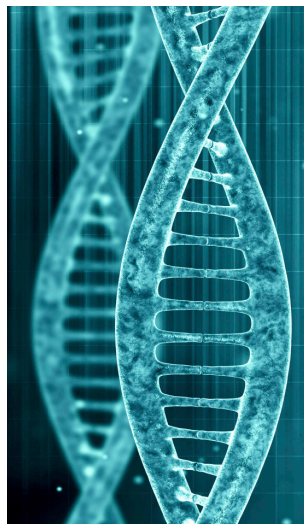




UNIVERSITY OF OTTAWA
HEART INSTITUTE
INSTITUT DE CARDIOLOGIE
DE L'UNIVERSITÉ D'OTTAWA



33rd ANNUAL

Ottawa Cardiovascular Research Day

PROGRAM

May 10, 2021 | University of Ottawa Heart Institute

**The Ottawa Cardiovascular Research Day
Committee gratefully acknowledges the
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Welcome

On behalf of the planning committee, it is with great pleasure that we welcome you to the 33rd Annual Ottawa Cardiovascular Research Day. This event is open to all cardiovascular research trainees in the Ottawa region, and is designed to give trainees an opportunity to showcase their outstanding projects and network with scientists and peers.

We are excited to share the following program highlights:

- Keynote lecture by Professor Peter Macdonald, an international leader in cardiothoracic transplantation, donor organ preservation and donation after circulatory death.
- Ottawa Region's Cardiovascular Trainee of the Year Lecture presented by Dr. Adil Rasheed, Postdoctoral Fellow, UOHI.
- The Innovation Award Competition is open to all event attendees. This award recognizes innovative ideas and trainees' ability to effectively communicate to a lay audience. Attend to hear your colleagues pitch their work to a panel of judges!

With 12 abstract talks and 48 posters, we are confident the Ottawa Cardiovascular Research Day is a great venue to network with colleagues and learn more about the work being done in the Ottawa region. The day will conclude with a networking session, and an awards ceremony to recognize the best oral presentations and posters.

We would like to thank our speakers, presenters, judges, session chairs, and organizers for making this event possible. We would also like to extend our gratitude to all sponsors for their generous support: the Polk Family Foundation, UOHI Trainee Committee, Gold Level Sponsor: Pfizer and Bronze Level Sponsor: Akcea Therapeutics.

Sincerely,



Sharon Chih, MBBS, FRACP, PhD
Chair, Research Day Committee



Erin Mulvihill, PhD
Co-Chair, Research Day Committee

Planning Committee

Sharon Chih, MBBS, FRACP, PhD

Chair, Research Day

Advanced Heart Failure &
Transplantation Cardiologist, UOHI |

Medical Director, Mechanical Circulatory
Support Program, UOHI | Assistant
Professor, Department of Medicine,
University of Ottawa

Erin Mulvihill, PhD

Co-Chair, Research Day

Scientist and Director, Energy Substrate
Metabolism Research Laboratory, UOHI |

Assistant Professor, Department of
Biology, Microbiology and Immunology,
Faculty of Medicine
University of Ottawa

Kelsey Bolger

Organizer, Research Day

Research Administrative Officer |
Research Services, UOHI

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PhD Candidate, UOHI

Chair, UOHI Trainee Committee

Sabrina Robichaud

PhD Candidate, UOHI

Co-Chair, UOHI Trainee Committee

Ariel Buchler

MSc Candidate, UOHI

Social Coordinator, UOHI Trainee
Committee

Braeden Mair

MSc Candidate, UOHI

Social Coordinator, UOHI Trainee
Committee



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Program Overview

7:15 – 7:30	Log in and get familiar with GatherTown platform
7:30 – 7:45	<p>Opening Remarks Sharon Chih, MBBS, FRACP, PhD Chair, Research Day Committee, UOHI</p> <p>Chief Scientific Officer Address Peter Liu, MD, FRCPC Chief Scientific Office & VP Research UOHI</p> <p>Welcome Address Thierry Mesana, MD, PhD, FRCSC CEO & President, UOHI</p>
7:45 – 8:45	<p>KEYNOTE LECTURE</p> <p>Professor Peter Macdonald, MD, PhD</p> <p><i>Heart Transplantation from DCD Donors: Expanding the Donor Pool</i></p> <p>Moderator: Sharon Chih, MBBS, FRACP, PhD</p>
8:45 – 9:00	Offline Health Break
9:00 – 10:00	Poster Session 1
10:00 – 10:45	<p>Oral Presentation Session #1</p> <p>Linkage to ORACLE Theme: Big Data / AI Moderators: Ariel Buchler, MSc Candidate Braeden Mair, MSc Candidate</p>
	<p>O-1 Delineating the Function of the Iroquois Homeobox Transcription Factor Irx1 in the Atrioventricular Conduction System Saif Dababneh, BSc Candidate, UOHI Supervisor: Kyoung-Han Kim, PhD</p> <p>O-2 Using a Weak Labeling NLP Pipeline for PET Perfusion Imaging Metadata Extraction from Clinical Reports Chad Hunter, PhD, Postdoctoral Fellow, UOHI Supervisor: Robert deKemp, PhD</p> <p>O-3 Deep Learning Methods to Detect and Identify Cardiac Implantable Electronic Devices in a Large Multi-Institution Dataset of Chest Radiographs Pascal Thériault-Lauzier, MD, Cardiology Resident, UOHI Supervisor: David Birnie, MD</p>

10:45 – 11:30	Oral Presentation Session #2 Linkage to ORACLE Theme: Precision Medicine Moderators: Ariel Buchler, MSc Candidate Braeden Mair, MSc Candidate
	<p>O-4 Effect of Duration of Rhythm Monitoring on Reported Arrhythmia Recurrence after Catheter Ablation for Atrial Fibrillation: A Systematic Review and Meta-Analysis (The MONITOR-AF Cohort) Rudy Unni, MD, Cardiology Resident, UOHI Supervisor: Girish Nair, MD</p> <p>O-5 Plasminogen Activator Inhibitor-1 Platelet-Derived Extracellular Vesicles Predicts Major Adverse Cardiac Events and Promotes the Pro-Inflammatory Smooth Muscle Cell Phenotype Richard Jung, MD/PhD Candidate, UOHI Supervisor: Benjamin Hibbert, MD, PhD</p> <p>O-6 The ARCH (Arch Reconstruction under Circulatory arrest with Hypothermia) Score: Development and internal validation of a risk score for patients undergoing aortic arch surgery Ming Hao Guo, MD, Cardiac Surgery Resident, UOHI Supervisor: Munir Boodhwani, MD</p>
11:30 – 12:00	Lunch - Offline
12:00 – 12:45	Innovation Award Competition Pitches Moderator: Katey Rayner, PhD
	<p>I-1 Shedding Light on the 'Genetic Players' behind Lipophagy Garrett Fairman, PhD Candidate, UOHI Supervisor: Mireille Ouimet, PhD</p> <p>I-2 Mending a Broken Heart on the Spot- with spray nanoparticles Marcelo Muñoz, PhD, Postdoctoral Fellow, UOHI Supervisor: Emilio Alarcón, PhD</p> <p>I-3 A Gut Feeling about Glucagon-like Peptide-1: Controlling Dietary Fat Entry to Protect the Heart Nadya Morrow, PhD Candidate, UOHI Supervisor: Erin Mulvihill, PhD</p> <p>I-4 Identifying New Pathways Protective Against Heart Disease Lara Gharibeh, PhD, Translational Research Fellow, UOHI Supervisors: Juan Grau, MD & Mireille Ouimet, PhD</p>

12:45 – 13:15	Ottawa Cardiovascular Research Trainee of the Year Lecture Adil Rasheed, PhD, Postdoctoral Fellow, UOHI Moderator: Peter Liu, MD
13:15 – 13:30	Presentation of the Innovation Award
13:30 – 14:30	Poster Session 2
14:30 – 14:45	Offline Health Break
14:45 – 15:30	Oral Presentation Session # 3 Linkage to ORACLE Theme: Discovery & Translational Innovations Moderators: Ariel Buchler, MSc Candidate Braeden Mair, MSc Candidate
	O-7 Autophagy is Impaired in Arterial Foam Cell Populations During Atherosclerosis Sabrina Robichaud, PhD Candidate, UOHI Supervisor: Mireille Quimet, PhD O-8 Extracellular Vesicles of Human Heart Explant Derived Cells are Enriched with Cardioprotective miRNA Cargo Ramana Vaka, PhD, Postdoctoral Fellow, UOHI Supervisor: Darryl Davis, MD O-9 Wnt5a Causes Action Potential Prolongation in Adult Rat Cardiomyocytes Jerry Wang, MSc Candidate, UOHI Supervisor: Wenbin Liang, MD, PhD
15:30 – 16:15	Oral Presentation Session # 4 Linkage to ORACLE Theme: Healthy Diverse Population Moderators: Ariel Buchler, MSc Candidate Braeden Mair, MSc Candidate
	O-10 Natural History of Mitral Annulus Calcification and Calcific Mitral Valve Disease Nadav Willner, MD, Clinical Fellow, UOHI Supervisor: David Messika-Zeitoun, MD, PhD O-11 Delays in ST-Elevation Myocardial Infarction Care During the COVID-19 Lockdown: An observational study Cole Clifford, MD Candidate, UOHI Supervisor: Derek So, MD O-12 Sex-Differences in Physical Activity in Patients with Atrial Fibrillation: knowledge, outcome expectations and task self-efficacy regarding physical activity Sol Vidal Almela, PhD Candidate, UOHI Supervisor: Jennifer Reed, PhD

16:15 – 16:45	Pfizer Networking Reception
16:45 – 17:00	Awards Ceremony Moderator: Erin Mulvihill, PhD , Co Chair, Research Day Committee, UOHI
	Awards include: <ul style="list-style-type: none"> • Dr. Yves Marcel Award for Best Basic Science Oral Presentation • Howard & Doris Polk Award for Best Clinical Science / Bio-behavioural & Population Health Oral Presentation • Award for Best Basic Science Poster • Award for Best Clinical Science / Bio-Behavioural & Population Health Poster • Awards for Honourable Mentions
17:00 – 17:15	Closing Remarks Sharon Chih, MBBS, FRACP, PhD

Keynote Speaker



Peter Macdonald, MBBS, FRACP, PhD, MD

Conjoint Professor of Medicine, University of New South Wales, Au

Medical Director, Heart Transplant Unit, St Vincent's Hospital, Sydney, Au

Head, Transplantation Research Laboratory, Victor Chang Cardiac Research Institute

Prof. Peter Macdonald is a Conjoint Professor of Medicine in the University of New South Wales, Medical Director of the Heart Transplant Unit at St Vincent's Hospital, Sydney, and Head of the Transplantation Research Laboratory at the Victor Chang Cardiac Research Institute. He is a past President of the Transplantation Society of Australia & New Zealand (TSANZ).

His major research interests over the last 30 years have been in the areas of heart failure, pulmonary hypertension, heart transplantation, donor management and organ preservation. He has co-authored over 350 peer-reviewed manuscripts. In 2010, 2015, 2017 and 2019 he was nominated for the Award of Australian of the Year. In 2015 his research into the recovery and transplantation of hearts from DCD donors was recognised by the NSW Government with the NSW Ministerial Award for cardiovascular research excellence and by the ACT Gift of Life Organisation with the Terry Connolly Award for Healthcare Leadership and Innovation. In 2017, he was made a member of the Order of Australia for his contributions to cardiovascular research and medicine.

Ottawa Region Cardiovascular Trainee of the Year



Adil Rasheed, PhD

Postdoctoral Fellow

University of Ottawa Heart Institute

Congratulations to **Adil Rasheed, PhD, Postdoctoral Fellow**, selected as the Ottawa Region's Cardiovascular Research Trainee of the Year! Dr. Rasheed is recognized

for his exceptional productivity in research and outstanding leadership in the community. His postdoctoral research (under the tutelage of [Katey Rayner, PhD](#)) is centered on a novel role of a protein known as MLKL (Mixed Lineage Kinase Domain-like protein) in regulating atherogenesis, the formation of fatty plaques in the arteries.

Dr. Rasheed has made outstanding contributions to cardiovascular research at this early career stage. Since joining the Rayner lab, Adil has contributed to establishing a new research direction – in investigating, and uncovering, a novel role of MLKL as a critical immune regulator with implications for atherogenesis. His scientific acumen in guiding this work resulted in a prestigious CIHR Project Grant on which Dr. Rasheed is a Co-Investigator. With this project, Dr. Rasheed was awarded a Fellowship supported by the University of Ottawa Cardiac Endowment Fund at the Heart Institute.

Dr. Rasheed published, in this past year alone, two first-authored original research papers, one of which was in *Arteriosclerosis, Thrombosis and Vascular Biology*, a prestigious journal of the American Heart Association and the other was a feature article with an accompanying press release by *Stem Cells Translational Medicine*. He recently authored a 'state-of-the-art' paper invited by *Endocrine Reviews*.

Dr. Rasheed is recognized for his outstanding leadership in the research and trainee communities. He was recently accepted as a member of the *Arteriosclerosis, Thrombosis and Vascular Biology* Early Career Editorial Board. Closer to home, Adil holds the position of Co-President of the University of Ottawa Faculty of Medicine's Postdoctoral Association. In this role, Adil shines in his capacity for high-level leadership, working closely with executive members of the Faculty to develop programs enhancing postdoctoral training. He is a founding member of *Trainees in Metabolism (@MetabTrainees)*, an online community that hosts seminars and workshops focusing on trainee development ranging from scientific communication to mental wellness. Additionally, Dr. Rasheed is a Part-Time Professor in the Faculty of Science at the University of Ottawa, teaching 'Seminar in Genomics' to undergraduate students. Most recently, Dr. Rasheed received the Faculty of Medicine's Leadership Award and Michael McBurney's Postdoctoral Fellow Award in recognition of his contributions.

These are remarkable achievements – research excellence, dedication to the community and outstanding leadership. Dr. Rasheed exemplifies the next generation of research leaders.

Poster Presentations: Basic Science

- P-1 **Investigating Genotoxic Specific Pathways Leading to HFpEF for Developing Effective Therapeutic Treatments**
Mohammad Al-Khalaf, PhD, Postdoctoral Fellow, UOHI
Supervisor: Peter Liu, MD
- P-2 **The Effect of Exercise Training on AGE Accumulation in Patients with Myocardial Infarction**
Ines Amara, PhD, Postdoctoral Fellow, UOHI
Supervisor: Erik Suuronen, PhD
- P-3 **Kernel-based Reconstruction of Cardiac PET Images Using MR Information**
Zahra Ashouri, PhD Candidate, UOHI
Supervisor: Robert deKemp, PhD
- P-4 **Investigating the Role of Ketogenesis in Non-Alcoholic Fatty Liver Disease Development and Treatment**
Shaza Asif, MSc Candidate, UOHI
Supervisor: Kyoung-Han Kim, PhD
- P-5 **Furin-Proteolyzed PCSK9 is Defective for LDL Receptor Binding but Remains Capable for Binding to LDL Particles.**
Ikhuosho Asikhia, PhD Candidate, UOHI
Supervisor: Thomas Lagace, PhD
- P-6 **IL-4 to Polarize M2 Macrophage Cells for Cardiac Repair**
Samy Asraoui, BSc Candidate, UOHI
Supervisor: Emilio Alarcón, PhD
- P-7 **Investigating the Effects of Age-Related Metabolic Dysfunctions in Hematopoietic Cells on Atherosclerosis Regression**
Dominique Boucher, MSc Candidate, UOHI
Supervisor : Mireille Ouimet, PhD
- P-8 **3D Printed Flexible Heart Case for Ex Vivo Organ and Tissue Maturation**
Maxime Emmanuel Comtois-Bona, BSc Candidate, UOHI
Supervisor: Emilio Alarcón, PhD
- P-9 **CARS2 Expression Associates with CAD Protection: Potential Role of the IL10 Pathway**
AnhThu Dang, PhD Candidate, UOHI
Supervisor: Ruth McPherson, MD. PhD
- P-10 **Echocardiographic Akinetic Area as an in vivo Method to Measure Infarct Size**
Melissa Dann, BSc Candidate, UOHI
Supervisor: Erin Mulvihill, PhD
- P-11 **In situ 3D Bioprinting of Synthetic Small Blood Vessels**
Antony El-Khoury, BSc Candidate, UOHI
Supervisor: Emilio Alarcón, PhD
- P-12 **Developing Glyoxalase-1 Loaded Nanoparticles for Targeted Delivery and Treatment of Myocardial Infarction**
Cagla Eren Cimenci, PhD Candidate, UOHI
Supervisor: Erik Suuronen, PhD
- P-13 **Identifying the Genetic Determinants of Lipophagy in *Saccharomyces Cerevisiae***
Garrett Fairman, PhD Candidate, UOHI
Supervisor: Mireille Ouimet, PhD

- P-14 **Identification of the Molecular Mechanisms that Protect the Internal Mammary Artery Against Atherosclerosis**
Lara Gharibeh, PhD, Translational Research Fellow, UOHI
Supervisors: Juan Grau, MD and Mireille Ouimet, PhD
- P-15 **Does GLP-2 Regulate Intestinal Morphology in Response to Significant Metabolic Adaptation to Improve Energy Harvest?**
Antonio Hanson, MSc Candidate, UOHI
Supervisor: Erin Mulvihill, PhD
- P-16 **Burning Fat and Preventing Plaque: Ketogenic Diet Intervention Improves Liver Fat and Atherosclerosis in Diet-Induced Obese Mice**
Cassandra Locatelli, MSc Candidate, UOHI
Supervisor : Erin Mulvihill, PhD
- P-17 **Inhibition of Beta-Catenin Increases Voltage-Gated Sodium Current in Brugada Syndrome Cardiomyocytes**
Aizhu Lu, PhD, Postdoctoral Fellow, UOHI
Supervisor: Wenbin Liang, PhD
- P-18 **New Bioinks for Heart Regeneration**
Aidan MacAdam, BSc Candidate, UOHI
Supervisor: Emilio Alarcón, PhD
- P-19 **Recombinant Human Collagen Hydrogel Improves Cardiac Function and Reduces Methylglyoxal-Modified Collagen Two Days Post-Injection in a Mouse Myocardial Infarction Model**
Sarah McLaughlin, PhD Candidate, UOHI
Supervisor: Erik Suuronen, PhD
- P-20 **Uncovering the Physiological Roles of Gut Hormone Receptor Signalling in Dysregulated Triglyceride-Rich Lipoprotein Secretion During Diet-Induced Obesity**
Nadya Morrow, PhD Candidate, UOHI
Supervisor: Erin Mulvihill, PhD
- P-21 **Evaluation of [18F]BR351 as PET Radiotracer for Matrix Metalloproteinases Imaging in Atherosclerotic Plaques**
Maxime Munch, PhD, Postdoctoral Fellow, UOHI
Supervisor: Benjamin Rotstein, PhD
- P-22 **Nanoengineered Spray-on Cardiac Patch as a Novel Therapeutic for Treating Myocardial Infarction**
Marcelo Muñoz, PhD, Postdoctoral Fellow, UOHI
Supervisor: Emilio Alarcón, PhD
- P-23 **Discovery of New Substrates for Dipeptidyl Peptidase-4 Involved in Type 2 Diabetes Complications**
Serena Pulente, BSc Candidate, UOHI
Supervisor: Erin Mulvihill, PhD
- P-24 **Modulation of the Acute Cerebrovascular Response to Ischemic Stroke by Sex Hormones is Dependent on Rho-kinase**
Joanna Raman-Nair, MSc Candidate, uOttawa
Supervisor: Baptiste Lacoste, PhD
- P-25 **Loss of the Mixed Lineage Kinase Domain-Like Protein Decreases Necrotic Core but Increases Macrophage Lipid Accumulation in Atherosclerosis**
Adil Rasheed, PhD, Postdoctoral Fellow, UOHI
Supervisor: Katey Rayner, PhD
- P-26 **Biofunctional Peptide-based 3D Matrices for Advanced Tissue Engineering**
Alex Ross, MSc Candidate, UOHI
Supervisors: Emilio Alarcón, PhD and Erik Suuronen, PhD

- P-27 **Characterization of miR1908-5p as an Anti-Inflammatory miRNA in Macrophages**
Sébastien Soubeyrand, PhD, Research Manager, UOHI
Supervisor: Ruth McPherson, MD, PhD
- P-28 **Reducing Cardiovascular Complications by Treating Pneumonia with Specialized Pro-Resolving Lipid Mediators**
Cameron Stotts, MSc Candidate, UOHI
Supervisor: Katey Rayner, PhD
- P-29 **Mitochondrial Dynamics Directs Macrophage Polarization During Atherosclerosis: Implications for disease regression**
Leah Susser, PhD Candidate, UOHI
Supervisor: Katey Rayner, PhD
- P-30 **Elimination of Hepatocyte Specific Dpp4 Decreased Hepatic Guconeogenesis but Does Not Alter Markers of Liver Disease Progression in Aged, High Fat, High Cholesterol-Fed Mice**
Natasha Trzaskalski, PhD Candidate, UOHI
Supervisor: Erin Mulvihill, PhD
- P-31 **Role of ORP6 in Intracellular Cholesterol Trafficking**
Viyashini Vijthakumar, MSc Candidate, UOHI
Supervisor: Mireille Ouimet, PhD
- P-32 **Inhibition of β -catenin Reduces Ventricular Arrhythmias in Mice After Myocardial Infarction.**
Jerry Wang, MSc Candidate, UOHI
Supervisor: Wenbin Liang, MD, PhD
- P-33 **Apelin-Positive Endothelial Cell Population in Lung Microvascular Regeneration Murine Model**
Liyuan Wang, PhD, Postdoctoral Fellow, OHRI
Supervisor: Duncan Stewart, MD
- P-34 **Overexpression of Tbx3 in Neonatal Cardiomyocytes Causes Apoptosis**
Ying Xia, PhD Candidate, UOHI
Supervisor: Wenbin Liang, MD, PhD

Poster Presentations: Clinical Science

- P-35 **Potential Use of Stress Myocardial Blood Flow Measurement to Reduce Need for Rest Imaging with Rest/Stress Single-Photon Emission Computerized Tomography Myocardial Perfusion Imaging**
Mohammad AlShaheen, MD, Clinical Fellow, UOHI
Supervisor: Terrence Ruddy, MD
- P-36 **CathAI: Validation of a Fully Automated Coronary Angiography Interpretation and Stenosis Detection Using a Deep Learning-based Algorithmic Pipeline**
Robert Avram, MD, Interventional Cardiology Fellow, UOHI
Supervisor: Derek So, MD
- P-37 **Non-Ideal De-Escalation of P2Y12 Inhibitors After Percutaneous Coronary Intervention and Acute Coronary Syndromes.**
Quinton Barry, MD, Cardiology Resident, UOHI
Supervisor: Derek So, MD
- P-38 **Recovering from Spontaneous Coronary Artery Dissection: Patient-Reported Challenges and Rehabilitative Intervention Needs**
Karen Bouchard, PhD, Postdoctoral Fellow, UOHI
Supervisor: Heather Tulloch, PhD
- P-39 **Clinical Outcomes in Patients Stratified by the PRECISE-DAPT Versus DAPT Scores After Percutaneous Coronary Interventions**
Rene Boudreau, MD, Cardiology Resident, UOHI
Supervisor: Derek So, MD
- P-40 **Comparison of Extra-Cellular Volume Measured with Cardiac Computed Tomography in Comparison to Magnetic Resonance in Patients with Cardiac Amyloidosis**
Juliana Brenande de Oliveira Brito, MD, Cardiac Imaging Fellow, UOHI
Supervisor: Gary Small, MB, PhD
- P-41 **One Year Ischemic and Bleeding Outcomes in Patients with High Bleeding Risk Factors Post Percutaneous Coronary**
Angel Yi Nam Fu, MD, Cardiology Resident, UOHI
Supervisor: Derek So, MD
- P-42 **Skin Barrier to Reduce Cardiac Electronic Device Implant Infection**
NhatChinh Le, MD Candidate, UOHI
Supervisor: Mehrdad Golian, MD
- P-43 **IGFBP7 as a Pre-Operative Predictor of Congestive Acute Kidney Injury in Adults Undergoing Cardiac Surgery**
Yannick MacMillan, MD Candidate, UOHI
Supervisor: Louise Sun, MD
- P-44 **Association Between Handover of Anesthesiology Care and One-Year Mortality Among Patients Undergoing Cardiac Surgery**
John O'Connor, MD, Cardiac Anesthesiology Fellow, UOHI
Supervisor: Louise Sun, MD
- P-45 **Practical Recommendations for 24-hour Movement Behaviours at Home for Those at Risk of or Living with Heart Disease During COVID-19: A narrative review on moving together while staying apart**
Carley O'Neill, PhD, Postdoctoral Fellow, UOHI
Supervisor: Jennifer Reed, PhD

- P-46 **The Effect of the Time of Presentation on Clinical Outcomes in Patients Treated with Primary Percutaneous Coronary Intervention for ST-Segment Elevation Myocardial Infarction: Analysis of the University of Ottawa Heart Institute STEMI Registry**
Mohammed Rashid, MD, Cardiology Fellow, UOHI
Supervisor: Michel Le May, MD
- P-47 **Cannabis Use in Patients with Heart Disease: A cross-sectional evaluation**
Kate Walker, PhD Candidate, UOHI
Supervisor: Bob Reid, PhD
- P-48 **Comprehensive Ablation Strategy During Repeat Atrial Fibrillation Ablation**
Willy Weng, MD, Cardiology Resident, UOHI
Supervisor: Mouhannad Sadek, MD



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Professor Peter Macdonald, St Vincent's Hospital, Sydney, Australia
Drs. Thierry Mesana, CEO & President; Peter Liu, Chief Scientific Officer & VP Research;
Sharon Chih; Erin Mulvihill and Adil Rasheed (UOHI)

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Michael Tremblay, CEO, Invest Ottawa

Jennifer Reed, PhD, Director, Exercise Physiology and Cardiovascular Health Laboratory,
UOHI

Kyoung-Han Kim, PhD, Director, Functional Genetics and Metabolism Laboratory, UOHI

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