



Faculty of Medicine 2022 Spring Virtual Research Showcase

Tuesday, March 1, 2022 | 10:00 AM– 4:00 PM PST

TIME	SESSION	
10:00 - 10:10	Welcome and Opening Remarks Dr. Michael A. Hunt (Associate Dean, Graduate and Postdoctoral Education, FoM; Professor, Department of Physical Therapy)	
10:10 - 10:55		
MAIN ROOM – FoM 3MT HEAT Moderator: Dr. Michael A. Hunt		
10:10 - 10:15	Amy Wang <i>(MD/PhD Candidate, Interdisciplinary Oncology)</i>	Drug targeting drivers of synovial sarcoma development
10:15 - 10:20	Che-Min Lee <i>(PhD Candidate, Interdisciplinary Oncology)</i>	Anti-hypertensive Drug Modulates Cancer-Associated Fibroblasts to Improve Radiation Response
10:20 - 10:25	Courtney van Ballegooye <i>(PhD Candidate, Interdisciplinary Oncology)</i>	Microfluidic Synthesis of Protein-Gold Nanoparticle Hybrids: Potential for X-Ray triggered drug release
10:25 - 10:30	Judy Cheng <i>(MSc Student, Neuroscience)</i>	Behavior characterization of the Q175/B6 Huntington’s disease mouse model
10:30 - 10:35	Katerina Schwab <i>(MD Candidate, Doctor of Medicine Program)</i>	Survey of the impact of COVID-19 on chronic liver disease patient care experiences and outcomes
10:35 - 10:40	Nicolas Pereyra <i>(MSc Student, Biochemistry and Molecular Biology)</i>	Modified Platelet Storage Device to Improve Quality During Storage
10:40 - 10:45	Marie-Soleil Smith <i>(PhD Candidate, Pathology and Laboratory Medicine)</i>	Second-Generation Integrase Inhibitors Induce Toxicity and Differentiation in Human Embryonic Stem Cell Models
10:45 - 10:50	Yi Yang <i>(MSc Student, Pathology and Laboratory Medicine)</i>	The impact of chronic/latent viral infections on aging in people living with HIV
10:50 - 10:55	Nafeez Syed <i>(PhD Candidate, Rehabilitation Sciences)</i>	Effect of Traffic Related Air Pollution on Exercise Endurance and Cardiorespiratory Responses in COPD
10:55 - 11:00	Avril Li, <i>(MSc Student, Population and Public Health)</i>	15- minute city in Metro- Vancouver
11:00 - 11:50	BREAK	
11:50 - 12:00	3MT Winners Announcement	



10:10 - 11:27		
BREAKOUT ROOM 1 – CLINICAL SESSION		
Moderator: Dr. Yan Gao		
10:10 - 10:17	Ali Hosseinzadeh <i>(Hon BSc student, Cellular, Anatomical, and Physiological Sciences)</i>	No Pain, More Gain: Oxycodone/Naloxone Combination Provides Pain and Constipation Control following Spinal Cord Injury
10:17 - 10:24	Cristina Rubino <i>(PhD Candidate, Rehabilitation Sciences)</i>	Skilled reaching after stroke promotes human brain myelin
10:24 - 10:31	Fazila Kassam <i>(MD Candidate, Doctor of Medicine Program)</i>	Pediatric Pain Management in the Niagara Region Emergency Department - are we meeting the standards?
10:31 - 10:38	Kaya Yoshida <i>(PhD Candidate, Rehabilitation Sciences)</i>	Detecting differences in gait initiation between older adult fallers and non-fallers through time-series principal component analysis (PCA)
10:38 - 10:45	Lu Kun (Dary) Chen <i>(MD Candidate, Doctor of Medicine Program)</i>	Temporal Trends in Pyrophosphate Scan Use for the Diagnosis of Transthyretin Cardiac Amyloidosis
10:45 - 10:52	Nejat Hassen <i>(MSc Student, Population and Public Health)</i>	Predictors of health-related quality of life in individuals living with rheumatoid arthritis
10:52 - 10:59	Tamila Kalimullina <i>(MSc Student, Experimental Medicine)</i>	Are local analgesics effective for reducing the severity of autonomic dysreflexia after spinal cord injury?
10:59 - 11:06	Umaimah Zanif <i>(MSc Student, Interdisciplinary Oncology)</i>	The BC Generations Project as a tumor tissue resource for cancer research
11:06 - 11:13	Elahe Shenasa <i>(PhD Candidate, Interdisciplinary Oncology)</i>	Neither Tumor Infiltrating Lymphocytes nor Cytotoxic T cells Predict Enhanced Benefit from Chemotherapy in the DBCG77B Phase III Clinical Trial
11:13 - 11:20	Emilie Theberge <i>(MSc Student, Medical Genetics)</i>	Investigating sex differences in the polygenic risk of major depressive disorder and shared associations with cardiovascular disease in the Canadian Longitudinal Study on Aging (CLSA)
11:20 - 11:50	BREAK	



10:10 - 11:06		BREAKOUT ROOM 2 – BIOMEDICAL SESSION
Moderator: Richa Sharma		
10:10 - 10:17	Erin Tanaka (<i>MSc Student, Pathology and Laboratory Medicine</i>)	Methylglyoxal Induced changes to pro-inflammatory T cell function
10:17 - 10:24	James Saville (<i>PhD Candidate, Biochemistry and Molecular Biology</i>)	SARS-CoV-2 variant characterization
10:24 - 10:31	John Price (<i>MASc Student, Biomedical Engineering</i>)	Machine Learning to Decrease 3D Volume Image Acquisition Time for SLAP2 Microscopy
10:31 - 10:38	Kate Huang (<i>PhD Candidate, Experimental Medicine</i>)	Characterizing a mutation in the giant protein titin implicated in heart rhythm disorders
10:38 - 10:45	Kiersten Thomas (<i>PhD Candidate, Interdisciplinary Oncology</i>)	Angiotensin II Type 1 Receptor Blockers (ARBs) and the Tumour Immune Microenvironment
10:45 - 10:52	Loulou Cai (<i>MSc Student, Pathology and Laboratory Medicine</i>)	HIV Integrase Inhibitor Bictegravir Inhibits Proliferation, Increases Apoptosis and Mitochondrial Damage in Peripheral Blood Mononucleated Cells (PBMCs) Ex Vivo
10:52 - 10:59	Ryan Hoiland (<i>Postdoctoral Fellow, Cellular and Physiological Sciences</i>)	Adjuvant Ethyl Nitrite Improves Spinal Po2 Following Traumatic Spinal Cord Injury
11:00 - 11:50	BREAK	

12:00 - 13:00		MAIN ROOM – KEYNOTE
12:00 - 12:05	Introductions Dr. Rob McMaster (Vice Dean, Research, FoM; Professor, Dept of Medical Genetics)	
12:05 - 12:10	Introduction of 2020 Faculty of Medicine Distinguished Researcher Dr. Jon Stoessel (Head, Division of Neurology; Professor, Dept of Medicine)	
12:10 - 12:50	Keynote by 2020 Faculty of Medicine Distinguished Researcher Dr. Judy Illes (Professor, Dept of Medicine, Division of Neurology; Canada Research Chair in Neuroethics; Director, Neuroethics Canada)	
12:50 - 13:00	Q&A Session Moderator: Dr. Michael A. Hunt (Associate Dean, Graduate and Postdoctoral Education, FoM; Professor, Department of Physical Therapy)	



13:00 - 14:10		MAIN ROOM – CLINICAL SESSION Moderator: Dr. Yan Gao
13:00 - 13:07	Guadalein Tanunliong (MSc Student, Pathology and Laboratory Medicine)	Persistence of Anti-SARS-CoV-2 Antibodies in Long Term Care Residents Over Seven Months After Two COVID-19 Outbreaks
13:07 - 13:14	Katrina Besler (MD/PhD Candidate, Experimental Medicine)	Increasing circulating Lysosomal Acid Lipase in a mouse model of atherosclerosis using lipid nanoparticles
13:14 - 13:21	Mai-Lei Woo Kinshella (PhD Candidate, Reproductive & Developmental Sciences)	Malaria in pregnancy and the risk of developing pre-eclampsia
13:21 - 13:28	Megan Liu (MSc Student, Neuroscience)	Assessing motivation for exercise using a wheel running task
13:28 - 13:35	Megan Karpenko (MD Candidate, Doctor of Medicine Program)	Sexual health indicators and behaviors of a human papillomavirus (HPV) vaccinated cohort of female adolescents in Canada
13:35 - 13:42	Melissa Woodward (Postdoctoral Fellow, Pediatrics)	Using MyHEARTSMAP to evaluate the impact of the COVID-19 pandemic on the psychosocial status of British Columbia children and youth, and to inform mental health resources planning: A cross-sectional study
13:42 - 13:49	Nisha Marshall (MSc Student, Reproductive & Developmental Sciences)	Deep and Superficial Dyspareunia Questionnaire (DSDQ) to capture the physical characteristics and psychosocial correlates of deep and superficial dyspareunia
13:49 - 13:56	Stephanie Alexis (MD Candidate, Doctor of Medicine Program)	Perioperative Nutrition: Getting to the Meat of the Matter
13:56 - 14:03	Tetiana Povshedna (MSc Student, Pathology and Laboratory Medicine)	Prevalence and Characteristics of Chronic Pain in Women Living with and without HIV: Preliminary Data from the British Columbia CARMA-CHIWOS Collaboration (BCC3) Study
14:03 - 14:30	BREAK	



13:00 - 14:10		
BREAKOUT ROOM 1 – BIOMEDICAL SESSION		
Moderator: Richa Sharma		
13:00 - 13:07	Alyssa Ash (<i>PhD Candidate, Neuroscience</i>)	Vulnerability to Tau Pathology in the Entorhinal-Hippocampal Circuit
13:07 - 13:14	Jerry Leung (<i>PhD Candidate, Biochemistry and Molecular Biology</i>)	Lipid Nanoparticle (LNP)-mediated delivery to produce engineered and transfusable platelets
13:14 - 13:21	Divya Kriti (<i>PhD Candidate, Biochemistry and Molecular Biology</i>)	A systematic strategy to link human genetic variations to drug response
13:21 - 13:28	Colton Strong (<i>MSc Student, Biochemistry and Molecular Biology</i>)	LNP approach to express exogenous protein in platelets
13:28 - 13:35	Lucas Starchuk (<i>MSc Student, Pathology and Laboratory Medicine</i>)	Role of XOR in modulating pro-inflammatory macrophage function and investigate its potential as a therapeutic target in diabetes.
13:35 - 13:42	Madeline Lauener (<i>PhD Candidate, Pathology and Laboratory Medicine</i>)	CD56brightCD16- natural killer regulatory cells in chronic graft-versus-host disease
13:42 - 13:49	Madison Bittner (<i>MSc Student, Reproductive & Developmental Sciences</i>)	Evaluating biomarkers of response to CDK4/6 inhibition in breast cancer cell lines
13:49 - 13:56	Rocky Shi (<i>PhD Candidate, Interdisciplinary Oncology</i>)	Role of ILK in TGF- β induced EMT and Osimertinib resistance in LUAD
13:56 - 14:03	Terri Ser (<i>MSc Student, Pathology and Laboratory Medicine</i>)	Investigating GLUT1 Function in Glucose-Restricted CD8+ T cells
14:03 - 14:10	Muhammad Umar Ali (<i>BASc Student, Biomedical Engineering</i>)	Generating Clinical Images of Skin Disorders for Patients of Color Using A Style-Based Generative Adversarial Network
14:10 - 14:30	BREAK	

13:00 - 13:28		
BREAKOUT ROOM 2 – Multidisciplinary Research Program in Medicine		
Moderator: Dr. Courtney Bryce		
13:00 - 13:07	Noah Stewart, <i>MRPM</i>	Three-Dimensional, Microscale In-Vitro Model for Studying Axon Growth
13:07 - 13:14	Sowmya Gopalakrishnan & Devyani McLaren, <i>MRPM</i>	Is DeepLabCut useful for capturing human movement? - An Exploratory Study
13:14 - 13:21	William Gervasio, Emili Gubskya, & Madison Hung, <i>MRPM</i>	Interactive Visualization of Integrative Multi-omics Vaccinology Models for Predictive Biomarkers
13:21 - 13:28	Waris Bhatia, <i>MRPM</i>	Moving Towards Universal Donor Blood: Development of Stealth Red Blood Cells Through Novel Cell Surface Engineering Methods



14:30 - 15:45		MAIN ROOM - KEYNOTE & CLOSING
14:30 - 14:35		Introduction of 2020 Faculty of Medicine Distinguished Researcher Dr. Michael Hayden (Professor, Dept of Medical Genetics; University Killam Professor; Canada Research Chair in Human Genetics and Molecular Medicine)
14:35 - 15:20		Keynote by 2020 Faculty of Medicine Distinguished Researcher Dr. Michael Kobor (Professor, Dept of Medical Genetics; Canada Research Chair in Social Epigenetics; Sunny Hill BC Leadership Chair in Child Development)
15:20 - 15:30		Q&A Session Moderator: Dr. Bruce Verchere (Professor, Depts of Surgery and Pathology & Laboratory Medicine; Irving K Barber Chair in Diabetes Research)
15:30 - 15:40		Award Presentations Dr. Michael A. Hunt
15:40 - 15:45		Closing Remarks Dr. Michael A. Hunt