

University of Manitoba
Thursday, November 13, 2025

100 Kellogg Lane, Unit 10, London ON N5W 0B4 T. 519.488.2003 cdnmedhall.ca

WORKSHOP CATALOGUE

ATTENTION:

When registering for workshops A01 and A02, **select A01 (as your morning workshop) AND A02 (as your afternoon workshop)**. If you select only one option, you may lose the spot and be assigned to another workshop with available seats.

These workshops are taking place at the St. Boniface Research Centre Youth BIOlab. Participants will travel by bus from the lab following the keynote lecture, remain at the Centre for lunch and the afternoon workshop, then return to the main hub at 2:30pm for the Career Panel.

Do not select these if you have any concerns about remaining at the lab for both sessions.

CODE	TITLE	DESCRIPTION	AM/PM	PRESENTER(S)
A01 & A02	Neuroscience and Cardiovascular Research at St. Boniface Hospital	In our morning workshop you will see how neuroscientists study memory and brain diseases such as Alzheimer's. You will get to dissect a real brain, view cells and tissues under the microscope and witness memory experiments that we use to understand brain function. In our afternoon session, you will see how cardiovascular scientists study heart disease from the molecular and cellular level to the whole organism. You will see live heart cells in the microscope, dissect a pig's heart to see how heart attacks happen and learn about how our scientists investigate stem cells for use in future therapies. We will tour our research floors and meet scientists and students who work on these problems every day.	25	Stephen Jones St. Boniface Hospital Albrechtsen Research Centre - SBRC Youth BioLab, RL016

When registering for the following workshops, make sure you select a different one for each segment:

CODE	TITLE	DESCRIPTION	AM	PM	PRESENTER(S)
B01	I ♥ Anatomy	Presenters will explain why they love anatomy and the joys of teaching it! The workshop will be a live lab where we will venture into the amazing anatomy of the human heart. We will teach you the chambers and valves, where the heart can be found in your chest wall and perhaps, we will have time to show you some pathologies. This lab is not for the faint of heart, pun intended! Have an open mind and great respect for our donors whose last wish was to study from their body donation. <i>Any inappropriate behavior in the lab, the student will be asked to leave.</i>	16	0	Leilanie Clayton & Madeline Damjanovic George Yee Laboratory of Anatomical Sciences

CODE	TITLE	DESCRIPTION	AM	PM	PRESENTER(S)
B02	PAPRs, Gloves, and Duct Tape: How to Dress for Success in a Containment Lab	Have you ever wondered how scientists in a high containment lab stay safe when working with pathogens like Anthrax or Ebola? Meet Samantha and Todd who work at the National Microbiology Laboratory (NML), Canada's only Level 4 containment lab! This workshop highlights the different types of PPE (Personal Protective Equipment), the different safety procedures, and the unique engineering systems used in the various containment levels at the lab to ensure that no one inside or outside the lab gets exposed to these nasty microbes! See a Level 4 suit up close and get a chance to put on a Tyvek suit. Plus, learn why they use so much duct tape when preparing to go into a containment lab! This is a great opportunity to discover the typical work life of a Biosafety Officer and a Biologist who share their personal experiences of working at the NML	24	0	Samantha Kasloff & Todd Cutts
B03	What's All the Stink About?: How Wastewater Surveillance Can Predict Disease Outbreaks	It's time to get down and "dirty"! Did you ever think that scientists and researchers could predict a disease outbreak from the wastewater going down your toilet? Meet Chrystal and Jennifer, a PhD scientist and Biologist who work in the Wastewater Genomics Unit at the National Microbiology Laboratory – predicting where <i>E.coli</i> , SARS-CoV-2, or Monkeypox might be showing up across Canada with their unique "early warning system"! In this workshop, you get to put on a lab coat and gloves to experience a simulated experience of how this lab detects pathogens from wastewater. If you've never used a pipette, a centrifuge or seen a nucleic extraction kit, this is the workshop for you!	0	24	Chrystal Landgraff & Jennifer Ali
B04	Turn Your Passion into a Career as a Dietitian	Join us for an exciting and interactive workshop designed to spark your interest in the world of nutrition and dietetics!	0	50	Kam Wan, Jessica Rutherford & Semone Myrie
B05	Dentistry: It's Not Just "Drill & Fill"	In this workshop we will talk about the dynamic and evolving field of dentistry including what's required for application to the Dr. Gerald Niznick College of Dentistry at the University of Manitoba. There is also a hands-on portion in our pre-clinical laboratory where we will experiment with common dental materials used in practice.	24	0	Vanessa Hunzinger, Cristina Fiuza & Jose Coreas
B06	Help people breathe, move, and live better: Explore Occupational, Physical, and Respiratory Therapy	Imagine helping someone take their first steps after an injury, regain independence in daily activities, or breathe easier after a serious illness. That's the real impact of Occupational, Physical, and Respiratory Therapy; three dynamic, in-demand professions focused on restoring function, improving quality of life, and empowering people to achieve their goals. In this experiential workshop, you'll interact with clinicians, try hands-on activities, and gain a deeper understanding of what it's like to work in these specialized fields. Dare to explore these three	45	0	Juan Garcia, Rolland Lavallée, Melissa Campbell & Ian Hay R006, R010, R052

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		professions and discover all the ways they can make a difference!			
B07	Hands-On Nursing Clinical Skills	Join us for an immersive workshop designed to enhance your nursing practical skills across critical areas of patient care. Practice your injection skills using injection pads on a mannequin. You'll work with alcohol pads, syringes, cotton balls, sterile gauze, and a variety of gloves. Perfect your technique and ensure patient safety through hands-on experience. Explore the essentials of oxygenation with a focus on asthma simulation. Utilize stethoscopes, O2 saturation monitors, and various mask types to assess and improve patient oxygen levels. Experience a live demonstration of a nebulizer with a simulated Ventolin treatment to see how effective oxygenation and medication can be. Develop your skills in basic patient assessment, including vital signs such as blood pressure, oxygenation, respiration, and temperature. The session will provide an opportunity to work with the necessary tools and materials to enhance your knowledge, hands-on experience, and skill-building in key areas of nursing patient care.	30	0	Elyse Griffith CLSP
B08	Why They Call It "Practice"	Learn the way med students do, as highly trained standardized patients simulate realistic scenarios wherein YOU are the doctor!	10	10	Tim Webster
B09	Clinical Health Psychology: Brains, Behaviour, and Beyond!	Do you ever wonder why people act the way they do? Are you curious about how the mind works, how mental health problems are diagnosed, and how therapy can help people feel better? Join us to learn about the work clinical psychologists do in Manitoba in areas like health, the brain, the justice system, and child development. See examples of leading-edge psychological research, find out how psychological tests are created and used, and try some therapy techniques yourself. You'll also get to ask questions to presenters at different stages of their careers. We'll share tips and resources to help you become a psychologist.	30	30	Maxine Holmqvist & Aleah Fontaine
B10	A Day at the Office	In this workshop students will interact with family physicians and trainee family medicine residents and experience some procedural skills such as otoscope, intramuscular injections and suturing.	36	0	Selena Papetti
B11	University of Manitoba Admission Requirements and Pathways to Health Careers	During this workshop you will learn about the general university of Manitoba Admission requirements as well as the pathways to the different health careers and what kinds of jobs and environments one could potentially work in. There will be a question-and-answer period at the end of the presentation.	40	60	Jessica Dunlop Theater A
B12	Beyond the Screen: Real Nurses. Real Futures. Launch	Did a medical TV show spark your interest in pursuing a career in healthcare? That's great!... but Hollywood doesn't always get it right! In this presentation, we will discuss pursuing a career in nursing. Over the years,	0	25	Caitlyn Farr & Michael Stevenson

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	<i>Your Nursing Career in Manitoba</i>	nursing has evolved into a diverse career field, integrating a high degree of biomedical knowledge, use of innovative technology, and inspiring systems change through patient care and advocacy. Learn more about the undergraduate nursing program and student experiences from the perspectives of instructors, and future career pathways that a BN degree could unlock. At the end of this presentation, students will learn hands-on about the realities of a notoriously misrepresented skill on the big screen: CPR!			
B13	<i>A Day in the Life of a Microbiologist</i>	Do you think medical research may be for you? This workshop will expose you to a day in the life of a medical microbiologist where you will visit an HIV and anti-microbial resistance lab. You will gain hands-on experience in various lab techniques used in the study of HIV and anti-microbial resistance and tour a Level 2 Containment Laboratory where research is being conducted on viruses such as HIV and Flu.	20	0	Natasha Hollett & Denice Bay Room 540B, Basic Medical Sciences Building
B14	<i>Honouring Our Traditional Medicines</i>	Situated on Treaty 1 Territory and the National Homeland of the Métis Nation, at Ongomiizwin Education, University of Manitoba, we honour the many gifts the land offers us—including our traditional medicines. In this session, we will share teachings about the meaning of Ongomiizwin, as well as introduce participants to some of the traditional medicines. The workshop will include a smudge ceremony and an opportunity to taste teas prepared with these medicines. Each participant will receive a small take-home tea pouch of traditional medicine with preparation instructions to enjoy some more tea later. Come share in ceremony, teachings, and tea with us.	0	20	Kimberly Hart, Chris Trimble, Derek Stewner & Andrea Young S206 Medical Services Building
B15	<i>Radiosurgery with the Gamma Knife and Edge Linear Accelerator</i>	Students will be shown how brain, lung and spine tumors and other benign abnormalities can be treated with multiple beams of radiation, as well as an explanation of standard radiation treatments. Computerized treatment planning will be demonstrated.	15	15	Eleanor Topacio, Charles Schroeder & Saranya Kakumanu
B16	<i>Under the Microscope: What IS pathology?</i>	In this workshop you'll learn about the medical science that involves the study and diagnosis of disease through the examination of surgically removed organs, tissues, bodily fluids, and in some cases the whole body (autopsy).	0	15	Gabor Fischer

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B17	<i>Discovering the Profession of Pharmacy</i>	Join us to find out what pharmacists really do and why their work matters. Through short presentations, real-life examples, and fun activities, you'll explore: Where pharmacists work – from hospitals to community pharmacies and beyond What their day looks like – helping patients, solving medication problems, and working with health-care teams How to become a pharmacist – the education and skills you'll need You'll get hands-on experiences, including an “escape room” challenge and a chance to try out different drug-delivery devices. It's a great way to see if a career in pharmacy could be right for you!	0	32	Sheila Ng & Kristi Watson
B18	<i>Look inside the body</i>	In this workshop we will explore the various modalities used to image the human body. Examples (power point) of X-rays, CT, MRI U/S will be presented.	0	10	Kathleen Scribner

Thank you to all our presenter volunteers, who are giving their time and knowledge so you can come and experience this Discovery Day!