### Workshop Catalogue

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Description</th>
<th>AM</th>
<th>PM</th>
<th>Presenter(s)</th>
<th>Location</th>
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| A01  | Cardiac Magnetic Resonance Imaging: Experimental models and 4-dimensional hemodynamics   | This workshop is divided in the following sections:  
1. Brief presentation of the career path as cardiac MRI scientist.  
2. Interaction with cardiac MRI compatible 3D printing models used for in-vitro experiments.  
3. Observation of a cardiac MRI exam with a brief introduction of MRI physics with group dynamic activities.  
4. Review of a cardiac MRI exam and novel techniques for the assessment of four-dimensional hemodynamics. | 10  | 10  | Dr. Julio Garcia Flores  
( Radiology)  
Stephenson  
Cardiac Imaging  
Centre Boardroom |                          |
| A02  | A Career in Exercise Physiology: Research and Clinical Work                               | In this workshop, you will learn some of the basics of exercise physiology, as well as explore the unique academic and professional career paths.                                                                 | 10  | 10  | Dr. Nicholas Bray Courtney Ellis  
01504 |                          |
| A03  | The Human Body: A Primate-Microbe Hybrid                                                   | In this workshop, you will learn about the microbiome. We will discuss this dynamic community of microbes that exist in and on our bodies and how the community may shift during disease. Microscopes will be provided for you to visualize host associated microbes. | 0   | 25  | Diana Changirwa Mackenzie Gutierrez Karen Lithgow  
01503 | LCI Teaching Lab                   |
| A04  | Brain Imaging                                                                             | In this workshop, you will see brain imaging technologies in action, including functional magnetic resonance imaging and electroencephalography. (EEG) You will also see how high-intensity focused ultrasound can be used to treat neurological disorders. One lucky attendee will have the opportunity to wear an EEG head cap and see electrical signals being recorded from their brain. | 0   | 25  | Dr. Bradley Goodyear  
Seaman Family MR Research Centre |                          |
| A05  | Medical Genetics: A career as a genetic counsellor                                       | In this workshop you will learn about the exciting and rapidly evolving field of genetic counselling, the various career opportunities and the education/credentials required to enter the profession. We will also work through some case examples to get an idea of the role that genetic counsellors play in the healthcare of an individual/family. | 0   | 20  | Teresa Hunt  
G637 |                          |
| A06 | **Emergency Medicine: The thin slice** | What does a career in pre-hospital emergency medicine look like? What does the journey from paramedicine to medicine looks like? What has changed in emergency medicine over the last decade, and more recent stressors? How do the pre-hospital and hospital aspects of emergency medicine interact? Join us to find out! | 0 | 20 | Craig Bertagnolli  
Ian Cooper  
G643 |
| A07 | **A Day of Field Work on Sable Island** | Learn about research being conducted for the Sable Island Horse Project! As part of the Faculty of Veterinary Medicine, the Poissant Lab conducts extensive field work to investigate the ecology and evolution of Sable Island horses. Unlike traditional animal health sciences research, the Poissant Lab is limited to non-invasive techniques to understand the biology of these horses. Our lab capitalizes on the rich trove of biological information collected from fecal samples to test a variety of hypotheses relevant to the health of wild and domestic animals. Join us as we examine more than just a theory! | 18 | 18 | Micky Ahn  
Chanwoori Jeong  
Ihncheol Jung  
Sina Mohtaseb  
Rachel Reed  
HRIC BA65 |
| A08 | **Navigating Community-Based Research: Opportunities for social action and change** | Community-based research is “a research approach that involves active participation of stakeholders, those whose lives are affected by the issue being studied, in all phases of research for the purpose of producing useful results to make positive changes.” (Nelson, Ochocka, Griffin & Lord, 1998, p.12). In this workshop, you will gain an understanding of the fundamentals of community-based research. From building partnerships for research to mobilizing partnered research knowledge, you will be introduced to examples of successful projects and have an opportunity to discuss different case studies illustrative of challenges and possibilities in community-based research. | 40 | 0 | Dr. Meaghan Edwards  
O1509 / 1509A |
| A09 | **Diagnosis of Malaria: From traditional approaches to omics methods** | In this workshop, you will learn about the traditional approach to diagnose malaria and the new technologies that were developed in the past 50 years. In addition, we will open the discussion to new approaches and biomarkers, with current and past research helping to demonstrate the next challenges for malaria control and elimination. Activities may include looking at microscopy slides and point of care devices. | 15 | 0 | Claire Kamaliddin  
G748 |
| A10 | **Music, the Brain and Medicine: The AmbuloSonoACSCON Project** | Are you curious how we study the impact of music on the brain? This workshop starts with a brief lecture after which participants will be taught how to use wearable sensors and an app to measure the effect of music on walking and mental calculations. Wear comfortable shoes and come prepared for fun! You’ll also be taking part in an important research project in which your name and testing results remain anonymous at all times. | 60 | 60 | Dr. Bin Hu  
Adam David  
Elbert Tom  
Howard Leong  
Melody Chu  
Rose Muhammed  
Gala McCrown  
Jillian Kitt  
Khadiza Ahsan  
Shubh Patel |
| A11 | Biomedical Engineers: What do they do and how do you get into this field? | In this workshop we will introduce you to pathways to a career in health solutions powered by engineering and solving problems. How we interact with health care providers to find needs and solutions, and how novel technological health solutions get created? You will have a short experience designing a biomedical solution to illustrate the work that you would do in this exciting career! | 25 | 25 | Dr. Laura Curiel Dr. Michael Kallos G744 |
| A12 | Intro to Procedural Skills | This workshop will provide an introduction to some basic procedural skills used by physicians. Hosted by medical students from the U of C's Cumming School of Medicine, participants will experience hands-on learning as they rotate through three interactive stations. | 12 | 12 | Samuel Alatorre-Hinojosa Chelsea Barlow Alice Ko G732 |
| A13 | Deliveries and Discoveries | Join us to learn about the steps of a vaginal delivery and the principals of pelvic exams. Our second station will focus on laparoscopic skills that we use for gynecologic surgery. | 18 | 0 | Dr. Sarah Glaze Dr. Kimber Thornton |
| A14 | Family Medicine: The Everything Specialist! | Ever wonder what we do all day in family medicine? I bet you it's way more than you thought! From delivering babies, running codes, reading labs and x-rays, to examining patients and making difficult diagnoses. See it all and participate in a workshop that takes you through all aspects of family medicine. | 10 | 10 | Dr. Martina Kelly Dr. Vince Vong ATSSL Clinical Simulation Lab (G820) |
| A15 | Discovering and Modulating Brain Circuits | In this workshop you will learn about brain circuits involved in movement disorders, and how these can be modulated with Deep Brain Stimulation. | 0 | 10 | Dr. Camila Aquino Dr. Fady Girgis G748 |
| B01 | A Day in the Life of a Nursing Student | Ever wonder what nursing students learn and how they learn it? We invite you to explore UCalgary Nursing and our Clinical Simulation Learning Centre, a mock hospital setting right on the main UCalgary campus. In addition to touring our space, you may see some of our current undergraduate students practicing their skills. | 15 | 15 | Karen Cook Jeff Dawes Leah Tellier Professional Faculties Building 1297 |