowledge will be evaluated for this course. Student enrollment is limited to ISHS supervisor availability and restricted to the students in the Honours Bachelor in Health Sciences only.

Prerequisite: 81 university units with a minimum CGPA of 8.0, HSS 2381, HSS 3101. The courses HSS 4901 and HSS 4900 cannot be combined for units.

Primary supervisor: Professor responsible for the supervision of a student research project; may be a member of ISHS or external.

ISHS Co-supervisor: If the primary supervisor is external to the School, a regular or adjunct member of ISHS must act as an internal, co-supervisor.

Last updated: August 31st, 2017
Role and responsibilities of the PRIMARY supervisor:

- Develop in collaboration with the student a research project that is appropriate in scope and character for the HSS4900 or HSS4901 course, and is feasible in terms of time, facilities, equipment, and technical requirements. Major changes to the title or scope of the research project must be indicated on a new registration form.
- Make the student aware of any compulsory health and safety course requirements, or other mandatory training sessions (e.g. animal care, TCPS2).
- Make the student aware of relevant university and faculty policies and procedures.
- Be aware that students will spend on average ~9 hours per week on their project for one semester, and that they have other courses and duties. Expectations of regular hours above 9 per week should be negotiated between the student and the supervisor prior to initiating the research project.
- Provide guidance to the relevant literature and resources.
- Help the student understand the rationale and context of the proposed research project.
- Instruct the student in the appropriate experimental or data collection techniques, where appropriate.
- Assist the student in the critical analysis and interpretation of data.
- Integrate the student fully into the activities of the lab including such things as weekly/biweekly lab meetings, maintenance of the lab and the instrumentation where appropriate, and enable the student to contribute to the research environment.
- Establish with the student mutual expectations and identify clear objectives. ‘Work plans’ should explicitly indicate how the student will be assessed for each component of the grade
- Provide regular feedback on all elements of the student’s performance and progress.
- Compile and submit both component and final mark/letter grade as per Academic Regulation 10.1 Official Grading System (https://www.uottawa.ca/administration-and-governance/academic-regulation-10-grading-system), directly to the Faculty of Health Sciences Academic Secretariat: ssan-adm@uottawa.ca
- In the event of an incident which may affect the student’s ability to complete the course on time please communicate by email with the Assistant Director, Undergraduate Studies, or Director of ISHS as soon as possible. Note that official co-supervisors may be asked to participate in the supervision of students in the event of a major incident; acknowledging that this may require significant revision to the research project topic.
- Examples of relevant incidents may include:
  - Supervisor or student requires leave of absence;
  - Student misconduct;
  - Irreconcilable working relationship;
  - Loss of infrastructure/resources required to complete project
Role and responsibilities of ISHS Co-supervisor

For co-supervisors your signature on the research project registration form means that you:

- Represent the culture, expectations and standards of the HSS program
- Must have sufficient subject matter/technical expertise to provide feedback to primary supervisor if necessary
- Serve as a resource to the external primary supervisor to ensure student work plan, objectives are appropriate for the HSS program.
- Facilitate communication between the external primary supervisor and ISHS (Assistant Director, Undergraduate Studies or the Director, ISHS) in the event of a major incident which may affect the student’s ability to complete the course on time.
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REGISTRATION PROCEDURE HSS4900/4901

- Student enrollment is limited to the availability of resources and expertise in the chosen research field.
- Registration requires the approval of the Assistant Director, Undergraduate Studies. Application for registration and meeting of prerequisites is no guarantee of acceptance. Please submit signed registration forms to Thompson Hall, Room 140. For further information email hss-adj2@uottawa.ca

LINK TO REGISTRATION:


Complete the project form with the supervisor
- complete workplan
- discuss deadline
- discuss expectations
- sign the form

Submit the form to THN140
- Assistant Director approves the form
- the approved form is forwarded to the academic office
- Student is registered for HSS4900 or HSS4901

Supervisor must submit grades to the Academic office at ssan-adm@uottawa.ca
- Supervisor should advise Assistant Director of difficulties, issues
- Provide feedback to student
What is the IJHS?

Housed within the Interdisciplinary School of Health Sciences at the University of Ottawa, the Interdisciplinary Journal of Health Sciences is devoted to showcasing and disseminating original research within the health sciences, with special consideration for emerging scholars. The IJHS values a truly interdisciplinary approach and, for this reason, has been organized in a manner that is consistent with the determinants of health.

The journal was founded in 2009, and enjoyed expansion the following year due to funding from the Mission Satisfaction program of the University of Ottawa. To date, it remains a non-profit, open-access endeavour, with no financial or administrative ties to any institution (ISSN 1920-7433).

Our current publication schedule allows for 1-2 issues per academic year; however, submissions are accepted all year. All submissions of scholarly merit are welcome, and we accept submissions in both English and French.

We cordially invite you to read our Strategic Report explaining everything there is to know about the IJHS: its missions, its mandates, its objectives, its organizational structure and its development projects.

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RESEARCH POSTERS

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Ethical and Responsible Conduct in Research

Ethics: All students should complete necessary ethical training (e.g. Tricouncil, ACVS-Animal Care) as related to their project. Supervisor should discuss ethics in context of humane use of animals in research, clinical studies, participants and scientific fraud as applicable.

Safety: All students are required to complete the necessary WHMIS, laboratory safety training or other clinical safety training as specified by the University of Ottawa and carry out safe and responsible research practices.

Confidentiality: All students must maintain the security and confidentiality of the research including protocols, data, grant applications. It is not appropriate to share this information with other students or professors.

Intellectual Property: All data generated from the research group is the intellectual property of supervisor. Students may not present or publish data without permission of the Principal Investigator and Supervisor. In most cases permission will be granted yet this policy is required to ensure the data is represented appropriately, ethically, that all participants and funders are acknowledged and that duplicate or misrepresented data is not presented/published.

Security: Students may be provided with a set of keys to your supervisor’s research space or laboratory. These keys are to be used only by the designated student, cannot be copied and must be returned promptly when students retire from the laboratory. Non-lab members are not permitted access to these laboratories or offices.

Computers: Research students may have access to computers and although their use should principally be reserved for data analysis, computers may also be used for other academic work, assignments etc. Please do not install software. Do not store personal information on computers and use USB keys when possible. This will necessitate regular use of antivirus scans.

Expectations

- Responsibility for yourself, the data and your fellow researchers
- Respect for the research, the equipment, the animals/participants and your fellow researchers
- Communication with the team, discuss problems or give advice to junior researchers
- Regular attendance at lab meetings
- Enthusiasm for the work and appreciation of this opportunity!

Code of Conduct: Here we will strive to create and maintain a positive and productive learning environment in which all persons treat each other with respect and courtesy.
Lab Safety

- Students should behave in a mature and responsible manner at all times in the laboratory or wherever chemicals are stored or handled. All inappropriate behavior is especially prohibited.
- Students must follow all verbal and written instructions carefully. If you are unsure of the procedure, ask for help before proceeding.
- Students should not touch any equipment or chemicals unless specifically instructed to do so.
- Students must not eat, drink, apply cosmetics or chew gum in the laboratory. Wash hands thoroughly after participating in any laboratory activities.
- Students must perform only those experiments authorized.
- Students will receive training related to the locations and operating procedures for all applicable laboratory safety equipment and personal protective equipment.
- Students must properly dispose of all chemical waste as directed.
- Students must wear ANSI-approved eye protection whenever chemicals, heat or glassware are used in the laboratory. Students should wear appropriate personal apparel at all times in the laboratory and also avoid wearing loose or flammable clothing; long hair should be tied back.
- Students must report any incident (including all spills, breakages or other releases of hazardous materials) immediately, no matter how insignificant it may appear. This should include all injuries such as cuts, burns or other signs of physical harm.
- Students must never remove chemicals, equipment or supplies from the laboratory area.
- Students must carefully examine all equipment before each use and report any broken or defective equipment to the teacher immediately.
- Students must never reach over an exposed flame or hot plate, or leave a flame or hot plate unattended.
- Students must never point a test tube or reaction vessel of any type toward another person. [www.acs.org](http://www.acs.org)
- Students must refrain from unauthorized entry to other laboratories, common equipment rooms. Removal of unauthorized materials from laboratories is prohibited.

Honesty and integrity

- I will adhere to and demonstrate the highest level of honesty in all academic activities, including examinations and evaluations
- I will in no way unfairly attempt to advance my academic standing, nor will I be a party to any such attempts, or assist another student to do so.

Altruism and Respect

- I will strive to demonstrate the highest standards of ethical and professional behavior in all academic settings
- I will refrain from any form of discrimination based on race, religion, ethnicity, gender, sexual orientation, mental or physical impairment, age or illness. I will avoid sexual and all other forms of exploitation of members of the University of Ottawa, including abuse, harassment or impropriety
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- I will display and expect non-discriminatory and respectful behavior towards and from my peers, teachers and support staff.
- I will use appropriate salutations and methods of address for all email correspondence, and provide my full name and student number.
- I will address my academic concerns in a respectful manner with my professor, and not with other members of the University community (i.e. dean, director).

Responsibility and Accountability

- I will demonstrate an ability to work independently while accepting direction from those charged with my supervision.
- I will acknowledge and recognize my strengths and limitations and I will seek assistance as necessary.
- I will demonstrate accessibility, attendance, punctuality and trustworthiness.
- I will present and conduct myself in a dignified, respectful and professional manner while functioning in an official capacity.
- I will accept and be accountable for my performance in this course and not attempt to rely on negotiation to improve my class standing.

Dedication and Self-Improvement

- I will continuously strive to develop my knowledge, skills and competence.
- I will promote and uphold the educational standards of the Health Sciences Program.
- I will assess my educational progress and determine my learning needs.
- I will pursue self-education through the use of appropriate resources and I will prepare myself for all learning sessions.
- I will seek further instruction in areas of both strength and weakness.
- I will demonstrate a willingness to teach and share in the learning process with my peers, staff and faculty and as such promote the student-teacher relationship and not abuse this trust for personal gain.
- I will seek help from colleagues and appropriately qualified professionals for personal problems that adversely affect my education.
RESEARCH DOMAINS AT THE SCHOOL

- Santé reproductive
- Santé internationale
- Santé environnementale
- Santé de la population
- Développement

- Vieillissement
- Qualité de vie
- Biologie mitochondriale
- Neurosciences
- Avortement
- Technologies d'assistance
- Comportements

- Population Health
  - Mitochondrial Biology
  - Global Health

- Reproductive Health
  - Neuroscience
  - Toxicology
  - Walking
  - Euthanasia
  - Resilience
  - Systems Biology

- Developmental Health
  - Cognitive Aging
  - Pre-eclampsia
  - Genetics
  - Assistive Devices
  - Virtual Reality
  - Mobility

- Women's Health
  - Abortion
  - Aging
  - Health Promotion
  - Pregnancy
  - Environmental Health

- Quality of Life
  - Emergency/Disaster Management
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at the Interdisciplinary School of Health Sciences

FIND A SUPERVISOR.....

Bridge the bio's with the Faculty bio's online.

http://health.uottawa.ca/interdisciplinary/about/tenure-track-professors

- Raymond Baillargeon Ph.D. Associate Professor in the School of Interdisciplinary Health Sciences
  Raymond Baillargeon studies the development of disruptive behaviour—physical aggression, oppositional-defiant and hyperactive-impulsive behaviour—in children, from birth to adolescence. His work has shown these behaviours start occurring at early age and that certain behaviours are more common in boys than in girls, particularly physical aggression. The majority of children who show these types of behaviours before the age of two continue to display them following year, a strong indicator of early onset of disruptive behaviours. By following children over a long period, he has been able to show that the problems showing up in a child before the age of two are still present at four years of age and continue as the child reaches school age.

- Shannon Bainbridge Ph.D. Associate Professor in the School of Interdisciplinary Health Sciences
  Shannon Bainbridge research program addresses two common and debilitating complications of pregnancy, preeclampsia and intrauterine growth restriction. The aims of her research program are to: 1) understand the molecular basis of these complications within the placenta; 2) identify molecular subclasses of these complications; 3) identify unique biomarkers that can be used to screen and identify these different subclasses of disease; 4) identify molecular candidates within the placenta that can be targeted for tailored therapeutic treatment of the different subclasses of disease. [http://placentalab.org/](http://placentalab.org/)

- Yan Burelle, Full Professor in the School of Interdisciplinary Health Sciences, University Research Chair in Integrative Mitochondrial Biology
  Yan Burelle is an expert in mitochondrial biology. His central interest is to integrate multiple facets of mitochondrial function to gain a global understanding of the importance of these organelles in physiological homeostasis, and development of human diseases. His research program has three main themes: (1) mitochondrial functional abnormalities associated with genetic and acquired cardiomyopathies; (2) the implication of mitochondria in various pathologies affecting skeletal muscle; (3) the study of genetic mitochondrial diseases. His laboratory mainly uses cellular and animal models combined to a variety of biochemical, molecular and histological approaches. He also applies these approach to study human samples. [https://www.burellelab.com/](https://www.burellelab.com/)

- Raywat Deonandan, Ph.D. Assistant Professor in the School of Interdisciplinary Health Sciences
  Raywat Deonandan is an epidemiologist, author, journalist, and global health specialist. His research areas of interest include ethical dimensions of reproductive tourism, epidemiological trends in global burdens of disease, social/moral dimensions of risk perception and assessment, and challenges in international education.
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Pascal Fallavollita, Ph.D. Assistant Professor in the School of Interdisciplinary Health Sciences
Pascal Fallavollita’s expertise includes developing medical augmented reality for applications related to education and training including anatomy and surgical simulations. He uses intra-operative imaging and navigation to develop user interfaces for therapy. His research plans at ISHS include the establishment of an academic research laboratory focused on the development of methodologies that make use of sensors and AR/VR systems to investigate changes in motor control, learning, and performance in individuals with chronic conditions, including the aging and disability populations. He will target improvement of participant centered quality of life through technology driven applications. Knowledge of the ways in which individuals behave in various contexts will illuminate how they perceive their capabilities, whether and how they engage in meaningful activities, and how they optimize participation in home and community life.

Angel Foster DPhil, MD, AM Associate Professor in the School of Interdisciplinary Health Sciences
Dr. Angel M. Foster received her DPhil in Middle Eastern studies from the University of Oxford, attending as a Rhodes Scholar, her MD from Harvard Medical School, and her AM in International Policy Studies and BAS in International Relations and Biology from Stanford University. Her research focuses on emergency contraception, abortion, and health professions education and she currently leads projects on reproductive health in eleven different countries and humanitarian settings in Asia, Europe, the Middle East and North Africa, and North America.

Sarah Fraser, Ph.D. Assistant Professor in the School of Interdisciplinary Health Sciences
Sarah Fraser’s current program of research focuses on early diagnosis of a cognitive or physical change in healthy older adults using her walking while thinking paradigm. Using mixed methods, the goals of her research are to: 1) identify older adults at risk of decline before they are classified by a standardized test; 2) intervene and improve the ability to manage two things at the same time in order to reduce fall risk; 3) identify what older adults prioritize in different dual-task situations and why; 4) consider age-related changes from an interdisciplinary perspective (examining physical, social and cognitive factors).

Linda Garcia, Ph.D. Full Professor in the School of Interdisciplinary Health Sciences
Linda Garcia’s research interests are focused on how communication influences human interactions and transitions as individuals (especially seniors) living with aphasia or dementia continue to live with their functional limitations. She is particularly interested in the role others have in creating environments that facilitate communication and human interactions. The attitudes and approaches of conversational partners, social networks and interactions with health care professionals can all influence the level of success of the communication interaction. https://sites.google.com/site/entouragelab/home-1

James Gomes  Ph.D Associate Professor in the School of Interdisciplinary Health Sciences
James Gomes is an epidemiologist and toxicologist who identifies and characterizes environmental and occupational health hazards. His research has emphasized the role of xénoestrogènes on prostate health and hormonal carcinogenesis. He assesses environmental and occupational exposures using epidemiology and molecular toxicology and evaluation of risk to disease development.
Jeff Jutai, Full Professor and Director and Associate Dean  
School of Interdisciplinary Health Sciences  
Jeff Jutai has significant experience and expertise in the field of assistive technologies for persons of all ages who have a sensory or physical disability. His research focusses on measuring the functional and quality-of-life outcomes of assistive technologies for persons who have a disability and understanding the factors that affect the adoption and use of assistive technologies.  
AGE-WELL NCE Co-Leader of WP8 research theme www.agewell-nce.ca

Anne TM Konkle Ph.D. Assistant Professor in the School of Interdisciplinary Health Sciences  
Anne TM Konkle is a neuroscientists who is interested in sex differences in brain development, behavior and disorder/disease with a penchant for better understanding the mother/infant dyad. She studies the effects of environmental perturbations (including stress, maternal infection, toxicants, noise, etc.) on behavior and the steroidogenic systems underlying neurodevelopment of brain areas that are involved in the stress response, cognition, emotion and in reproductive function. These are studied in the context of sex specific neurodevelopmental disorders such as autism and schizophrenia as well as postpartum conditions of depression and anxiety. She is also further exploring the use of nutritional supplements for the treatment or prevention of post-partum depression and anxiety; this will inform some of the planned animal models. A multidisciplinary approach finds her investigating the media representation of mental health and of environmental toxicants in order to better understand the information typically available to the lay person and how these might impact their perceptions and behaviors. This approach will be further developed in an educational context in order to try to sensitize youth about the information to which they are exposed and how this may influence their perceptions and perpetuate stigma around mental health.  
B.E.S.S.T. Lab at http://konklelab-neuroscience.webs.com

Isabelle Marcoux, Ph.D. Associate Professor in the School of Interdisciplinary Health Sciences  
Isabelle Marcoux studies euthanasia, assisted suicide and suicide, ethical issues about end-of-life decisions, transition from curative treatment to palliative care. Her research program focuses on both factors influencing end-of-life decision-making process and factors influencing a desire for premature death on people with a severe incurable disease. She evaluates patients’ mental health, coping, social support as well as health professionals’ communicational and relational aspects in care. Finally, she is interested in the effects of public policies on medical end-of-life practices.

Keir Menzies, Ph.D. Assistant Professor in the School of Interdisciplinary Health Sciences  
Keir Menzies uses an integrated systems physiology approach for examining various signaling mechanisms and translational methodologies to discover new treatment strategies and biomarkers for metabolic disorders and age-related diseases. As a molecular biologist, Dr. Menzies has a strong interest in aging and metabolism as they relate to cellular NAD+ homeostasis. He has helped describe the role of mitochondria and oxidative stress in skeletal muscle during aging, disuse and exercise. These studies included a variety of metabolism-related topics, including the role of the sirtuin proteins as regulators of mitochondrial function in muscle during aging and exercise.  
http://keirmenzieslab.com/
Tracey O’Sullivan, Ph.D. Associate Vice-Dean Academic

Tracey O’Sullivan’s primary research focus is assessment of support mechanisms to promote health and resilience in conditions of high personal, occupational and community stress, with particular emphasis on building capacity for emergency management through community engagement, multi-disciplinary collaboration, and strengthening of critical social infrastructure. She is the lead investigator for The EnRiCH Project, which is a community-based participatory research project focused on enhancing resilience and preparedness among high risk populations, using a functional capabilities framework. Family caregivers of stroke patients and people living with disability have been among the vulnerable populations examined. Tracey: http://www.enrichproject.ca/director.html

Karen Phillips Assistant Director, Undergraduate Studies
Ph.D. Associate Professor in the School of Interdisciplinary Health Sciences.

Dr. Phillips obtained her doctorate at the University of Ottawa specializing in oocyte maturation, molecular events at fertilization and early embryo development. During her doctoral training, Professor Phillips furthered her education at the Fertility Centre, Ottawa Hospital to become a Clinical Embryologist, trained in all aspects of assisted reproductive technologies (ART). Professor Phillips’ program of research examines interdisciplinary approaches to evaluate sexual and reproductive health. Research interests include: Infertility, Women's Health, Prenatal Health, Reproductive Biology, Sexual and Reproductive Health Promotion, Environmental Health. http://health.uottawa.ca/people/phillips-karen www.ReproHealthLab.org

Lara Pilutti, Ph.D. Assistant Professor in the School of Interdisciplinary Health Sciences

Lara Pilutti comes to us from the Department of Kinesiology and Community Health at the University of Illinois Urbana-Champaign. Her research focuses on the role of physical activity and exercise in the management and treatment of disability arising from neurological disorders, particularly multiple sclerosis. The goal of her research program is to optimize the accessibility of physical activity and exercise for people with multiple sclerosis with advanced disability to maximize health- and disease-related benefits. Her laboratory has focused on the application of accessible exercise rehabilitation strategies for individuals with multiple sclerosis with advanced disability. Dr. Pilutti is further interested in the role of physical activity and exercise in the management of comorbid health conditions that affect those with neurological disorders and mobility impairment.

Jason Steffener, Ph.D. Assistant Professor in the School of Interdisciplinary Health Sciences

Jason Steffener’s core research aim is to understand how cognitive performance is maintained by adaptations of functional brain activity in response to changes in brain structure from advancing age, disease or injury and what the role of lifetime exposures are on these relationships. This research measures brain structure and function with MRI neuroimaging, sophisticated experimental design and statistical analyses relying on high performance computing. The research in this field has evolved tremendously over the past few years and it is now established that a better understanding of healthy aging requires a comprehensive approach assessing cognition, lifestyle and neural mechanisms.
Frédérique Tesson Ph.D. Associate Professor
Assistant Director, Graduate Studies and Research

Frédérique Tesson’s research is focused on the contribution of the genome and the environment in the development of cardiovascular diseases. Presently her research, conducted in collaboration with Canadian and international researchers and clinicians, relates to genetic and molecular mechanisms that lead to heart failure, the contribution of the genome in high-blood pressure linked to sodium consumption, and the molecular and cellular mechanisms involved in response to lifestyle interventions.
CADTH is an independent, not-for-profit organization responsible for providing Canada’s health care decision-makers with objective evidence to help make informed decisions about the optimal use of drugs and medical devices in our health care system.

Colette Raymond, Scientific Advisor (CADTH), Research Scientist (Manitoba Centre for Health Policy), Assistant Professor (Department of Community Health Sciences, University of Manitoba)

Colette Raymond completed an Accredited Hospital Pharmacy Residency at the Ottawa Hospital, a Doctor of Pharmacy at the University of British Columbia and a MSc at the University of Manitoba through Community Health Sciences. Colette has conducted health services research with an interest in the population’s use of pharmaceuticals, pharmaceutical policy and pharmacy practice at both MCHP and the Winnipeg Regional Health Authority. She received a Canadian Society of Hospital Pharmacists Fellowship in Hospital Pharmacy in 2015. Dr Raymond’s has led MCHP projects dealing with pharmaceutical policy evaluations, optimal use of pharmaceuticals, oral oncology agents and antibiotics.

Hongbo Yuan, Scientific Advisor, Canadian Agency for Drugs and Technologies in Health (CADTH), Ottawa, Canada

Hongbo Yuan has more than 15 years’ experience in drug clinical development, evidence-based decision-making and clinical epidemiology. At CADTH, Dr. Yuan provides scientific guidance and support in the assessment of drug effectiveness, safety, and evidence development for optimal drug use. He has broad interests in real-world observational data for health care decision-making, personalized medicine, systematic review of evidence and big data analytics in health care.