



Canadian Medical Hall of Fame

Discovery Days

in HEALTH SCIENCES

PRESENTED BY



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Western University
Friday, May 8, 2026

WORKSHOP CATALOGUE

Code	Title	Description	AM	PM	Coordinator/Presenters (Department) and Location
A01	Why Everyone Wants a Career In Medical Imaging	In these workshops you will engage with technologists, radiologists, nurses, and nuclear medicine physicians who work with the latest imaging equipment (XRay, Ultrasound, Computed Tomography, Magnetic Resonance Imaging, SPECT CT, PETCT, Interventional Angiography) to understand the essential role of medical imaging in the diagnosis and treatment of the commonest diseases and conditions that affect our community. You will see detailed images of the brain, heart, lungs, and body that demonstrate the amazing advances that have been made in medical imaging to diagnose and treat patients with a stroke, a heart attack, with cancer and other major diseases. You will also be shown how Medical Imaging treats patients with some of these conditions and you will be able to ask the presenters about their career journey and how they play an important role in the health care journey of our neighbours, friends and family!	30	30	Narinder Paul (Medical Imaging) University Hospital
A02	The Human Brain: Function and Dysfunction in Dementia	This workshop will offer the opportunity for students to share their knowledge about dementia, provide basic concepts about dementia, exemplify lived experience of patients with dementia through published case reports, promote interactive learning on cognitive assessments, and discuss why there is increased need for professionals in the field as a result of growing older population	40		Carolina Silveira Isis So (Cognitive Neurology) TBD
A03	Dream Doctors	In this workshop you will learn what the life of an anesthesiologist is like and why we love our job. You will learn about intubations and other airway skills, ultrasound guided procedures, epidurals and resuscitation techniques. You will get hands-on experience practicing these skills on CSTAR task trainers.	20	20	Tammy Symons Saleh Al-Nahdi Curtis Van Doormal Malcolm Howard (Department of Anesthesia and Perioperative Medicine) University Hospital C3-170 Boardroom
A04	Seeing the Invisible: Introduction to 3D Dental Imaging	This small-group, interactive workshop introduces high school students to cone-beam computed tomography (CBCT) and its role in modern dentistry. Participants will explore basic jaw anatomy using real 3D scans and learn how		5	Gurkan Unsal Santiago Cobos (Dentistry)

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		clinicians interpret a straightforward pathology case. The session emphasizes visual understanding, clinical reasoning, and how imaging supports diagnosis and treatment planning.			SSMD-MSB-193CD-Classroom
A05	Purification of Enhanced Green Fluorescent Protein	The jellyfish <i>Aequorea Victoria</i> can emit a fluorescent glow because of a protein it produces naturally called green fluorescent protein. Because of its fluorescent properties, this protein has become a powerful tool for studying movement of proteins within cells. In this workshop, students will use an affinity tag and column chromatography to purify a modified version of green fluorescent protein from a complex mixture of proteins in a cell extract.		25	Derek McLauchlin (Biochemistry) MSB 117
A06	Extraction of DNA: Getting the Instruction Manual Out	Biochemistry and Synthetic Biology involve the manipulation of genetic information contained in the DNA sequence of genes from different organisms. To create novel genes with new functions the DNA must first be extracted from an organism and purified. In this laboratory exercise students will use biochemical techniques to extract, purify, and analyze DNA from bacterial cultures. Some of the techniques used by students in this lab will include: use of micropipettes, centrifugation, and spectrophotometry for measurement of DNA concentrations.	20		Brian Dempsey Anne Dempsey Kira Dempsey Milan Mammen (Biochemistry) Medical Sciences Building 120
A07	AI in Healthcare and the Humanities - Keeping it Human	Participants will learn of the current studies and investigations using AI in Healthcare. Various technologies will be displayed and discussed to demonstrate current state and future directions of integrations of these technologies in Healthcare. The session will close out with interactive workshop to perform clinician role playing using GEN AI LLM and interact with a mock patient AND create lyrics as a group to prompt SUNO GENAI music. The final discussion will be to reflect upon the impact of these technologies regarding sense of authorship, authenticity, emotional impact and impacts upon roles within healthcare to clinicians, patients and other allied health staff.	40	40	Keith Thompson (Medicine)
A08	Alzheimer's Disease: Seeing the World Through the Eyes of Someone with Dementia	Join us for an Immersive Education Session, where you'll step into the world of Beatriz, a woman living with Alzheimer's disease. This immersive 2D experience, also known as "empathy education," allows you to see the world through the eyes of someone with dementia. Through this session, you'll gain a deeper understanding of how the brain functions and the ways dementia affects it—helping you truly grasp	25	25	Anita Looby Rebekah Lindsay

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		what it's like to live with dementia. This session will also include a hands-on learning activity called "aging simulation challenge." Students will experience what it is like to navigate age associated cognitive changes. This activity will emphasize the importance of positive approaches to care/interactions and provide tools to enhance communication skills.			
A09	Physiotherapy: Exploring Different Areas of Practice	In this interactive workshop, you will have the chance to hear about what it is like to work in different areas of physiotherapy practice. You will also get the chance to experiment with performing a variety of common physiotherapy assessment and treatment techniques.	20		Angelo Boulougouris Erin Miller Tina Ziebart (Physiotherapy) (Ronald D.) Schmeichel Entrepreneurship and Innovation Building 3rd floor lab room 1
A10	The Art and Science of Fueling Athletes	Think fueling an athlete is simple? Think again! Successful performance starts with a masterclass in nutrition. In this workshop, you'll dive into the strategies sports dietitians use to help athletes crush their goals and sample some of the snacks that make it happen	20	20	Olivia McAllister (Dietetics) AP 1009 and AP 2005
A11	Mix, Inject, Heal: Exploring the Science of Injectable Gels for Blood Clotting Application	In this hands-on workshop, you'll become a biomedical engineer for a day! You'll try to create an injectable hydrogel with two prepared liquid solutions, then test if it can actually be injected through a syringe and promote blood clotting—just like real researchers do when designing new medical treatments. Along the way, you'll learn how injectable hydrogels are used in medicine, from healing wounds to delivering drugs, and the easy-to-understand science behind it. Get ready to do experiments, solve problems, and discover the future of biomaterials		20	Wei Luo (Biomedical Engineering) Arts and Humanities Building 1B08
A12	A Day in the Life of a Pediatric Surgeon	In this workshop, students will get exposed to what life is like as a pediatric surgeon. We will discuss the common surgeries performed, clinical conditions that we treat, and what our day to day life looks like. We will also discuss the path to medicine, surgical training and pediatric surgery.	40	40	Natashia Seemann (Surgery)
A13	MedReach Presents: Exploring Paths to Medicine & Suturing Workshop	Join us for an engaging workshop where you'll learn from medical students about the various paths you can take to pursue a career in medicine. You'll also get hands-on experience with suturing and have plenty of opportunities to ask questions about high school, undergrad, medical school, and beyond!	25	25	Madhura Deshpande (Medicine)

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A14	Whodunit: The Curious Case of the Knee	A mysterious "murder" has occurred and the victim was a knee joint. Participants will work in teams to investigate the scene and determine what caused the damage. Moving through a series of investigative stations, teams will analyze anatomical evidence, interpret physiological clues, and examine pathological findings using tools such as medical images and specimen observations. After identifying the culprit behind the injury, participants will explore possible pharmacological treatments to determine the most appropriate "sentence." This interactive mystery encourages teamwork, critical thinking, and creative engagement, while highlighting the interdisciplinary collaboration often seen in scientific and biomedical research	30	30	Amna Farhad Tim Wilson (Physiology & Pharmacology) Likely DSB 2005
A15	Designing Smiles: The Science, Art, and Heart of Dentistry	In this workshop, students will explore how dentistry blends health science, artistry, and patient care. They will discover that dentistry is a unique profession where scientific knowledge, creative skill, and compassion meet every day. Dentists diagnose and treat oral conditions such as dental caries and gingivitis while also restoring the appearance and function of a patient's smile. By improving oral health, dentists not only help patients eat and speak comfortably but also enhance their confidence and overall quality of life. Through engaging examples and interactive discussion, students will learn how dentists think critically, work with precision, and apply artistic techniques to achieve natural-looking results. They will also see how restoring a smile can have a profound psychological impact, helping patients feel more confident in their daily lives. This workshop offers a glimpse into a profession where improving someone's smile can truly transform their health, well-being, and self-esteem.	16	16	Selma Saadaldin (Dentistry) University Community Centre 63
A16	Scan Me If You Can: An Introduction to Point of Care Ultrasound & Core Clinical Skills	Curious how doctors see inside the body without surgery? This session introduces students to point-of-care ultrasound (POCUS), a powerful bedside tool in emergency situations. Through live demonstrations and hands-on exploration, participants will learn basic principles of ultrasound, visualize organs in	10	10	Canadian Association of Latin Medical Students

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		motion, and discover how this technology supports diagnosis and patient care. Students will also gain a glimpse into the skills medical students learn during their pre-clerkship years such as using a stethoscope and performing a neurological reflex exam. About us: CALMS (Canadian Association of Latin Medical Students) aims to build community and increase representation of Latin American healthcare providers in Canada			
A17	Acoustics, Sound Localization, and Audiology	Through demonstrations and activities using equipment and acoustic facilities within the National Centre of Audiology and the School of Communication Sciences and Disorders, students will learn about room acoustics, sound localization, and the profession of clinical Audiology. Presenters: Ewan Macpherson, PhD will discuss how we localize sounds and will direct a listening activity in the NCA's Anechoic Chamber. Students will also tour the Reverberation Chamber and talk about the effects of echo on hearing, especially for those with hearing loss. Jack Scott, PhD will help participants learn to perform hearing tests using CARL, a simulation manikin that was developed at Western University, and will describe how it is used in teaching Audiology students here at Western and around the world	8	8	Ewan Macpherson Jack Scott (Audiology) Elborn College Rooms 1212 and 2508
A18	Human Speech Production: Analyzing YOUR Voice	Learn how humans produce speech and what makes one vowel sound different from another. You will record your own voice and analyze your voice pitch and the characteristics of your own vowel sounds. The software we will use is freely available on the Internet, so you can explore more about sound later at home and school.	8	8	David Purcell (Speech Language Pathology)