

The Ottawa Hospital Research Institute Research Day

Program

Nov 17-18, 2021









OHRI Research Day Program

Nov 17-18, 2021

Meeting link: https://www.uncork-it-gather.com/OHRIResearchDay/
Meeting tips: How to Gather Guide

Event hashtag: #OHResDay Please respect unpublished data by not taking screenshots or recordings during the meeting.

Wednesday, Nov 17, 2021

9:45 -11:15 AM Visit exhibitors and scavenger hunt (90 minutes)

10:00 AM Poster Session A (60 minutes)

1:15 -2:45 PM Visit exhibitors and scavenger hunt (90 minutes)

1:30 PM Poster Session B (60 minutes)

Thursday, Nov 18, 2021

8:15 AM Opening Remarks (10 minutes)

Speakers: Paul Albert, Justin Presseau, Duncan Stewart, Cameron Love, Alain Stintzi

8:29 AM Viral therapy and cancer (50 Minutes)

(Talks: 9 minutes plus 3 minutes for questions)

Moderator: Gayashan Tennakoon

Nikolas Martin (John Bell group) An oncolytic vaccinia virus encoding virus-like-particles and self-amplifying RNA replicons: Teaching new tricks to an old virus

ampinying KivA replicons. reaching new theks to an old virus

Jonathan Hodgins (Michele Ardolino group) *PD-L1 signaling boosts Warburg metabolism to enhance oncolytic virus infection*

Alvin Tieu (Duncan Stewart & Manoj Lalu groups) *Arming Vesiculovirus with SARS-CoV2 Spike Protein Creates a Murine Model of Severe COVID-19 ARDS*

Karine Tawagi (Michael Ong group) Trends Among Patients Presenting to the Emergency Department

or Admitted Following Immune Checkpoint Inhibitor Treatment

9:23 AM Refreshment Break (10 minutes)

9:33 AM

Underdiagnosis and undertreatment across the lifespan (50 Min)

(Talks: 9 minutes, 3 minutes discussion)

Moderator: Madison Foster

Therese Chan (Amy Hsu group) Assessing the association between hearing impairment and mild cognitive impairment and dementia among older adults in the Canadian Longitudinal Study on Aging

Alexa Grudzinski (Daniel McIsaac group) Comparing the predictive accuracy of frailty instruments applied to preoperative electronic health data for adult patients undergoing non-cardiac surgery: a retrospective cohort study

Chau Huynh (Shawn Aaron group) *Development and Validation of a Case-finding Questionnaire to Identify Undiagnosed Chronic Obstructive Pulmonary Disease (COPD) and Asthma*

Dilan Patel (Jeffrey Perry group) *Effectiveness of Peripheral Nerve Blocks for the Treatment of Primary Headache Disorders: A Systematic Review and Meta-Analysis*

9:33 AM

Signaling in health and disease (50 Min)

(Talks: 9 minutes plus 3 minutes discussion)

Moderator: Niko Hensel

Sponsored by STEMCELL Technologies

Location: Breakout room

Uxia Gurriaran (Michael Rudnicki group) *Identification of the Wnt Signal Peptide that directs secretion in Extracellular Vesicles*

Chanèle Cyr-Depauw (Bernard Thébaud group) Single-cell RNA sequencing analysis identifies unique transcriptome of therapeutic umbilical cord MSCs in a hyperoxic rodent model of

bronchopulmonary dysplasia

Jeff Li (Angela Crawley group) *Hedgehog signalling mediates interferon gamma expression in CD8+ T cells in HCV infection in advanced liver fibrosis*

Zeina Salloum (Xiaohui Zha group) Reducing cholesterol in macrophages activates NF-kB through mitochondria, thereby reprograming epigenome and dampening inflammatory responses

10:27 AM Refreshment Break (5 minutes)

10:33 AM Dr. J. David Grimes Lecture (35 minutes plus 10 minutes discussion)

Moderator: Marc Carrier

Sponsored by Thermo Fisher Scientific

Understanding the variation in cardiovascular risk among First Nations

communities in Canada Speaker: Sonia Anand

11:24 AM Refreshment Break (10 minutes)

11:34 AM Patient speaker (10 minutes)

Moderator: Carolyn Nessim

Sponsored by BD Life Sciences

Bryde Fresque

11:45 PM Update from OHRI Equity, Diversity and Inclusion Council (5 minutes)

Speaker: EDI Council Chairs Kednapa Thavorn, Manish Sood

11:51 AM Lunch Break (30 minutes)

Sponsored by Bio-Rad







12:21 PM Elevator Pitch Competition (60 minutes)

6 projects: 3 minutes and 1 slide. Can they show their impact?

Sponsored by CCRM (Pitches: 3 minutes each)

Moderator: Leah Labib

Judges: Rob White, Hallie Cotnam, Daniel MacMillan, Kumanan Wilson, Melanie Clement, Sujatha Kumarswami

- Emma Gerber (Benjamin Tsang group) Ovarian cancer: catching the silent killer
- Anupam Sharma (Lynn Megeney group) A magic bullet to fix the heart
- Lauren Kreps (Christina Addison group) Chemotherapy: a fatty bone to pick
- Grace Fox (Dean Fergusson & Manoj Lalu groups) Recognizing patients as partners in research
- Mawaia Elkbouli (Duncan Stewart group) "Smacules" as a promising regenerative therapy
- Sarah Larrigan (Pierre Mattar group) What a rare syndrome tells us about brain development
- 1:22 PM Refreshment Break (10 minutes)
- 1:32 PM Elevator Pitch Competition award winners announced

Leah Labib

- 1:33 PM Special message from Vera Etches
- 1:34 PM COVID-19 and cancer: emerging research in treatment and care (50 min)

(Talks: 9 minutes plus 3 minutes discussion)

Moderator: Daniel El Kodsi

Aidan Kirkham (David Allan group) *Mesenchymal stromal cells as a therapeutic intervention for COVID-19: First iteration of a living systematic review and meta-analysis*

Abigail Ross (Darine El-Chaâr group) The psychological impact of universal SARS-CoV-2 testing on obstetric patients and healthcare workers at The Ottawa Hospital

Zaid Taha (Jean-Simon Diallo group) *Nanoluciferase complementation-based bioreporter drug screen identifies SARS-CoV-2 blocking agent*

Chloe Thabet (Paul Wheatley-Price group) Medical Assistance in Dying (MAiD) in patients with Cancer

- **2:30 PM Refreshment Break** (10 minutes)
- **2:40 PM Keynote Lecture** (35 minutes plus 10 minutes discussion)

Moderator: Bernard Thébaud

Sponsored by 10x Genomics

Intersecting Pathways in the Pathogenesis of Pulmonary Arterial Hypertension

Speaker: Marlene Rabinovitch

3:30 PM Refreshment Break (5 minutes)





Affiliated with



3:35 PM Neural mechanisms of disease and

treatment (50 Minutes)

(Talks: 9 minutes plus 3 minutes discussion)

Moderator: Skyra Cheng

Terry Suk (Maxime Rousseaux group) Determining the role of TDP-43 SUMOylation in Amyotrophic

Lateral Sclerosis.

Aoife Reilly (Rashmi Kothary group) Centrally and peripherally delivered AAV9-SMN gene replacement

therapy are both efficient but target different pathomechanisms in a mouse model of SMA

Min Zhang (Paul Albert group) Treatment of Post-Stroke Depression via Optogenetic Stimulation Under Acute and Persistent Timeframes in a Mouse Model

Edward Sun (Jing Wang group) Hypothalamic neuronal projections to the subventricular zone neurogenic niche regulate neural stem/progenitor cell function through endocannabinoid signaling

4:30 PM Dr. Ronald G. Worton Researcher in Training Award Winner (10 minutes)

Sponsored by Beckman Coulter Life Sciences

Moderator: Benjamin Tsang

Speaker: Meshach Asare-Werehene

4:40 PM Closing remarks (2 minutes)

Speakers: Paul Albert, Justin Presseau

Thank you to our supporters:















Keynotes

Dr. J. David Grimes Lecture



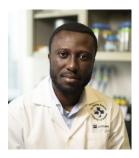
Dr. <u>Sonia Anand</u> is a professor of medicine and epidemiology at McMaster University. She is the Director of the Chanchlani Research Centre focused on Health Equity Research, and a senior scientist at the Population Health Research Institute. She holds the Canada Research Chair in Ethnic Diversity and Cardiovascular Disease and the Heart and Stroke Foundation of Ontario/Michael G. DeGroote Chair in Population Health Research. Her present research focuses upon the environmental and genetic determinants of vascular disease in populations of varying ancestral origin, and women and cardiovascular disease.

Keynote Lecture



Dr. Marlene Rabinovitch is the Dwight and Vera Dunlevie Professor of Pediatric Cardiology at Stanford University School of Medicine. She is currently the Director of the Basic Science and Engineering Initiative of the Betty Irene Moore Children's Heart Center at Stanford University, and the Associate Director in Basic Research at Stanford's Cardiovascular Institute. Her research focuses on uncovering fundamental genetic, metabolic, and inflammatory mechanisms causing pulmonary hypertension that can be translated to the clinic.

Worton Award Winner Presentation



Dr. Meshach Asare-Werehene received the 2021 Worton Researcher in Training Award in recognition of his cutting-edge discoveries and extraordinary leadership. During his PhD, Dr. Asare-Werehene made an important discovery that could improve both the detection and treatment of ovarian cancer. He found that chemoresistant ovarian cancer cells produce large amounts of a protein called plasma gelsolin, which prevents cancer-killing immune cells from doing their job. In addition, plasma gelsolin was better at detecting early-stage ovarian cancer than the commonly used cancer antigen 125.

Patient Guest Speaker



Bryde Fresque needed a skilled team and a complex surgery to come up with a diagnosis of pheochromocytoma— a rare tumour that left his future uncertain. He's thankful for the skilled team of experts at The Ottawa Hospital that saved his life. While his recovery took time, he's back to living his active life and truly grateful for the care he received. Bryde is seven years post surgery, and cancer free, with no signs of recurrence.

Poster Presentations

P-1 A positive allosteric modulator of M1 Acetylcholine receptors improves pathology and cognitive deficits in female APPswe/PSEN1?E9 mice

Khaled Abdelrahman

Supervisor: Ferguson, Stephen

P-2 Are Sequential Compression Devices Routinely Necessary Following Enhanced Recovery After Thoracic Surgery?

Sami Aftab Abdul

Supervisor: Maziak, Donna

P-3 Loss of SOX10 enriches for the cancer stem cell niche in melanoma

John Abou-Hamad Supervisor: Sabourin, Luc

P-4 The Eastern Ontario COVID-19 Community Mental Health Cohort Study: A 6 month analysis of depression and substance use

Chloe Ahluwalia

Supervisor: Hatcher, Simon

P-5 Clinicopathological features of pulmonary mucinous adenocarcinoma: A descriptive analysis

Deborah Akurang

Supervisor: Wheatley-Price, Paul

P-6 Can oncoplastic breast surgery impact radiotherapy treatment planning?

Ghada Aldosary

Supervisor: Vandervoort, Eric

P-7 Impact of vanadium-enhanced oncolytic virus immunotherapy on the anti-tumor immune response

Nouf Alluqmani

Supervisor: Diallo, Jean-Simon

P-8 DMF improves Oncolytic HSV-1 in Cancer

Akram Alwithenani

Supervisor: Diallo, Jean-Simon

P-9 Evaluating the synergistic effect of MG1 infection and SMAC mimetic treatment on latently HIV-infected cells

Yasmeen Ameeriar

Supervisor: Angel, Jonathan

P-10 An investigation into the differential expression of NMDA receptor subunits in the spinal dorsal horn across development, sex, and species

Jennifer Armstrong

Supervisor: Hildebrand, Michael

P-11 Detection of ovarian cancer chemoresistance using a novel switch sensor and artificial intelligence

Meshach Asare-Werehene Supervisor: Tsang, Benjamin

P-12 Innate lymphoid cell frequencies in the murine female reproductive system decrease post-ovulation

Sara Asif

Supervisor: Ardolino, Michele and Vanderhyden, Barbara

P-13 Salivary Gland Carcinoma Management and Outcomes in Northeastern Ontario – A Population Based Study

Samy Asraoui

Supervisor: El-Sayed, Samy

P-14 The use of transthoracic echocardiograms in hospitalized adult patients with acute pulmonary embolism

Bita Azad

Supervisor: Siegal, Deborah

P-15 Nanoluciferase complementation-based bioreporter reveals the importance of N-linked glycosylation of SARS-CoV-2 S for viral entry

Taha Azad

Supervisor: Bell, John

P-16 Barriers and facilitators to frailty-focused exercise prehabilitation before cancer surgery

Keely Barnes

Supervisor: McIsaac, Daniel

P-17 Does the Time of Day at Which Endocrine Therapy Is Taken Affect Breast Cancer Patient Outcomes?

Ana Beltran-Bless

Supervisor: Clemons, Mark

P-18 Targeting the GPR84 receptor to prevent AKI

Amélie Blais

Supervisor: Kennedy, Christopher

P-19 Assessment of vascularization and neurogenesis in an iPSC-derived 16p11.2 deletion organoid model.

Nicole Blakeley

Supervisor: Lacoste, Baptiste

P-20 Newborn sample collection and analysis from international low-resource settings: process evaluation and potential for broader screening initiatives using dried blood spots

Brianne Bota

Supervisor: Wilson, Kumanan

P-21 Time to update evidence-based guideline recommendations about concurrent tamoxifen and antidepressant use? A systematic review

Michelle Bradbury

Supervisor: Clemons, Mark

P-22 Cellular and molecular features of TSC2 null neural crest cells demonstrate characteristics of pulmonary lymphangioleiomyomatosis

Alberto Camacho

Supervisor: Stanford, William

P-23 Establishing an Objective Cardiac Risk Stratification Criteria Based on Patient History

Zhuo Qian Cao

Supervisor: Thiruganasambandamoorthy, Venkatesh

P-24 The Use of Intravenous Albumin During Kidney Replacement Therapy: A Survey of Nephrologists and Intensivists

Ryan Chan

Supervisor: Clark, Edward

P-25 BAR-1/ß-catenin and PRY-1/Axin show asymmetric and complementary expression in neuroblasts during C. elegans ventral nerve cord assembly

Wesley Chan

Supervisor: Colavita, Antonio

P-26 Identifying Effect Modifiers of CAR-T Cell Therapeutic Efficacy: A Systematic Review and Individual Participant Data Meta-Analysis

Nikesh Chander

Supervisor: Fergusson, Dean &Lalu, Manoj

P-27 Suppression of necroptotic cell death ameliorates the SMA phenotype in Smn2B/- mice

Loucia Chehade

Supervisor: Kothary, Rashmi

P-28 Cardiovascular risk health factors and disease among Canadian immigrants

Kitty Chen

Supervisor: Manuel, Douglas

P-29 Assessment of Visual Function in a Snf2h Knockout Mouse Model of Retinal Degeneration

Skyra Cheng

Supervisor: Tsilfidis, Catherine

P-30 Cisplatin versus Carboplatin Doublet Therapy in Extensive-Stage Small Cell Lung Cancer: Real-world Outcomes at The Ottawa Hospital

Deepro Chowdhury

Supervisor: Wheatley-Price, Paul

P-31 Biodistribution of mesenchymal stromal cell-derived extracellular vesicles during acute respiratory distress syndrome

Damian Chwastek Supervisor: Lalu, Manoj

P-32 Characterizing transcriptomic changes during the development of pulmonary arterial hypertension using single cell RNA sequencing

Nicholas Cober

Supervisor: Stewart, Duncan

P-33 A Descriptive Analysis of Stop the Spread Ottawa: Antibody Neutralization Efficiency and Cellular Immunity to SARS-CoV-2-Positive Individuals Identified in a Surveillance and Convalescence Survey of At-Risk Individuals

Erin Collins/Rivard

Supervisor: Cooper, Curtis

P-34 Enhancing oncolytic vesicular stomatitis virus immunotherapy and viral replication with novel microRNA technology

Supervisor: Bell, John

P-35 Derivation and external validation of a scoring system for the diagnosis of overlap syndromes

Mohammad Alameen Damer Supervisor: Cheung, Angela

P-36 Evaluation of the impact of integrated care and self-management after Deep Brain Stimulation in Parkinson's disease.

Deepa Dash

Supervisor: Mestre, Tiago

P-37 Mapping the Planar Cell Polarity Pathway in Muscle Stem Cells

David Datzkiw

Supervisor: Rudnicki, Michael

P-38 Arming oncolytic viruses with virus like particles for improved cancer therapy

Jaahnavi Dave Supervisor: Bell, John

P-39 The Characterization of SLK Kinase-Dead Mouse Embryonic Fibroblasts

Samuel Delisle

Supervisor: Sabourin, Luc

P-40 SMN depletion has a differential effect on expression of IGF1, UBA1, and Trp53 in the CNS and peripheral tissues of a mouse model of Spinal Muscular Atrophy.

Morgan Donoghue

Supervisor: Kothary, Rashmi

P-42 Optimization of Isolation and Collection Methods to Enhance the Potency of Small Extracellular Vesicles derived from Mesenchymal Stromal Cells for Treatment of Cardiovascular Diseases

Mawaia Elkbouli

Supervisor: Stewart, Duncan

P-43 Examining fetal and post-natal muscle stem cell lineage specification in the healthy and dystrophindeficient mouse

Marie Esper

Supervisor: Rudnicki, Michael

P-44 Molecular regulation of fate decision in Sox9 skeletal stem cells

Stephanie Farhat

Supervisor: Coutu, Daniel

P-45 The current landscape of systemic therapy for recurrent glioblastoma: A systematic review of randomized-controlled trials

Francesco Fazzari Supervisor: Ng, Terry

P-46 Determining the endogenous distribution, topography, and cells-of-origin of a-synuclein in relation to Parkinson's Disease

Zoe Fisk

Supervisor: Rousseaux, Maxime

P-47 Assessing researcher and patient partner perspectives on patient engagement in preclinical laboratory research: An interview study

Madison Foster

Supervisor: Lalu, Manoj

P-48 Exploring the IMPACT of patient engagement on health research in Ontario

Grace Fox

Supervisor: Fergusson, Dean

P-49 Absence of FGL2 slows tumour growth by promoting infiltration of activated anti-tumour immune cells

Kristianne Galpin

Supervisor: Vanderhyden, Barbara

P-50 Investigating the Role of Sox10 in HER2-positive Breast Cancer

Brennan Garland

Supervisor: Sabourin, Luc

P-51 Constitutive nuclear accumulation of alpha-synuclein leads to motor dysfunction, cortical atrophy, and shortened lifespan in mice

Haley Geertsma

Supervisor: Rousseaux, Maxime

P-52 Exploring the use of exosomal plasma gelsolin as a biomarker for the early diagnosis of ovarian cancer

Emma Gerber

Supervisor: Tsang, Benjamin

P-53 DESIGNING AND EVALUATION OF A HIP DISARTICULATION PROSTHESIS SIMULATOR

Hossein Gholizadeh

Supervisor: Lemaire, Edward

P-54 Expectation of benefit and perceived benefit by study participants in NILO-PD: a Randomized, Double-Blind, Placebo-Controlled, Phase Ila trial of Nilotinib in Parkinson's Disease (PD)

Ryan Gotfrit

Supervisor: Mestre, Tiago

P-55 Evaluation of Novel TG2 Inhibitor Therapy in Preclinical Models of Ovarian Cancer

Melanie Grondin

Supervisor: Vanderhyden, Barbara

P-56 Solving Wellness: An Initiative to Enhance Canadian Healthcare Provider Wellness

Julia Hajjar

Supervisor: Kyeremanteng, Kwadwo

P-57 Single cell transcriptional and chromatin accessibility profiling of satellite cells lacking MyoD

Bahareh Hekmatnejad

Supervisor: Rudnicki, Michael

P-58 Impairment of the neurotrophic signaling hub B-Raf contributes to motoneuron degeneration in spinal muscular atrophy

Niko Hensel

Supervisor: Kothary, Rashmi

P-59 Postoperative transitions in care for older adults: a scoping review

Emily Hladkowicz

Supervisor: Miller, Jordan; McIsaac, Daniel

P-60 Nox5 Expression Increases Extracellular Vesicle Formation and Oxidative Stress in Mice

Chet Holterman

Supervisor: Kennedy, Christopher

P-62 Evaluating the Role of Transglutaminase 2 in Ovarian Cancer Epithelial-to-Mesenchymal Transition

Dalia Ibrahim

Supervisor: Vanderhyden, Barbara

P-63 When and how to replicate systematic reviews: a systematic review

Obi Ikeonu

Supervisor: Petkovic, Jennifer

P-64 Factors associated with screening mammography participation in Canadian women: a population-based cohort study

Nayaar Islam

Supervisor: McInnes, Matthew

P-66 Human Adenovirus Requires Histone Methyltransferase SUV39H1 for Optimal Virus Replication

Morgan Jennings

Supervisor: Parks, Robin

P-67 Cross-platform Development for a Walk Test Application

Xiaoxi Jia

Supervisor: Lemaire, Edward

P-68 A Systematic Review of Percutaneous Ascending Aortic Pseudoaneurysm Repair

Joanne Joseph

Supervisor: Hibbert, Benjamin

P-69 Lower limb amputee fall risk classification using automated foot strike detection from smartphone sensor signals during a 6MWT.

Pascale Juneau

Supervisor: Lemaire, Edward

P-70 Evaluating the impact of peer review on the quality of reporting in imaging diagnostic test accuracy research: a cross-sectional study

Sakib Kazi

Supervisor: McInnes, Matthew

P-71 Characterizing the role of Mixed Lineage Leukemia Partial Tandem Duplication leading and maintaining leukemogenesis in Acute Myeloid Leukemia

Audrey Kopp

Supervisor: Brand, Marjorie

P-72 Patterns of Bone Marrow Adipogenesis in Response to Chemotherapy

Lauren Kreps

Supervisor: Addison, Christina

P-73 Neutrophil extracellular traps in endothelial cell health and function

Chloé Landry

Supervisor: Burger, Dylan

P-74 mTORC1 signalling contributes to dysfunctional interferon-gamma production in M1 macrophages during HCV-mediated liver disease

David Lawton

Supervisor: Crawley, Angela

P-75 Potential use of 17BIPHE2 as a vaginal contraceptive/microbicide

Seunggee Lee

Supervisor: Tanphaichitr, Nongnuj

P-76 Investigating the subcellular localization of parkin in human Substantia nigra

Nathalie Lengacher

Supervisor: Schlossmacher, Michael

P-77 Early low-dose exposure of methylmercury promotes premature neuronal differentiation in embryo and impairs postnatal cortical development

Joseph Wai-Hin Leung Supervisor: Wang, Jing

P-78 Evaluation of the PREDIGT Score in Identifying Newly Diagnosed Parkinson's Patients Without a Neurological Examination in the DeNoPa and PPMI Cohorts

Juan Li

Supervisor: Schlossmacher, Michael

P-79 Single cell analyses identify a novel muscle stem cell subpopulation

Alex Lin

Supervisor: Rudnicki, Michael

P-80 Low-dose methylmercury promotes prenatal differentiation of mouse cortical precursors by stimulating CREB activation

Allison Loan

Supervisor: Wang, Jing

P-81 Compound C and JZL184-combination treatment promotes ischemia-activated pericyte reprogramming and differentiation

Margarita Lui

Supervisor: Wang, Jing

P-82 Examining the role of LRRK2 in immune modulation of brain health

Michaela Lunn

Supervisor: Schlossmacher, Michael

P-84 Modulating healthy and DMD patient-derived satellite-like cell division with WNT7A and epidermal growth factor

Maria Madana

Supervisor: Rudnicki, Michael

P-85 Critical Care in the Obstetrical Population: A six-year, single-centre review on demographics, and outcomes.

Rebecca Manion

Supervisor: El-Chaar, Darine

P-86 The DNA methylation in the regulation of plasma gelsolin expression in ovarian cancer chemoresistance

Hafiza Bushra Manzoor Supervisor: Tsang, Benjamin

P-87 The inhibitory receptor LAG3 marks a subset of exhausted Natural Killer Cells

Marie Marotel

Supervisor: Ardolino, Michele

P-88 How Developing Mouse Oocytes and Preimplantation Embryos Regulate Intracellular Betaine

Emily McIntosh Supervisor: Baltz, Jay

P-89 Inhibition of miR-145-5p with an Antisense Oligonucleotide Improves Severity of Experimental Autoimmune Encephalomyelitis

Kelsea McKay

Supervisor: Kothary, Rashmi

P-90 Evaluating the risk of dementia based on adherence to antihypertensive medications in seniors with newly diagnosed hypertension.

Alixe Menard

Supervisor: Hsu, Amy

P-91 Epigenetic dysregulation as a mechanism to explain postoperative natural killer cell dysfunction

Henna Mistry

Supervisor: Auer, Rebecca

P-92 A scoping review of global vaccine certificate solutions for COVID-19

Salima Mithani

Supervisor: Wilson, Kumanan

P-93 Treatment of relapsed small cell lung cancer in the real-world: a comparison of platinum-etoposide rechallenge and cyclophosphamide-doxorubicin-vincristine (CAV) chemotherapy

Sara Moore

Supervisor: Wheatley-Price, Paul

P-94 Podocyte extracellular vesicles are increased in pediatric nephrotic syndrome during nephrotic range proteinuria

Robert Myette

Supervisor: Burger, Dylan

P-95 Higher-order chromatin organization in Progeria vascular smooth muscle cells

Mzwanele Ngubo

Supervisor: Stanford, William

P-96 Assessing the Clinical Relevance of TDP-43 SUMOylation in Amyotrophic Lateral Sclerosis

Trina Nguyen

Supervisor: Rousseaux, Maxime

P-97 IPPK-1 Limits Multicellular Rosette Formation During Convergent Extension in C. elegans Ventral Nerve Cord.

Nathaniel Noblett

Supervisor: Colavita, Antonio

P-98 Investigating the mechanism of postoperative CD8+ T cell dysfunction

Oladunni Olanubi

Supervisor: Auer, Rebecca

P-99 The role of pGSN for NK cell Function in Ovarian Cancer Chemoresistance

Toshimichi Onuma

Supervisor:

P-100 Mechanisms of Cell Volume Regulation in Mouse Oocytes and Preimplantation Embryos

Chyna Ortman

Supervisor: Baltz, Jay

P-101 Metabolic defects in brain endothelial cells from 16p11.2 deletion autism mice

Julie Ouellette

Supervisor: Lacoste, Baptiste

P-102 Investigation of cannabinoid CB1 receptor expression in spinal pain processing networks across sex and species

Jessica Parnell

Supervisor: Hildebrand, Michael

P-104 Protocol for the development of guidance for stakeholder engagement in health and healthcare guideline development and implementation

Janina Ramos

Supervisor: Petkovic, Jennifer

P-105 Extracellular vesicles as a novel biotherapeutic for spinal muscular atrophy.

Charlotte René

Supervisor: Parks, Robin

P-106 Carcinoma of the Nasopharynx: A Population-Based Study of the Ottawa Experience

Nick Sahlollbey

Supervisor: El-Sayed, Samy

P-107 Survival of TLX1-Positive T-Cell Acute Lymphoblastic Leukemia is mediated through SWI/SNF

Rama Sarakbi

Supervisor: Brand, Marjorie

P-108 Characterizing the relationship between NK cell function and metabolism in the postoperative period

Marlena Scaffidi

Supervisor: Auer, Rebecca

P-109 Which primary care physicians deliver home visits to their dying patients in Ontario? A retrospective cohort study.

Mary Scott

Supervisor: Tanuseputro, Peter

P-110 The Delivery of Patient Care via the Support Line – Nursing Perspective (REaCT-Support Line Nursing Survey)

Hely Shah

Supervisor: Mcgee, Sharon

P-111 Identifying factors associated with biomedical researchers' adherence to methods to reduce bias in preclinical lab-based studies

Ayni Sharif

Supervisor: Lalu, Manoj

P-112 Small molecule screening for the identification of modifiers favoring beneficial cardiac hypertrophy.

Anupam Sharma

Supervisor: Megeney, Lynn

P-113 Time to press play on stem cell research in the neonatal intensive care unit (NICU): Developing and evaluating video-based educational support for parents considering enrolling their child in a trial of mesenchymal stromal cells for Bronchopulmonary Dysplasia

Kiran Singh

Supervisor: Thebaud, Bernard

P-114 Thyroid Dysfunction After Autologous Hematopoietic Stem Cell Transplant for Autoimmune Indications

Chloe Smith

Supervisor:

P-115 Sepsis-like environment exerts multifaceted influences on innate immune modulation by mesenchymal stem cells

Yuan Tan

Supervisor: Stewart, Duncan

P-116 Inhibiting PI3K? in Myeloid Derived Suppressor Cells as a Therapeutic to Restore Natural Killer Cell Function and Reduce Metastases Following Surgery.

Gayashan Tennakoon Supervisor: Auer, Rebecca

P-117 Cellular and molecular characterization of Tbx18+ joint stem/progenitor cells

Bahaeddine Tilouche Supervisor: Coutu, Daniel

P-118 Effect of novel soluble ACE2-Fc variants on blood pressure and albuminuria in mice with angiotensin Ilinduced hypertension

Mayra Trentin Sonoda Supervisor: Burns, Kevin

P-119 Glycine transporter GLYT1 is regulated by active suppression in mouse cumulus-oocyte complexes and is required for early embryo survival under osmotic stress in vitro

Allison Tscherner Supervisor: Baltz, Jay

P-120 Management Strategies in Persons with Inherited Hemophilia Requiring Antithrombotic Therapy: A Scoping Review

Kelsey Uminski

Supervisor: Khalife, Roy

P-121 Exploring the role of alpha-synuclein in transcriptional modulation

Nicholas Valentino

Supervisor: Rousseaux, Maxime

P-122 Facilitating and supporting the engagement of patients, families and caregivers in research: The Ottawa Hospital model

Shelley Vanderhout

Supervisor: Fergusson, Dean

P-123 Circulating Extracellular Vesicles in Patients with Cancer and Venous Thromboembolism

Ozgun Varol

Supervisor: Burger, Dylan

P-124 Enhancing COVID Rehabilitation with Technology (ECORT): Protocol for an open-label, single site randomized controlled trial evaluating the effectiveness of electronic case management for individuals with persistent COVID-19 symptoms.

Brooklyn Ward

Supervisor: Hatcher, Simon

P-125 Dependency of EGFR activation in Vanadium-based Sensitization to Oncolytic Virotherapy

Boaz Wong

Supervisor: Diallo, Jean-Simon &Nessim, Carolyn

P-126 A comparison of isolation methods for the analysis of extracellular vesicles in cerebrospinal fluid using nanoscale flow cytometry

Fengxia Xiao

Supervisor: Burger, Dylan

P-127 Investigating the role of Sox6 and Sox7 in melanoma progression and drug resistance

Hong Meng Yew

Supervisor: Sabourin, Luc

P-128 Treatment of Splanchnic Vein Thrombosis with Anticoagulant Therapy in Adult Cancer Patients: A Systematic Review and Meta-analysis

Amin Zahrai

Supervisor: Carrier, Marc

P-129 Airway recommendations for perioperative patients during the COVID-19 pandemic: a scoping review

MengQi Zhang

Supervisor: Lalu, Manoj

P-130 Defining the living donor transplant evaluation process for optimization of a one-day evaluation program

Ariana Noel

Supervisor: Ann Bugeja

P-131 The BEACON Study: Preliminary results from a pilot randomized controlled trial to evaluate problem solving therapy in men who self-harm.

Maria Peddle Supervisor: Hatcher, Simon

























































The Ottawa Hospital Research Institute would like to express its appreciation to members of the Research Day Committee for their dedication and hard work in organizing this event, and to the volunteers, whose assistance we could not do without.

Dr. Paul Albert (Co-chair)
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