29th ANNUAL RESEARCH DAY

Program Guide

May 30, 2016
Foustanellas Auditorium
University of Ottawa
Heart Institute
The Research Day Committee gratefully acknowledges the support of our event partners.

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**CONFERENCE SUPPORTERS:**

Ms. Coralie Lalonde
The Polk Family Foundation
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Coralie Lalonde Innovation Award Finalists 12
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Welcome to the 29th Annual Research Day

On behalf of the organizing committee, it is with great pleasure that we welcome you to the University of Ottawa Heart Institute (UOHI)’s 29th Annual 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 with you the following program highlights:

- Keynote lecture by Dr. Eduardo Marbán, Director, Cedars-Sinai Heart Institute in Los Angeles, an international leader in cardiology and a pioneering heart researcher
- Investigator of the Year Lecture by Dr. Darryl Davis
- Trainee of the Year Lecture by Dr. Denuja Karunakaran, Postdoctoral Fellow (working with Dr. Katey Rayner)
- Presentation of the Dr. Robert Roberts Award for Research Excellence
- Coralie Lalonde Innovation Award - this award recognizes the most innovative abstract which presents a new idea, process, technology, or product that could deliver on an unmet need or solve a critical problem in the cardiovascular field. The primary focus is to recognize innovative ideas and trainees’ ability to effectively communicate to a lay audience.

With 16 abstract talks and 49 posters, we are confident Research Day is a great venue to network with your colleagues and learn more about the research being done at the UOHI as well as in the Ottawa region. The day will conclude with a wine and cheese networking reception, and an award 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 the Polk Family Foundation, Ms. Coralie Lalonde, and our Silver Level Sponsors: AstraZeneca Canada Inc., Servier Canada Inc., the Ottawa Hospital Research Institute (OHRI), and the Ontario Institute for Regenerative Medicine (OIRM) for their continued and generous support.

We hope you will enjoy Research Day 2016!

Sincerely,

Darryl Davis, MD                     Thomas Lagace, PhD
Chair, Research Day Committee        Co-Chair, Research Day Committee
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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>7:00 – 8:00</td>
<td>Registration, Continental Breakfast, and Poster Setup</td>
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| 8:00 – 8:15| **Welcoming Address**  
Dr. Thierry Mesana, President & CEO, UOHI  
**Chief Scientific Officer Address**  
Dr. Peter Liu, VP Research & Chief Scientific Officer, UOHI  
**Introduction to the 29th Annual Research Day**  
Dr. Darryl Davis, Chair, Research Day Committee, UOHI |
| 8:15 – 9:30| **Oral Presentations – ORACLE Theme 1: Personal Tailored Health Solutions**  
Chairs: Ms. Melanie Villanueva, MSc Student and Ms. Sandrine Parent, MSc Student, UOHI |
| 8:15 – 8:30| **O-1 PAPI as a Predictor of RV Failure Post-Heart Transplant**  
Dr. Donna May Kimmaliardjuk, Resident, UOHI (Supervisors: Drs. Louise Sun & Marc Ruel) |
| 8:30 – 8:45| **O-2 The Association Between Low Blood Pressure During Major Cardiac Surgery & Subsequent Stroke**  
Ms. Amy Chung, Medical Student, UOHI (Supervisor: Dr. Louise Sun) |
| 8:45 – 9:00| **O-3 Sex Differences in the Growth Rates of Thoracic Aortic Aneurysms: Role of Aneurysm Etiology**  
Ms. Katie Cheung, Undergraduate Student, UOHI (Supervisor: Dr. Thais Coutinho) |
| 9:00 – 9:15| **O-4 Atrial Fibrillation is Associated with Increased Right Atrial Metabolic Activity on FDG/PET Imaging in Patients with Ischemic Cardiomyopathy**  
Mr. Nicolas Santi, Medical Student, UOHI (Supervisor: Dr. Rob Beanlands) |
| 9:15 – 9:30| **O-5 Long-Term Follow-up at 8 Years of the Clopidogrel After Surgery for Coronary Artery DiseasE (CASCADE) Randomized Trial**  
Mr. Ali Hage, Medical Student, UOHI (Supervisor: Dr. Marc Ruel) |
| 9:30 – 10:00| **Oral Presentations – ORACLE Theme 4: Community Intervention & Policy Innovations for CV Health**  
Chair: Mr. Pushpinder Kanda, MD-PhD Student, UOHI |
| 9:30 – 9:45| **O-6 Perceived Need to Improve Physical Health among Canadian Adults with Self-reported Potentially Modifiable Cardiovascular Risk Factors**  
Dr. Daniel Ramirez, Resident, UOHI (Supervisor: Dr. Benjamin Hibbert) |
| 9:45 – 10:00| **O-7 Characterizing Vascular Health in Female Nurses in the Champlain Region of Ontario**  
Dr. Lisa Cotie, Postdoctoral Fellow, UOHI (Supervisor: Dr. Bob Reid) |
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| 10:00 – 11:15| **Poster Session and Poster Judging (Track Area)**  
(see page 13 for the List of Posters) |
| 11:15 – 11:30| **Coralie Lalonde Innovation Award Winner’s Pitch & Award Presentation**  
Chair: Ms. Coralie Lalonde, Chair, OHIRC Board  
The winner will be selected from the final rounds (more details on the finals on p. 12), and presented with the prize. |
| 11:30 – 11:55| Lunch                                                                |
| 11:55 – 13:00| **Dr. Roberts Award Presentation & Investigator/Trainee of the Year Lectures** |
| 11:55 – 12:00| **Announcing the Recipient(s) of the Dr. Robert Roberts Award of Research Excellence & Award Presentation**  
Presented by: Dr. Thierry Mesana, President & CEO, UOHI |
| 12:00 – 12:30| **UOHI 2016 Investigator of the Year Lecture**  
Dr. Darryl Davis |
| 12:30 – 13:00| **UOHI 2016 Trainee of the Year Lecture**  
Dr. Denuja Karunakaran, Postdoctoral Fellow (Supervisor: Dr. Katey Rayner) |
| 13:00 – 14:00| **Keynote Lecture**  
*Therapeutic Regeneration of the “Irreversibly” Injured Heart*  
Dr. Eduardo Marbán, Director, Cedars-Sinai Heart Institute |
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<th>Time</th>
<th>Session</th>
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<tr>
<td>14:00 – 14:10</td>
<td><strong>Refreshment Break</strong></td>
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| 14:10 – 15:10| **Oral Presentations – ORACLE Theme 3: Optimizing Technology & Human Interface for Heart & Vessels**  
Chair: Dr. Lisa Cotie, Postdoctoral Fellow, UOHI |
| 14:10 – 14:25| **O-8 Generating Definitive Endoderm & Lung Progenitors from Human Induced Pluripotent Stem Cells for Lung Tissue Regeneration**  
Dr. Miriel Ho, Postdoctoral Fellow, OHRI (Supervisor: Dr. Duncan Stewart) |
| 14:25 – 14:40| **O-9 Glyoxalase 1 Attenuates the Effects of Chronic Hyperglycemia on Cardiac Stem Cells**  
Ms. Melanie Villanueva, MSc Student, UOHI (Supervisor: Dr. Darryl Davis) |
| 14:40 – 14:55| **O-10 Sensitivity and Specificity of Chest Imaging for Screening for Sarcoidosis in Patients with Cardiac Presentations**  
Dr. Juan Russo, Resident, UOHI (Supervisor: Dr. David Birnie) |
| 14:55 – 15:10| **O-11 Cups Interventions in Aortic Valve Repair: Are All Pericardial Patches Created Equal?**  
Dr. Janet Ngu, Resident, UOHI (Supervisor: Dr. Munir Boodhwani) |
| 15:10 – 15:20| **Refreshment Break**                                                   |
| 15:20 – 16:35| **Oral Presentations – ORACLE Theme 2: Unlocking Novel Causes of CV Disease**  
Chair: Ms. Samantha Sarkar, PhD Student and Ms. Melanie Villanueva, MSc Student, UOHI |
| 15:20 – 15:35| **O-12 Capacity of Human Muscle Satellite Cells for Brown Adipogenic Transformation in Response to Antagomir Silencing of miRNA-133**  
Dr. Fiona McMurray, Postdoctoral Fellow, UOHI (Supervisor: Dr. Ruth McPherson) |
| 15:35 – 15:50| **O-13 Innate Immune NOD1/RIP2 Signaling is Essential for Cardiac Hypertrophic Response – Novel Regulation by Mitochondrial Danger Signal**  
Dr. Han-bin Lin, Postdoctoral Fellow, UOHI (Supervisor: Dr. Peter Liu) |
| 15:50 – 14:05| **O-14 Deletion of MLIP Leads to Cardiac Hyperactivation of Akt/mTOR & Impaired Cardiac Adaptation**  
Dr. Marie-Elodie Cattin, Postdoctoral Fellow, UOHI (Supervisor: Dr. Patrick Burgon) |
| 14:05 – 14:20| **O-15 Identification & Characterization of a Transitional Program That Controls Cell Cycle Arrest in the Developing Heart**  
Mr. Jonathan Weldrick, PhD Student, UOHI (Supervisor: Dr. Patrick Burgon) |
| 16:20 – 16:35| **O-16 Macrophage Communication via Exosomal Transfer of MicroRNAs Reduces Macrophage Migration During Atherosclerosis**  
Ms. My-Anh Nguyen, PhD Student, UOHI (Supervisor: Dr. Katey Rayner) |
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<th>Time</th>
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<tr>
<td>16:35 – 17:15</td>
<td>Networking Reception and Poster Session</td>
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<td>17:15 – 17:30</td>
<td><strong>Award Ceremony</strong>&lt;br&gt;Chair: Dr. Thomas Lagace, Co-Chair, Research Day Committee, UOHI</td>
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<td><strong>Awards include:</strong></td>
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<td>• Howard and Doris Polk Award for the Best Clinical Science / Bio-behavioural &amp; Population Health Presentation</td>
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<td>• Servier Award for Best Basic Science Oral Presentation</td>
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<td>• Best Basic Science Poster</td>
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<td></td>
<td>• AstraZeneca Award for Best Clinical Science / Bio-behavioural &amp; Population Health Poster</td>
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<td></td>
<td>• Oral Presentation and Poster Honourable Mentions</td>
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<tr>
<td>17:30 – 17:35</td>
<td><strong>Closing Remarks</strong>&lt;br&gt;Dr. Darryl Davis, Chair, Research Day Committee, UOHI</td>
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<td>17:35 – 18:00</td>
<td><strong>Poster Tear-Down</strong></td>
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Eduardo Marbán, MD, PhD, is an international leader in cardiology and a pioneering heart researcher. His 30-plus years of experience in patient care and research have led to key discoveries in gene and stem cell therapies for heart disease. Those discoveries have formed the basis for multiple startup companies.

Marbán attended public schools through high school and later Wilkes College, where he earned a BS in Mathematics. Thereafter, Marbán completed a combined MD/PhD program at Yale University. Postgraduate training took him to the Osler Medical Service at the Johns Hopkins University, where he eventually spent 25 productive years. During his tenure there, he served in a variety of academic and research positions, including Chief of Cardiology.

In his research career, Marbán, a cellular electrophysiologist by training, has pursued questions of relevance to heart disease (ischemia, heart failure and arrhythmias). The Marbán laboratory elucidated the fundamental pathogenesis of myocardial stunning, pioneered the concept of gene therapy to alter electrical excitability, and created the first de novo biological pacemaker as an alternative to electronic pacemakers. He first became interested in stem cells in 2002, building upon his work on biological pacemakers. Since 2004 the lab has been intensively studying cardiac progenitor cells, their origins and their therapeutic potential. The basic work has come full circle in that Marbán’s cardiac-derived cell products form the basis for 4 grant-funded clinical trials: one completed (CADUCEUS), and three ongoing (ALLSTAR, DYNAMIC, and HOPE-Duchenne). The CADUCEUS trial was the first to show that cell therapy can repair “irreversible” tissue damage caused by heart attacks, ushering in the concept of therapeutic regeneration in humans.

In 2007, Dr. Marbán became founding director of the Cedars-Sinai Heart Institute, a multidisciplinary entity which brings together adult and pediatric cardiologists, cardiac surgeons, imaging specialists and researchers to foster discovery and enhance patient care. The institute is built on a long tradition of excellence and innovation at Cedars-Sinai, including the invention of the Swan-Ganz catheter. The Cedars-Sinai Heart Institute, ranked as the top heart program in the western USA, performs more heart transplants annually than any other institution worldwide.

Among the many honors Dr. Marbán has received are the Basic Research Prize of the American Heart Association (AHA), the Research Achievement Award of the International Society for Heart Research, the Gill Heart Institute Award and the Distinguished Scientist Awards of the AHA and the American College of Cardiology.
Dr. Davis's research focuses on the culture of explant-derived cardiac stem cells from routine myocardial biopsies, with an emphasis on developing novel means of enhancing long-term engraftment and therapeutic repair of ischemic cardiomyopathy.

Recruited to the UOHI in 2009, Dr. Davis has developed an excellent research program in regenerative medicine. Dr. Davis holds continuous peer reviewed funding from several agencies including CIHR, Heart and Stroke Foundation, the Stem Cell Network and the Ontario Ministry of Innovation, amongst others. He is a co-investigator on several large-scale projects in collaboration with other researchers. Dr. Davis holds an excellent publication record. He regularly gives invited talks at international meetings and serves on several peer review panels including CIHR, HSF, as well as the British Heart Foundation. Dr. Davis has trained a number of graduate and undergraduate students and fellows. He serves as Director of the Electrophysiology Postgraduate Research Program.

Here are a few examples of the year Dr. Davis has had. In 2015-16, Dr. Davis:

- succeeded in obtaining a CIHR Clinician Scientist Phase 2 award (renewal) as career support for his application on “strategies to enhance cardiac repair of advanced ischemic cardiomyopathy by autologous cardiac-derived cells”. The application was ranked #1 in the competition.
- was awarded a University of Ottawa Faculty of Medicine Tier 2 Research Chair
- received CFI infrastructure funding (in collaboration with Dr. Michael Rudnicki, Ottawa Hospital Research Institute).
Dr. Denuja Karunakaran is a postdoctoral fellow working with Dr. Katey Rayner in the Cardiometabolic microRNA Laboratory. Her postdoctoral research focus is on macrophage-driven mechanisms in atheroclerosis. Prior to joining the Institute, Dr. Karunakaran completed her PhD at Monash University in Australia where she studied novel mechanisms of platelet activation in thrombus formation.

Dr. Karunakaran has been a trainee “tour de force” in the Rayner lab as well as at the Institute. In the three short years since joining the group, she has demonstrated excellent research productivity and leadership. She has begun to establish her independent research program through initiating collaborations with the Interventional Cardiology group at the UOHI and Australia to better understand macrophage and platelet function in atherothrombosis. She has also developed an independent project within Dr. Rayner’s research program looking at the mechanisms of exacerbated atheroclerosis and macrophage cholesterol accumulation in patients with psoriasis in collaboration with Dr. Girish Dwivedi.

Dr. Karunakaran has supervised and mentored several junior trainees in the lab, and hosted high school students as part of the CIHR “Gene Researcher for a Week” program. She also helped establish the UOHI Trainee Committee and served as Co-Chair from 2014-16.

Highlights of Dr. Karunakaran’s achievements in 2015-16:

- Three first-author papers in leading journals, including a Circulation Research publication, "Macrophage Mitochondrial Energy Status Regulates Cholesterol Efflux and Is Enhanced by Anti-miR33 in Atherosclerosis"
- Four oral presentations at prestigious, international scientific meetings including the American Heart Association and Experimental Biology.
- Received peer reviewed funding including from CIHR to present at international meetings.
- Session Chair at the Experimental Biology Scientific Meeting 2015 and a member of the Program Committee for the American Society of Investigative Pathology as part of Experimental Biology.
- Hosted Dr. Rosanne Crooke, VP Drug Discovery at Ionis Pharmaceuticals, in a UOHI Trainee Committee Invited Lecture.
- Co-inventor on a provisional patent application identifying necroptosis as a biomarker of vulnerable lesions.
The Coralie Lalonde Innovation Award recognizes the most innovative abstract which presents a new idea, process, technology, or product that could deliver on an unmet need or solve a critical problem in the cardiovascular field. The primary focus is to recognize innovative ideas and trainees’ ability to effectively communicate to a lay audience.

This year, five lay abstracts have been invited to compete in the finals. The winner will present his/her lay pitch to all Research Day attendees at 11:15 a.m. in the Foustanellas. The prize presentation will follow immediately. Part of the prize is a one-on-one mentoring session with an innovation leader from the Ottawa region.

9:15 – 9:30
I-5 The Safety and Efficacy of a Pharmaco-invasive Strategy in ST-Elevation Myocardial Infarction
Mr. Mohammed Rashid, Medical Student, UOHI
(Supervisor: Dr. Michel Le May)

9:30 – 9:45
I-4 Translationally Controlled Tumor Protein: A Novel Therapeutic Target in Pulmonary Arterial Hypertension
Ms. Dhiya Hassan, MSc Student, OHRI (Supervisor: Dr. Duncan Stewart)

9:45 – 10:00
I-3 The Role of a Small RNA in the Immune Response to Infection
Ms. Geneviève Desrochers, PhD Student, University of Ottawa
(Supervisor: Dr. John Paul Pezacki)

10:00 – 10:15
I-2 The Association Between Low Blood Pressure During Major Cardiac Surgery and Subsequent Stroke
Ms. Amy Chung, Medical Student, UOHI (Supervisor: Dr. Louise Sun)

10:15 – 10:30
I-1 Sex Differences in the Growth Rates of Thoracic Aortic Aneurysms: Role of Aneurysm Etiology
Ms. Katie Cheung, Undergraduate Student, UOHI
(Supervisor: Dr. Thais Coutinho)
List of Posters

Basic Science

P-1  Methylglyoxal-mediated impaired repair and remodeling post-myocardial infarction  
Mr. Nick Blackburn, PhD Student, UOHI  
(Supervisor: Dr. Erik Suuronen)

P-2  Mutations associated with hyper-responsiveness to VEGFR2 inhibition causing pulmonary arterial hypertension in unique rat colony  
Dr. Ketul Chaudhary, Postdoctoral Fellow, OHRI  
(Supervisor: Dr. Duncan Stewart)

P-3  MicroRNA-185 regulation of immunometabolism in the context of viral infection  
Ms. Geneviève Desrochers, PhD Student, University of Ottawa  
(Supervisor: Dr. John Paul Pezacki)

P-4  Translationally Controlled Tumor Protein: A Novel Therapeutic Target in Pulmonary Arterial Hypertension  
Ms. Dhiya Hassan, MSc Student, OHRI  
(Supervisor: Dr. Duncan Stewart)

P-5  A novel Tbx5 protein isoform has a critical role in muscle differentiation  
Massomeh Sheikh Hassani, PhD Student, University of Ottawa  
(Supervisor: Dr. Mona Nemer)

P-6  Wnt signaling inhibits cardiac sodium current by suppression of Scn5a expression  
Dr. Maryam Kamkar, Postdoctoral Fellow, UOHI  
(Supervisor: Dr. Wenbin Liang)

P-7  Tbx3 potently inhibits voltage-gated sodium current in neonatal rat ventricular myocytes  
Dr. Maryam Kamkar, Postdoctoral Fellow, UOHI  
(Supervisor: Dr. Wenbin Liang)

P-8  Mitochondrial energetics and atrial fibrillation in type-2 diabetic patients undergoing coronary artery bypass graft surgeries  
Mr. Georges Kanaan, PhD Student, University of Ottawa  
(Supervisor: Dr. Mary-Ellen Harper)

P-9  Encapsulated Cardiac Stem Cells adopt a pro-migratory phenotype to boost cell-mediated repair of ischemic myocardium  
Mr. Pushpinder Kanda, MD-PhD Student, UOHI  
(Supervisor: Dr. Darryl Davis)

P-10  Effects of exercise training on FNDC5/BDNF pathway in the heart post myocardial infarction  
Dr. Heow Won Lee, PhD Student, UOHI  
(Supervisor: Dr. Frans Leenen)

P-11  Effects of exercise training on BDNF and TrkB in the hippocampus in spontaneously hypertensive rats  
Dr. Heow Won Lee, PhD Student, UOHI  
(Supervisor: Dr. Frans Leenen)
Macrophage function mediated through a miR-92a mechanism by a collagen matrix
Mr. Zach Lister, MSc Student, UOHI
(Supervisors: Drs. Erik Suuronen & Katey Rayner)

Collagen therapy & cardiac function
Ms. Sarah McLaughlin, MSc Candidate, UOHI
(Supervisor: Drs. Emilio Alarcon & Erik Suuronen)

Collagen biomaterial enhances CD34+ cell function through mir-21
Dr. Brian McNeill, Postdoctoral Fellow, UOHI
(Supervisor: Dr. Erik Suuronen)

Xeno-free serum-free culture of human explant-derived cardiac stem cells enhances myocardial repair
Mr. Seth Mount, MSc Student, UOHI
(Supervisor: Dr. Darryl Davis)

Endothelial cell function is impaired by modification of its extracellular matrix by methylglyoxal
Mr. Bora Nadlacki, MSc Candidate, UOHI
(Supervisor: Dr. Erik Suuronen)

Encapsulation of Cardiac Stem Cells for Advanced Ischemic Cardiomyopathy
Ms. Sandrine Parent, MSc Candidate, UOHI
(Supervisor: Dr. Darryl Davis)

Collagen for cardiac therapy
Mr. James Podrebarac, MSc Student, UOHI
(Supervisors: Drs. Emilio Alarcon & Erik Suuronen)

Development of photosensitive scaffolds for cardiovascular repair
Ms. Justina Pupkaite, PhD Student, UOHI
(Supervisor: Dr. Erik Suuronen)

Caspase-dependent pathways governing cardiac hypertrophy
Ms. Charis Putinski, PhD Student, OHRI
(Supervisor: Dr. Lynn Megeney)

Cardiac stem cells from aged donors with ischemic cardiomyopathy exhibit impaired cell cycle control & repair
Ms. Rafatian Ghazaleh, PhD Student, UOHI
(Supervisors: Drs. Darryl Davis & Erik Suuronen)

Association of PCSK9 with low density lipoproteins (LDL) in the regulation of LDL-cholesterol
Ms. Samantha Sarkar, PhD Student, UOHI
(Supervisor: Dr. Thomas Lagace)
Modulation of metabolic pathways by a microRNA differentially expressed during viral infection
Mr. Tyler Shaw, MSc Student, University of Ottawa
(Supervisor: Dr. John Paul Pezacki)

Analysis of a Novel Genome-wide Association Study Signal in SMAD3 that Confers Protection from Coronary Artery Disease
Mr. Adam Turner, PhD Student, UOHI
(Supervisor: Dr. Ruth McPherson)

Identification of Novel GATA4 Protein Interacting Partners Required for Cardiac Angiogenesis
Ms. Jamie Whitcomb, PhD Student, University of Ottawa
(Supervisor: Dr. Mona Nemer)
Clinical Science & Bio-behavioural and Population Health

Efficacy of Catheter Ablation for Ventricular Arrhythmias: A Systematic Review
Dr. Wael Alqarawi, Resident, UOHI
(Supervisor: Dr. Girish Nair)

Adherence of Physicians to Appropriate Use Criteria for SPECT at University of Ottawa Heart Institute in Three Consecutive Years
Dr. Atif H. Alzahrani, Clinical Fellow, UOHI
(Supervisor: Dr. Terrence Ruddy)

Prospective Assessment of Incidence and Mechanisms of Tricuspid Regurgitation Post Endocardial Lead Placement
Dr. Kalilur Anvardeen, Postdoctoral Fellow, UOHI
(Supervisor: Dr. Kwan Chan)

Appropriate Use Criteria for Cardiac Computed Tomography: Impact on Diagnostic Utility
Dr. Karan Bami, Resident, UOHI
(Supervisor: Dr. Benjamin Chow)

Prospective Validation of Postoperative Atrial Fibrillation Prediction Scores
Dr. Matthew Cameron, Clinical Fellow, UOHI
(Supervisor: Dr. Diem Tran)

Cessation self-efficacy mediation of nicotine withdrawal in individuals with and without a psychiatric illness
Mr. Matthew Clyde, PhD Student, UOHI
(Supervisor: Dr. Heather Tulloch)

Utility of a smart phone application in assessing radial artery patency – the CAPITAL iRADIAL study
Dr. Pietro Di Santo, Resident, UOHI
(Supervisor: Dr. Benjamin Hibbert)

Association of intraoperative Bispectral Index (BIS) profiles and patient outcomes in cardiac surgical patients
Dr. Adam Dryden, Clinical Fellow, UOHI
(Supervisor: Dr. Bernard McDonald)

Cardiac Positron Emission Tomography in Transplant Cardiac Allograft Vasculopathy: PETCAV study preliminary results
Dr. Fernanda Erthal, Clinical Fellow, UOHI
(Supervisor: Dr. Rob Beanlands)
Expanding the limits: Transcatheter Aortic Valve Implantation (TAVI) in pure native aortic valve regurgitation. Systematic review
Mr. Joshua Fedrer, Medical Student, UOHI
(Supervisor: Dr. Marino Labinaz)

Impact of ECG Findings on Pursuit of Further Cardiac Diagnostic Evaluations for Patients Enrolled in a Tertiary Bariatric Program
Mr. Daniel Goubran, Medical Student, UOHI
(Supervisor: Dr. Derek So)

A novel method for quantifying vascular inflammation
Ms. Charlene Habibi, Undergraduate Student, OHRI & UOHI
(Supervisors: Drs. Vicente Corrales-Medina & Girish Dwivedi)

The HEARTY Trial: Autonomy Support and Self-determined Motivation Predict Fitness in Obese Youth
Dr. Adam Heenan, Postdoctoral Fellow, UOHI
(Supervisor: Dr. Heather Tulloch)

The accuracy of PET and SPECT imaging in the diagnosis of IE and IEDC infection: a systematic review and meta-analysis
Dr. Daniel Juneau, Clinical Fellow, UOHI
(Supervisor: Dr. Benjamin Chow)

Long-term Single Procedure Outcomes of Contact Force Guided Pulmonary Vein Isolation for Paroxysmal Atrial Fibrillation
Mr. Zachary MacDonald, Medical Student, UOHI
(Supervisors: Drs. David Birnie & Girish Nair)

Why Do Adult Women Exercise? A Systematic Review of Prospective Cohort Studies to Identify Intrapersonal, Social Environmental and Physical Environmental Determinants
Dr. Stephanie Prince Ware, Postdoctoral Fellow, UOHI
(Supervisor: Dr. Bob Reid)

The Safety and Efficacy of a Pharmaco-invasive Strategy in ST-Elevation Myocardial Infarction
Mr. Mohammed Rashid, Medical Student, UOHI
(Supervisor: Dr. Michel Le May)

Qualitative Evaluation Of Right Ventricular Function By Cardiac Anesthesiologists: Are We Speaking The Same Language?
Dr. Meggie Raymond, Clinical Fellow, UOHI
(Supervisor: Dr. Benjamin Sohmer)

Mid-Term Follow-up of Minimally Invasive Multivessel Coronary Artery Bypass Grafting: Is the Learning Curve Detrimental?
Dr. Maria Rodriguez, Clinical Fellow, UOHI
(Supervisor: Dr. Marc Ruel)

Repeat Revascularization after Minimally Invasive Coronary Artery Bypass Grafting: Is It a Problem?
Dr. Maria Rodriguez, Clinical Fellow, UOHI
(Supervisor: Dr. Marc Ruel)
P-47 Impact of pre-existing hypertension on clinical outcomes in comatose survivors of out-of-hospital cardiac arrest
Dr. Juan Russo, Resident, UOHI
(Supervisor: Dr. Michel Le May)

P-48 Incidence of Sternal Wound Infection following Tracheostomy in Cardiac Surgery Patients: A Systematic Review and Meta-Analysis
Dr. Hadi Toeg, Resident, UOHI
(Supervisor: Dr. Fraser Rubens)

P-49 Characteristics and predictors of electrical reconnections comparing contact force (CF) versus non CF guided PVI
Dr. Colin Yeo, Clinical Fellow, UOHI
(Supervisor: Dr. Girish Nair)
Special thanks to

Silver Level Sponsors:

Conference Supporters:
The Polk Family Foundation
Ms. Coralie Lalonde

All Presenters and Attendees

Research Day Speakers
Dr. Eduardo Marbán (Cedars-Sinai Heart Institute). Drs. Thierry Mesana, President & CEO; Peter Liu, VP Research & Chief Scientific Officer; Darryl Davis; Thomas Lagace; Denuja Karunakaran (UOHI).

Innovation Award Judges & On-site Coordinator
Judges: Ms. Coralie Lalonde, Chair, OHIRC Board; Mr. Bruce Good (OHIRC Board); Ms. Keira Torkko (Invest Ottawa); Dr Linda Marbán (Capricor); Drs. Erik Suuronen & Derek So (UOHI). On-site Panel Coordinator: Ms. Aisha Weaver, Director, Legal Affairs (UOHI).

Oral Presentation Session Chairs
Ms. Melanie Villanueva; Ms. Sandrine Parent; Mr. Pushpinder Kanda; Dr. Lisa Cotie; Ms. Samantha Sarkar (UOHI).

Oral Presentation Judges
Dr. Eduardo Marbán (Cedars-Sinai Heart Institute). Drs. Patrick Burgon, Darryl Davis, Bob Reid, Diem Tran (UOHI).

Poster Judges
Basic Science: Drs. Emilio Alarcon, Myra Cocker, Rob deKemp, Denuja Karunakaran, Wenbin Liang, David Smyth, Sebastien Soubeyrand, Alexandre Stewart, Glenn Wells (UOHI); Dr. Balwant Tuana (uOttawa). Clinical Science and Bio-behavioural & Population Health: Drs. Aun-Yeong Chong, Darryl Davis, David Glineur, Lisa Mielniczuk, Girish Nair, Janet Ngu, Jennifer Reed, Louise Sun, Diem Tran (UOHI).
Abstract Reviewers
Basic Science: Drs. Benjamin Hibbert, Thomas Lagace, Wenbin Liang, Erik Suuronen (UOHI). Clinical Science and Bio-behavioural & Population Health: Drs. Darryl Davis, Girish Dwivedi, Louise Sun (UOHI). Dr. Elena Pena Fernandez (TOH).

Research Day Planning Committee
Dr. Darryl Davis, Chair; Dr. Thomas Lagace, Co-Chair; Dr. Lisa Cotie; Mr. Pushpinder Kanda; Ms. My-Anh Nguyen; Ms. Sandrine Parent; Ms. Samantha Sarkar; Mr. Adam Turner; Ms. Melanie Villanueva (UOHI).

Abstract Booklet Layout
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