# 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
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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 $\quad \begin{aligned} & \text { Opening Remarks (10 minutes) } \\ & \text { Speakers: Paul Albert, Justin Presseau, Duncan Stewart, Cameron Love, Alain Stintzi }\end{aligned}$

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 selfamplifying RNA replicons: Teaching new tricks 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 Mclsaac 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 CarrierSponsored by Thermo Fisher ScientificUnderstanding the variation in cardiovascular risk among First Nationscommunities in CanadaSpeaker: 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) <br> 6 projects: 3 minutes and 1 slide. Can they show their impact? <br> Sponsored by CCRM <br> (Pitches: 3 minutes each) <br> Moderator: Leah Labib |
| :--- | :--- |
| Judges: Rob White, Hallie Cotnam, Daniel MacMillan, Kumanan Wilson, Melanie Clement, Sujatha |  |
| Kumarswami |  |

3:35 PM Neural mechanisms of disease and

treatment (50 Minutes)<br>(Talks: 9 minutes plus 3 minutes discussion)<br>Moderator: Skyra Cheng<br>Terry Suk (Maxime Rousseaux group) Determining the role of TDP-43 SUMOylation in Amyotrophic Lateral Sclerosis.<br>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<br>Min Zhang (Paul Albert group) Treatment of Post-Stroke Depression via Optogenetic Stimulation Under Acute and Persistent Timeframes in a Mouse Model<br>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 <br> Moderator: Benjamin Tsang <br> Speaker: Meshach Asare-Werehene

4:40 PM Closing remarks (2 minutes)
Speakers: Paul Albert, Justin Presseau

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## Keynotes

Dr. J. David Grimes Lecture



Dr. Sonia Anand 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.

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
-13

Barriers and facilitators to frailty-focused exercise prehabilitation before cancer surgery
Keely Barnes
Supervisor: Mclsaac, 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

Establishing an Objective Cardiac Risk Stratification Criteria Based on Patient History

Zhuo Qian Cao
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

|  | Mathieu Crupi 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 <br> Supervisor: Mestre, Tiago |
| P-37 | Mapping the Planar Cell Polarity Pathway in Muscle Stem Cells |
|  | David Datzkiw <br> Supervisor: Rudnicki, Michael |
| P-38 | Arming oncolytic viruses with virus like particles for improved cancer therapy |
|  | Jaahnavi Dave <br> Supervisor: Bell, John |
| P-39 | The Characterization of SLK Kinase-Dead Mouse Embryonic Fibroblasts |
|  | Samuel Delisle <br> 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 <br> 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 <br> Supervisor: Rudnicki, Michael |
| P-44 | Molecular regulation of fate decision in Sox9 skeletal stem cells |
|  | Stephanie Farhat <br> 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 |


| P-47 | Assessing researcher and patient partner perspectives on patient engagement in preclinical laboratory research: An interview study |
| :---: | :---: |
|  | Madison Foster <br> Supervisor: Lalu, Manoj |
| P-48 | Exploring the IMPACT of patient engagement on health research in Ontario |
|  | Grace Fox <br> Supervisor: Fergusson, Dean |
| P-49 | Absence of FGL2 slows tumour growth by promoting infiltration of activated anti-tumour immune cells |
|  | Kristianne Galpin <br> Supervisor: Vanderhyden, Barbara |
| P-50 | Investigating the Role of Sox10 in HER2-positive Breast Cancer |
|  | Brennan Garland <br> Supervisor: Sabourin, Luc |
| P-51 | Constitutive nuclear accumulation of alpha-synuclein leads to motor dysfunction, cortical atrophy, and shortened lifespan in mice |
|  | Haley Geertsma <br> Supervisor: Rousseaux, Maxime |
| P-52 | Exploring the use of exosomal plasma gelsolin as a biomarker for the early diagnosis of ovarian cancer |
|  | Emma Gerber <br> 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, DoubleBlind, Placebo-Controlled, Phase Ila trial of Nilotinib in Parkinson's Disease (PD) |
|  | Ryan Gotfrit <br> 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 <br> Supervisor: Kyeremanteng, Kwadwo |
| P-57 | Single cell transcriptional and chromatin accessibility profiling of satellite cells lacking MyoD |
|  | Bahareh Hekmatnejad <br> Supervisor: Rudnicki, Michael |
| P-58 | Impairment of the neurotrophic signaling hub B-Raf contributes to motoneuron degeneration in spinal muscular atrophy |

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            Niko Hensel
            Supervisor: Kothary, Rashmi
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Postoperative transitions in care for older adults: a scoping review
Emily Hladkowicz
Supervisor: Miller, Jordan; Mclsaac, Daniel
Nox5 Expression Increases Extracellular Vesicle Formation and Oxidative Stress in Mice
Chet Holterman
Supervisor: Kennedy, Christopher
Evaluating the Role of Transglutaminase 2 in Ovarian Cancer Epithelial-to-Mesenchymal Transition
Dalia Ibrahim
Supervisor: Vanderhyden, Barbara
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
Human Adenovirus Requires Histone Methyltransferase SUV39H1 for Optimal Virus Replication
Morgan Jennings
Supervisor: Parks, Robin
Cross-platform Development for a Walk Test Application
Xiaoxi Jia
Supervisor: Lemaire, Edward
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## A Systematic Review of Percutaneous Ascending Aortic Pseudoaneurysm Repair <br> Joanne Joseph <br> Supervisor: Hibbert, Benjamin

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Lower limb amputee fall risk classification using automated foot strike detection from smartphone sensor signals during a 6MWT.
Pascale Juneau
Supervisor: Lemaire, Edward
-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
Characterizing the role of Mixed Lineage Leukemia Partial Tandem Duplication leading and maintaining leukemogenesis in Acute Myeloid Leukemia
Audrey Kopp
Supervisor: Brand, Marjorie
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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

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-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 <br> 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 <br> 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 <br> Supervisor: Thebaud, Bernard |
| P-114 | Thyroid Dysfunction After Autologous Hematopoietic Stem Cell Transplant for Autoimmune Indications |
|  | Chloe Smith <br> Supervisor: |
| P-115 | Sepsis-like environment exerts multifaceted influences on innate immune modulation by mesenchymal stem cells |
|  | Yuan Tan <br> 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 <br> Supervisor: Coutu, Daniel |
| P-118 | Effect of novel soluble ACE2-Fc variants on blood pressure and albuminuria in mice with angiotensin IIinduced 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 <br> 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 <br> 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 <br> Supervisor: Hatcher, Simon |
| P-125 | Dependency of EGFR activation in Vanadium-based Sensitization to Oncolytic Virotherapy |
|  | Boaz Wong <br> 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 <br> Supervisor: Burger, Dylan |
| P-127 | Investigating the role of Sox6 and Sox7 in melanoma progression and drug resistance |
|  | Hong Meng Yew <br> 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 <br> Supervisor: Carrier, Marc |
| P-129 | Airway recommendations for perioperative patients during the COVID-19 pandemic: a scoping review |
|  | MengQi Zhang <br> Supervisor: Lalu, Manoj |
| P-130 | Defining the living donor transplant evaluation process for optimization of a one-day evaluation program |
|  | Ariana Noel <br> 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


## Research Day Committee and Volunteers

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)
Dr. Justin Presseau (Co-chair)
Dr. Jay Baltz
Amelia Buchanan
Dr. Angela Crawley
Chanèle Cyr Depauw
Jaahnavi Dave
Jenn Ganton
Milad Hamwi
Leah Labib
Dr. Ian Lorimer

Dr. Tim Ramsay
Dr. Luc Sabourin
Dr. Duncan Stewart
Jennifer Valentino
Nicol Lum
Sarah Schlievert
Alison Cudmore
Chris Page
Colleen Ford
Vinay Dandawati

