



THE UNIVERSITY OF BRITISH COLUMBIA

Faculty of Medicine

BUILDING THE FUTURE: RESEARCH TRAINEE DAY & LECTURE SERIES



MARCH 7, 2024
8.30 AM - 4.30 PM
UBC Life Sciences
Centre



AGENDA

Graduate and Postdoctoral Education Office
med.gradpostdoc@ubc.ca



Building the Future: Research Trainee Day & Lecture Series

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|----------------------|--|---|
| 8:30 - 9:00 | REGISTRATION and BREAKFAST (LSC West Atrium) | |
| 9:00 - 9:10 | LAND ACKNOWLEDGEMENT & WELCOME ADDRESS (LSC 1002) Dr. Roger Wong (Vice Dean, Education; Clinical Professor, Division of Geriatric Medicine) Dr. Miriam Spering (Associate Dean, Graduate and Postdoctoral Education; Associate Professor, Dept of Ophthalmology and Visual Sciences) | |
| 9:10 - 9:40 | KEYNOTE I (LSC 1002) Dr. Catriona Hippman, PhD, CGC Postdoctoral Research Fellow, Department of Obstetrics and Gynaecology, UBC | |
| | Moderator: Dr. Miriam Spering | |
| 9:45 - 11:45 | Faculty of Medicine 3 MT Thesis HEAT (LSC 1002) | |
| 9:45 - 11:45 | TRAINEE ORAL PRESENTATIONS Session I BIOMEDICAL (LSC 1312) | |
| 11:45 - 12:30 | LUNCH (LSC West Atrium) | |
| 12:30 - 14:00 | TRAINEE POSTER SESSION (LSC West Atrium) | |
| 13:30 - 15:30 | TRAINEE ORAL PRESENTATIONS | |
| | Session II (CLINICAL) Room: LSC 1002 | Session III (POPULATION HEALTH) Room: LSC 1312 |
| 15:30 - 15:45 | COFFEE BREAK (West Atrium) | |
| 15:45 - 16:15 | KEYNOTE II (LSC 1002) Dr. Miffy Cheng, PhD Nano Medicine Network Research Fellow in Gene Therapy Department of Biochemistry and Molecular Biology, UBC | |
| | Moderator: Dr. Stefka H. Marinova-Todd, Ed.D. (Associate Professor, School of Audiology & Speech Sciences) | |
| 16:15 - 16:30 | CLOSING: Award Presentations and Closing Remarks (LSC 1002) Dr. Miriam Spering | |



WELLBEING AT BUILDING THE FUTURE



LSC 1391 & 1392

9:45 – 15:45 Wellness Lounge

Drop-in, low stimulation space for relaxation & joy. Create DIY tools for self-care, get crafty with art supplies, and connect with colleagues over games & tea.



ASMAE EL-BOUHALI

Clinical Counsellor for Faculty of Medicine graduate students



W Atrium



9:45 – 12:30

Wellness Booth

Q&A with Wellbeing Support Coordinator, Alisha Lettman

11:45 – 13:00

Smoothie Bike

Movement Break with MoveU

13:15 – 13:45

Meet & Greet

with Asmae



LSC 1312

15:30 – 15:45

Wellbeing Trivia
+ Prizes with MoveU





PROGRAM DETAILS

Faculty of Medicine 3MT Thesis HEAT (9.45 – 11.45 | LSC 1002)

Moderator: Layan Bashi, Masters Student, Women+ and Children's Health Sciences (WACH)

| S.no. | Presenter | Presentation Title |
|-------|--|---|
| 1 | Saif Dababneh <i>MD/PhD Student</i> | A human stem cell-based heart model to study a newly described cardiac arrhythmia syndrome |
| 2 | Yi Gu <i>PhD Student, Neuroscience</i> | Cognitive reserve: Investigate the efficacy of resistance training on cognitive reserve in older adults with subcortical ischemic vascular cognitive impairment |
| 3 | Christina Whang <i>Masters Student, Experimental Medicine</i> | Fatigue properties of the first dorsal interosseus muscle in spinal cord injury |
| 4 | Vivien Dang <i>Masters Student, Biochemistry & Molecular Biology</i> | Identification of Microglial Receptors Responsive to Gut Microbiota-Derived Metabolites |
| 5 | Kimberly Wong <i>Masters Student, Biochemistry & Molecular Biology</i> | Relationship between Enzyme and Organism Phenotype in Evolution |
| 6 | Stephanie U <i>Masters Student, Population & Public Health</i> | Does night shift work age you prematurely? |
| 7 | Hiro Ito <i>Masters Student, Population & Public Health</i> | Living Well with Dementia in the Japanese Canadian Community |
| 8 | Astou Thiam <i>PhD Student, Rehabilitation Sciences</i> | Exploring the experiences of African immigrants in Metro Vancouver through a lens of hospitality |
| 9 | Signe MacLennan <i>PhD Student, Medical Genetics</i> | Driving in circles: how circular DNA drives cancer treatment resistance |
| 10 | Lianne Cho <i>MD/PhD Student</i> | Characterization of depression, suicidal ideation, and anxiety among adults who are homeless or precariously housed |
| 11 | Ramlogan Sowamber <i>PhD Student, Medical Genetics</i> | Assessing the impact of Opportunistic Salpingectomy (OS) from a molecular perspective. |
| 12 | Andy Jia <i>Masters Student, Interdisciplinary Oncology</i> | Enhancing Early Relapse Detection in Testicular Cancer through Rolling Circle Amplification of microRNA Biomarkers |
| 13 | Daniel Elesin <i>Masters Student, Rehabilitation Sciences</i> | Impact of Aerobic Fitness on Intra-Individual Variability in Older Adults with Stroke |
| 14 | Parisa Golesorkhi <i>Masters Student, Pathology & Laboratory Medicine</i> | Development of bifunctional antibacterial coating for platelet storage bags |



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| 15 | Wan Hei (Melody) Cheng <i>Masters Student, Pathology & Laboratory Medicine</i> | Inflammation in heart disease: Who needs to take the drugs? |
| 16 | Christopher Lamb <i>Masters Student, Rehabilitation Sciences</i> | Brain sensorimotor changes associated with symptomatic knee osteoarthritis |



ORAL PRESENTATIONS

SESSION I: BIOMEDICAL (09:45 - 11:45 | Room: LSC 1312)

Moderator: Sanarya Aljaf, PhD Student, Anesthesiology, Pharmacology and Therapeutics

| S.no. | Presenter | Presentation Title |
|-------|---|---|
| 1 | Allyson Banville <i>PhD Student, Interdisciplinary Oncology</i> | B cell self-reactivity: bane of autoimmune disease, boon of anti-tumor immunity? |
| 2 | Tony Liang <i>Masters Student, Bioinformatics</i> | Nextflow Pipeline for Benchmarking Integrative Multi-Omics Methods for Disease Classification |
| 3 | Vriti Bhagat <i>PhD Student, Pathology & Laboratory Medicine</i> | Investigating Proinsulin Processing Deficiencies in Non-Obese Diabetic Mice |
| 4 | Denitsa Vasileva <i>PhD Student, Bioinformatics</i> | The Centenarian Epigenetic Clock in the Canadian Longitudinal Study on Aging |
| 5 | Eric Xiang <i>PhD Student, Experimental Medicine</i> | Macrophage-Smooth Muscle Cell Interactions in Atherosclerotic Foam Cell Formation |
| 6 | Rachel Cederberg <i>Postdoctoral Fellow, Integrative Oncology</i> | Ly6C+ monocytes and monocyte-derived dendritic cells boost the efficacy of adoptive T-cell therapy in murine lymphoma |
| 7 | Margarita Kapustina <i>Masters Student, Neuroscience</i> | The cell-type-specific spatial organization of the anterior thalamic nuclei of the mouse brain |
| 8 | Torin Halvorson <i>MD/PhD Student</i> | MHC II-specific chimeric antigen receptor regulatory T cells for transplantation tolerance |
| 9 | Fang Fang Li <i>PhD Student, Pathology & Laboratory Medicine</i> | Phage immunoprecipitation sequencing in the aetiological diagnosis of neurological disorders |
| 10 | Liam Johnston <i>Masters Student, Interdisciplinary Oncology</i> | Increased Glut1 Expression on CD8+ T cells Improves Adoptive Cellular Therapy |
| 11 | Christy (Oi Ting) Kwok <i>Masters Student, Neuroscience</i> | Novel, Standardized Social Interaction Arena for Determination of Brain Circuits Underlying Mouse Social Behavior |
| 12 | Jana Jajarmi <i>Masters Student, Interdisciplinary Oncology</i> | Identifying Modifiers of EGFR Induced Tumourigenesis to Develop New Therapeutic Strategies for Lung Cancer |
| 13 | Heather Betz <i>PhD Student, Medical Genetics</i> | ULK1 Inhibition to Overcome Autophagy-Mediated Venetoclax Resistance in Acute Myeloid Leukemia |
| 14 | Xin Qin <i>PhD Student, Neuroscience</i> | Significant roles of supramammillary nucleus (SuM) vigilance and memory deficits in spontaneously hypertensive (SHR) rat, an animal model of ADHD |



SESSION II: CLINICAL (13:30- 15:30, LSC 1002)

Moderator: Philipp Kreyenmeier, PhD student, Neuroscience

| S.no. | Presenter | Presentation Title |
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| 1 | Madeline Lauener <i>PhD Student, Pathology & Laboratory Medicine</i> | NKreg cells associated with the suppression of cGvHD prevent CD4+ T cell proliferation through PD-1 and LAG-3 dependent pathways. |
| 2 | Karan Parekh <i>PhD Student, Experimental Medicine</i> | Leveraging Liquid Biopsy ctDNA Analysis to Predict Treatment Response in Late-Stage Prostate Cancer |
| 3 | Rachel Woima <i>Masters Student, Women+ and Children's Health Sciences (WACH)</i> | The Progesterone Challenge Test to identify populations at high risk for endometrial cancer: a diagnostic accuracy systematic review and meta-analysis |
| 4 | Matt Noseworthy <i>PhD Student, Neuroscience</i> | Supporting Aging through Green Exercise |
| 5 | Spencer Anderson <i>PhD Student, Medical Genetics</i> | Genetic variants in CYP1B1, ANKLE2 and HLA-DRB1 are associated with l-asparaginase-induced hypersensitivity |
| 6 | Monica Bronowski <i>Masters Student, Experimental Medicine</i> | Exploring Donor-to-Recipient Transfer of Urinary Microbiome in Kidney Transplants through Shotgun Metagenomics and 16S Sequencing |
| 7 | Uyanga Ganbat <i>PhD Student, Experimental Medicine</i> | Quadriceps Muscle Thickness Measured by Point-of-Care Ultrasound and Hospital Length of Stay |
| 8 | Che-Min Lee <i>PhD Student, Interdisciplinary Oncology</i> | Blood pressure medication to improve head and neck cancer radiation treatment |
| 9 | Teesha Baker <i>Postdoctoral Fellow, Pediatrics</i> | Innovative CAR-NK Cell Therapy for High-Risk Neuroblastoma: Advancing Pediatric Oncology |
| 10 | Anjana Rajendran <i>Masters Student, Neuroscience</i> | Characterizing the relationship between inter-neuronal activation in the primary motor cortex (M1) and clinical motor outcome measures after stroke |
| 11 | Guilherme Moraes Balbim <i>Postdoctoral Fellow, Physical Therapy</i> | 24-hour activity cycle behaviours and brain volume in people with mild cognitive impairment: A compositional analysis. |
| 12 | Andy An <i>MD/PhD Student</i> | Machine learning analysis of the neonatal transcriptome identifies predictive biomarkers for neonatal sepsis at birth |



SESSION III: Population Health (13:30- 15:30, LSC 1312)

Moderator: Allyson Banville, PhD Student, Interdisciplinary Oncology

| S.no. | Presenter | Presentation Title |
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| 1 | Nirma Vadlamudi <i>Postdoctoral Fellow, Pediatrics</i> | Healthcare Resource Use for Acute Respiratory Syncytial Virus Pediatric Hospitalization in infants from Canada: Immunization Monitoring Program ACTIVE (IMPACT) analysis |
| 2 | Saud Lingawi <i>PhD Student, Biomedical Engineering</i> | Wearable Devices for Out-of-Hospital Cardiac Arrest: A Population Survey on Design Preferences and Willingness to Adhere |
| 3 | Kidus Achalu <i>Masters Student, Pathology & Laboratory Medicine</i> | Proteomic Profiles of Youth Athletes at Pre- and Post- Sports-Related Concussion |
| 4 | Sahi Hajirawala <i>Masters Student, Experimental Medicine</i> | Characterizing socio-demographic, clinical, and substance use-related factors associated with employment in treatment-seeking adults with opioid use disorder (OUD) initiating opioid agonist therapies (OATs) |
| 5 | Janna Griffioen <i>PhD Student, Rehabilitation Sciences</i> | Understanding Social Support: A Qualitative Study Exploring post-TBI dynamics |
| 6 | Kelvin Wu <i>Masters Student, Experimental Medicine</i> | Factors associated with frequency of drug checking service utilization in British Columbia |
| 7 | Codie Primeau <i>Postdoctoral Fellow, Rehabilitation Sciences</i> | What challenges and opportunities do physiotherapists encounter in integrating interventions to promote sleep for individuals with arthritis |
| 8 | Ramin Rezaeianzadeh <i>Masters Student, Experimental Medicine</i> | Investigating the Association Between Aromatase Inhibitors and Dry Eye Disease Among Women with Breast Cancer |



POSTER SESSION (12:30 - 14:00, LSC West Atrium)

| S.no. | Presenter | Presentation Title |
|-------|--|---|
| 1 | Jeffrey Tang <i>Masters Student, Bioinformatics</i> | CytokineFinder: Benchmarking methods and databases for identifying cytokines |
| 2 | Arshdeep Khurana <i>Masters Student, Biomedical Engg.</i> | Intraoperative near-infrared imaging for assessment of human kidney transplant hemodynamics |
| 3 | Claire Hales <i>Postdoctoral Fellow, Psychology</i> | Computational modeling reveals the use of differing decision-making strategies that explain performance on a cognitively effortful attention task in rats |
| 4 | Mohammad Ghodsi <i>Masters Student, Pathology & Laboratory Medicine</i> | Preliminary description of neurological blood-based biomarkers in survivors of intimate partner violence |
| 5 | Michael Hall <i>PhD Student, Interdisciplinary Oncology</i> | Pyruvate supplementation modifies the metabolic landscape and improves effector molecule expression in hypoxic CD8+ T cells |
| 6 | Hebah Hussaina <i>Masters Student, Women+ and Children's Health Sciences (WACH)</i> | Supporting Greater Vancouver Secondary School Students' mental health through time outdoors: A qualitative investigation |
| 7 | Daniel Sastre Martinez <i>Postdoctoral Fellow, Pharmacology & Therapeutics</i> | Understanding the gating of cardiac channel IKs using Markov models of channels with less than 4 functional voltage sensors |
| 8 | Sarah Hanstock <i>PhD Student, Experimental Medicine</i> | The protective effects of butyrate in kidney stone disease |
| 9 | Enav Zusman <i>PhD Student, Women+ and Children's Health Sciences (WACH)</i> | Associations between prenatal exposure of serotonergic medications and biobehavioral stress regulation: A systematic review |
| 10 | Brittany Lim <i>Masters Student, Experimental Medicine</i> | Cost of care associated with the treatment of fibular hemimelia in British Columbia |
| 11 | Olivia Kalau <i>Masters Student, Neuroscience</i> | Myelin heterogeneity index of the superior longitudinal fasciculus predicts cognitive decline in relapsing remitting Multiple Sclerosis |
| 12 | Razieh Sadat Banijamali <i>PhD Student, Pathology & Laboratory Medicine</i> | Mesenchymal stem cell-derived extracellular vesicles: a new strategy for delivery of oncolytic coxsackievirus B3 in breast cancer cell |
| 13 | Rishika Daswani <i>Masters Student, Pharmacology & Therapeutics</i> | Measurement of single cell and spatial multiomics within the brains of rats following fentanyl self-administration |
| 14 | Tali Romero <i>Masters Student, Pathology & Laboratory Medicine</i> | Association of neurological blood-biomarkers with baseline neuroimaging and cognitive assessments in adults with moderate-severe congenital heart disease |
| 15 | Marie Johns <i>PhD Student, Medical Genetics</i> | Leveraging tri-tissue transcriptomics to elucidate neurovascular pathophysiology in Alzheimer's Disease |



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| 16 | Irene Chen <i>Masters Student, Women+ and Children's Health Sciences (WACH)</i> | Social media as a tool to explore mental health in children living with a solid organ transplant and their families |
| 17 | Julliet Zama <i>Masters Student, Pathology & Laboratory Medicine</i> | The impact of hepatitis C virus clearance on markers of immune aging and inflammation in women living with and without HIV over time. |
| 18 | Sarah Okun <i>Masters Student, Interdisciplinary Oncology</i> | Characterizing the interactome of the MET Exon 14 oncogene in lung adenocarcinoma |
| 19 | Layan Bashi <i>Masters Student, Women+ and Children's Health Sciences (WACH)</i> | XEing the Difference!: Variability of Xenon MRI in Children with Primary Ciliary Dyskinesia |
| 20 | Breanna Nelson <i>PhD Student, Experimental Medicine</i> | Baseline Characteristics, Structural Brain Differences, and Cognitive Performance between Patients with Long-COVID and those with Normal Recovery |
| 21 | Zhihan Wang <i>Masters Student, Pathology & Laboratory Medicine</i> | Unraveling the genetic determinants of susceptibility and resistance in CVB3-induced myocarditis |
| 22 | Viorica Hrinco <i>PhD Student, Experimental Medicine</i> | Building consensus: Practical social media recommendations for dementia prevention research |
| 23 | Nicole Loewen <i>Masters Student, Women+ and Children's Health Sciences (WACH)</i> | The impact of a novel care team on the health outcomes of neonates with medical complexity: Protocol for an evaluation of a model of care |
| 24 | Fabiola Wu <i>Masters Student, Pathology & Laboratory Medicine</i> | Different metabolomic profiles in adult compared to pediatric chronic graft-versus-host disease |
| 25 | Sidney Saint <i>Masters Student, Experimental Medicine</i> | Exploring psychotic symptoms after brain injury in Vancouver's Downtown East Side |
| 26 | Tyrone Ly <i>Masters Student, Neuroscience</i> | Functional brain networks underlying working memory deficit in Schizophrenia detectable by task fMRI |
| 27 | Lisa Zhan <i>PhD Student, Interdisciplinary Oncology</i> | Unlocking the potential: TME-priming radiation strategies for improving car-t cell efficacy in solid tumour treatment |
| 28 | Venessa Thorsen <i>Masters Student, Women+ and Children's Health Sciences (WACH)</i> | Knowledge to Action: Developing a Knowledge Translation Strategy to Improve Detection and Management of Familial Hypercholesterolemia in British Columbia |
| 29 | Lucy Chi <i>Masters Student, Biochemistry & Molecular Biology</i> | Going viral: Sex heterogeneity of human astrocytes' infection response through single-cell proteomics |
| 30 | Sarah Varghese <i>Masters Student, Experimental Medicine</i> | An oncofetal chondroitin sulfate targeting Immunocytokine |



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| 31 | Julianne McLeod <i>Masters Student, Rehabilitation Sciences</i> | Disruptions in resting-state causal brain connectivity in females following subacute concussion |
| 32 | Meredith Clark <i>Masters Student, Interdisciplinary Oncology</i> | Repurposing telmisartan as an immunotherapy adjuvant: Modulating CD8+ T cell activation in the tumour |
| 33 | Dina Abbas <i>PhD Student, Experimental Medicine</i> | Decoding the impact of chronic vaping on respiratory airway through single-cell sequencing |
| 34 | Liam Byrne <i>Masters Student, Pathology & Laboratory Medicine</i> | Extracting antibiotic resistance genes from wastewater |
| 35 | Ava Momeni <i>Masters Student, Neuroscience</i> | Functional Brain Networks Underlying Recall and Imagination |
| 36 | Ainiah Raquib <i>PhD Student, Pathology & Laboratory Medicine</i> | Identification of a novel interactor of endogenous SS18- SSX through mass spectrometry-based analysis in synovial sarcoma cells |
| 37 | Jane Kim <i>Masters Student, Experimental Medicine</i> | Quality of life as an outcome of opioid use disorder treatment with methadone and opium tincture |
| 38 | Yu-Chi (Serena) Chuang <i>Masters Student, Interdisciplinary Oncology</i> | Investigating SHPRH as a Risk Factor for Lung Adenocarcinoma Initiation and Development |
| 39 | Beatrice Gonzales <i>Undergraduate Student, Biomedical Engineering</i> | Validation of an 2D interactive technological system for quantifying pediatric Kinematic Data - out-of-plane joint angle accuracy |