37th Annual Conference of the North American Section of the International Society for Heart Research
“Cardiovascular Disease in Vulnerable Populations”

May 29 - June 1, 2018
Halifax, Nova Scotia
Lord Nelson Hotel & Suites
Program Chair: Susan E. Howlett
37th Annual Conference of the North American Section of the ISHR

Local Organizing Committee

Program Chair: Susan Howlett
Program Co-Chairs: Alex Quinn, Kishore Pasumarthi, Tom Pulinilkunnil, Petra Kienesberger, J.F. Legaré, John Sapp, Scott Grandy & Keith Brunt

ECI Program Executive: Sam Das (Chair), Ron Vagnozzi (Vice-Chair) Erik Blackwood (Secretary)
ECI Program Committee: Randi Parks, Cat Makarewich, Stephan Lange, Natasha Fillmore, Manuel Rosa Garrido & Kim Ho.
Local ECI Contacts: Hirad Feridooni, Brittney Allen
Social Chair: Jeff Molkentin

ISHR Officers and Council Members

President: Gary D. Lopaschuk
President Elect: Peipei Ping
Past President: Elizabeth Murphy
Secretary: Susan Howlett
Treasurer: Litsa Kranias
Recording Secretary: Thomas M. Vondriska
Executive Secretary: Leslie Anderson Lobaugh
Council Members:


2015-2021: Dale Abel, Burns Blaxall, John Elrod, Joseph Hill, Tim O’Connell, Brian O’Rourke and Monte Willis
2018 ISHR-NAS SPONSORS

PLATINUM SPONSORS $10,000+

Dalhousie Medical Research Foundation

GOLD SPONSORS $5,000 - $9,999

CIHR Institute of Circulatory and Respiratory Health
IRSC Institut de la santé circulatoire et respiratoire
CVRG Cardiovascular Research Group

Canadian Physiological Society
Société Canadienne de Physiologie

David Geffen School of Medicine

Data Sciences of Cardiovascular Medicine at UCLA
**IRIDIUM SPONSORS $2,000 - $2,999**

**SILVER SPONSORS $1,000 - $1,999**

**SPONSORS $100 - $999**

Division of Geriatric Medicine
Dear Colleagues

It is my pleasure to welcome you to the 37th Annual Conference of the North American Section of the International Society for Heart Research in Halifax, Nova Scotia, Canada. As a Canadian, I am very happy to have you visiting our part of the world, where I am sure that you will enjoy our kind “Canadian” hospitality. The meeting is being hosted by Dr. Susan Howlett and her colleagues, who have put together a wonderful scientific program that addresses a number of cutting edge topics in the cardiovascular research arena. The meeting will also provide both established and young investigators an ideal venue for exchange of scientific ideas. Susan and her colleagues have also put together a wonderful social program that will expose conference registrants to the rich culture that Halifax has to offer. There is a considerable history to Halifax, which is one of Canada’s oldest cities, and its harbor has always been Canada’s portal to the “Old World”. My sincerest thanks go out to Susan and her colleagues for the tremendous time and effort in putting together what I am sure will be an excellent congress.

I welcome you to Halifax, and hope you enjoy the congress.

Sincerely,

Dr. Gary D. Lopaschuk
President,
NAS-ISHR
Tuesday May 29, 2018
Overview

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<td>8:30 AM</td>
<td>Early Career Investigator (ECI) Symposium</td>
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<td>10:30 AM</td>
<td>Coffee Break</td>
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<tr>
<td>10:45 AM</td>
<td>Career Development Panel – Discussion</td>
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<tr>
<td>12:00 PM</td>
<td>ECI Lunch with senior investigators (Ticket Required) or lunch on your own</td>
<td>Imperial Ballroom</td>
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<tr>
<td>2:00 PM</td>
<td>Young Investigator Competition - Junior Sci.</td>
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<td>3:30 PM</td>
<td>Coffee Break</td>
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<tr>
<td>4:00 PM</td>
<td>Young Investigator competition - Senior Sci.</td>
<td>Regency Ballroom</td>
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<tr>
<td>5:30 PM</td>
<td>Welcome Reception &amp; Posters – Session 1</td>
<td>Georgian Lounge &amp; Admiral Room</td>
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8:00 AM – 5:00 PM Registration

8:30 AM – 10:30 AM ECI Symposium

10:30 AM – 10:45 AM Coffee Break

10:45 AM – 11:45 AM ISHR-NAS Career Development Panel – Funding Opportunities and Strategies for a Successful Grant Submission

Panel discussion on funding mechanisms, strategies, and grant writing advice for early career cardiovascular researchers across the U.S and Canada. Attendees will develop a better understanding of what the major national and international funding opportunities are, and how to best prepare successful grant applications based on the unique aspects of each region’s major funding sources.

Participants:

Ronglih Liao, Ph.D., FAHA
Professor, Stanford University School of Medicine, Stanford Cardiovascular Institute
Chair, Council on Basic Cardiovascular Sciences (BCVS), American Heart Association

Gary Lopaschuk, Ph.D.
Scientific Director, Mazankowski Alberta Heart Institute
Professor, Department of Pediatrics, University of Alberta

Valeria Raparelli, MD, Ph.D.
Professor, Sapienza - University of Rome; Visiting professor, McGill University

Timothy McKinsey, Ph.D.
Associate Professor and Associate Division Head for Translational Research
School of Medicine and Division of Cardiology, University of Colorado

12:00 PM – 1:30 PM ECI Lunch with Senior Investigators (Ticket Required; Sponsored by ISHR International)
2:00 PM – 3:30 PM Young Investigator competition – Junior Sci.  
(Sponsored by Cincinnati Children’s Hospital & Dr. Jeff Robbins)  
Regency Ballroom

CHAIR: Dr. Tom Vondriska, UCLA

Katherina Alsina  
Integrative Molecular and Biomedical Sciences, Baylor College of Medicine  
Houston, TX  
Advisor: Dr Xander Wehrens, MD, PhD

Randi Parks, PhD  
NHLBI/NIH  
Bethesda, MD  
Advisor: Dr Elizabeth Murphy, PhD

Lisa Dorn  
Dept of Physiology and Cell Biology and Dorothy M Davis Heart and Lung Res Inst, OSUMC  
Columbus, OH  
Advisor: Federica Accornero, PhD

3:30 PM – 4:00 PM Coffee Break  
Admiral Room

4:00 PM – 5:30 PM Young Investigator competition – Senior Sci.  
(Sponsored by Cincinnati Children’s Hospital & Dr. Jeff Robbins)  
Regency Ballroom

CHAIR: Dr. Gary Lopaschuk, University of Alberta

Olympia Bikou, MD  
Cardiovascular Res Ctr, Icahn School of Med at Mount Sinai, New York, NY  
Advisor: Roger Hajjar, MD

Prabhakara Nagareddy, PhD  
Dept of Nutrition Sciences, UAB  
Birmingham, LA  
Advisor: W. Timothy Garvey, MD

Erin Reineke, PhD  
Center for Bioenergetics, Houston Methodist Res Inst  
Houston, TX  
Advisor: Dale J Hamilton, MD, FACP

5:30 PM – 8:00 PM Welcome Reception & Posters  
Georgian Lounge and Admiral Ballroom  
(Appetizers and beverages will be available)  
(Poster session sponsored by Scintica Instrumentation Inc).
**Wednesday May 30, 2018**

**Overview**

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<td>9:00 AM</td>
<td>Symposium 1: Cell death, cancer treatment &amp; cardiovascular disease</td>
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<tr>
<td>9:00 AM</td>
<td>Symposium 2: Proteomics &amp; proteotoxicity in the heart and impact of co-morbid illness</td>
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<td>Symposium 3: Autophagy: fundamentals to cardiovascular disease</td>
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<td>Symposium 4: Rare diseases, cardiomyopathy and heart failure</td>
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<tr>
<td>12:30 PM</td>
<td>ISHR – NAS Council Meeting</td>
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<td>12:30 PM</td>
<td>Lunch &amp; Posters Session II</td>
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<td>Symposium 5: Cardiovascular diseases in females</td>
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<td>Symposium 6: Evolving trends in cardiac metabolism</td>
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<td>Symposium 7: Cardiac hypertrophy and heart failure</td>
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<td>Symposium 8: New advances in stem cell and gene therapy</td>
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<td>Posters &amp; Reception – Session II</td>
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7:00 AM – 8:00 AM **Breakfast**  
Admiral Room

8:00 AM – 5:00 PM **Registration**  
Registration Desk

8:00 AM – 9:00 AM **Plenary Lecture “The Sarrazin Award Lecture”**  
Sandra Davidge (University of Alberta)  
"Impact of pregnancy complications on maternal and offspring cardiovascular health" (Sponsored by the Canadian Physiological Society)

9:00 AM – 10:30 AM
**Symposium 1: Cell death, cancer treatment & cardiovascular disease**  
Imperial Ballroom

**CHAIRS:** Ian Dixon (University of Manitoba), Sayantan Jana (University of Alberta)

1. Novel small molecule inhibitors protect against doxorubicin-induced cardiomyopathy  
(Rick Kitsis, Einstein)
2. Cell death signaling pathways in the heart: doxorubicin (Lorrie Kirshenbaum, University of Manitoba and St Boniface)
3. E2F6 serves to protect myocardium in drug induced injury (Balwant Tuana, University of Ottawa)

4. Vitamin C mitigation of oxidative/nitrosative stress in doxorubicin-induced cardiomyopathy (Pawan Singal, University of Manitoba and St Boniface Hospital)

5. **Oral Abstract**: Validation of a GWAS–identified variant in RARG as a risk predictor of doxorubicin–induced cardiotoxicity using patient-derived hiPSC–CMs (Paul Burridge, Northwestern University)

9:00 AM – 10:30 AM  
**Symposium 2: Proteomics and proteotoxicity in the heart and impact of co-morbid illness**  
Regency Ballroom

**CHAIRS**: Monte Willis (Duke University), Sam Das (Johns Hopkins)

1. Protein aggregates and proteotoxicity in the heart (Jeff Robbins, Cincinnati Children’s Hospital Medical Center)
2. The cardiac mitochondrial proteome (Peipei Ping, UCLA)
3. Cardiac amyloidosis: heart disease links in Alzheimer’s Disease (Federica del Monte, South Carolina)
4. Role of proteomics in studies of heart disease (J Van Eyk, Cedars-Sinai)
5. **Oral abstract**: Loss of the Prolyl Hydroxylase OGFOD1 In Vivo Leads to Metabolic Alterations (Leslie Kennedy, NIH)

10:30 AM – 11:00 AM  
**Coffee Break**  
Admiral Room

11:00 AM – 12:30 PM  
**Symposium 3: Autophagy: fundamentals to cardiovascular disease**  
Imperial Ballroom

**CHAIRS**: Aldrin Gomes (UC Davis), Charles Steenbergen (Johns Hopkins)

1. Cell death pathways in the heart: roads to cell dysfunction and death (Dale Abel, Iowa)
2. Mitochondrial Autophagy (Asa Gustafsson, University of California, San Diego)
3. Taking Heart: what we can learn from intra-operative biopsies of human heart (Roberta Gottlieb, Barbra Streisand Women’s Heart Center and Cedars-Sinai Heart Institute)
4. Autophagy and Cardiomyopathy (Thomas Pulinilkunnil, Dalhousie University)
5. **Oral abstract**: Cardiac insulin signaling is impaired concomitant with decreased branched-chain amino acid oxidation in human failing hearts (Liyan Zhang, University of Alberta)

11:00 AM – 12:30 PM  
**Symposium 4: Rare diseases, cardiomyopathy and heart failure**  
Regency Ballroom  
(Sponsored by Data Sciences of Cardiovascular Medicine at UCLA & Dr. Peipei Ping)

**CHAIRS**: Richard Vander Heide (Louisiana State), Hailey Jansen (University of Calgary)
1. Use of iPSCs to delineate the cardiac developmental defects associated with RAF1 mutations in Noonan Syndrome (Maria Kontaridis; Beth Israel Deaconess Medical Center, Boston, Massachusetts)
2. Cardiac defects in muscular dystrophy (Ghassan Bkaily, Université de Sherbrooke)
3. Mechanisms of Iron Overload and Cardiomyopathy in Thalassemia (Gary Sweeney, York University)
4. Sudden Cardiac Arrest in Infants as a potential cause of SIDS (Glen Tibbits, Simon Fraser University)
5. Oral abstract: Phosphodiesterase-5 is Elevated in Failing Single Ventricle Myocardium and Affects Cardiomyocyte Remodeling in vitro (Anastacia Garcia, UC Denver)

12:30 PM – 1:30 PM ISHR – NAS Council Meeting Britannia Room

12:30 PM – 2:00 PM Lunch and Posters Admiral Room & Georgian Lounge

2:00 pm – 3:30 pm Symposium 5: Cardiovascular diseases in females Imperial Ballroom

CHAIRS: Pieter de Tombe (Loyola University), Randi Parks (NIH)

1. Sex differences in mechanisms of cardioprotection (Elizabeth Murphy, NIH)
2. Arrhythmogenic vulnerability – estrogens, androgens and adipose (Lea Delbridge, University of Melbourne)
3. The Basis for Sex Differences in the Response to the Heart to Disease and Exercise (Leslie Leinwand, University of Colorado)
4. Sex, Redox Signaling and Myocardial Ischemia-reperfusion Injury (Mark Kohr, Johns Hopkins)
5. Oral abstract: Sex-specific acute beneficial effects of an estrogen receptor agonist added to cardioplegic solution in adult and aging mouse hearts (Anjali Ghimire, Dalhousie University)

2:00 PM – 3:30 PM Symposium 6: Evolving trends in cardiac metabolism Regency Ballroom

CHAIRS: Suresh Selvaraj Palaniyandi (Wayne State University), Kim Ho, University of Alberta

1. Acylcarnitines as proxies of dysregulated fatty acid metabolism versus actors in cardiomyopathies (Christine DeRosiers, Université de Montréal)
2. Transcriptional Circuits Controlling Mitochondrial Phenotype in the Developing and Diseased Heart (Dan Kelly, University of Pennsylvania)
3. Metabolic therapies and heart failure (Jason Dyck, University of Alberta)
4. Mitochondria remodeling in heart failure (Rong Tian, University of Washington)
5. Oral abstract: Caloric restriction limits fatty acid oxidation and improves cardiac function in heart failure associated with obesity (Qutuba Karwi, University of Alberta)

3:30 PM – 4:00 PM Coffee Break Admiral Room
Symposium 7: Cardiac hypertrophy and heart failure
Imperial Ballroom
(Sponsored by the Journal of Molecular and Cellular Cardiology)

CHAIRS: Ronglih Liao (Stanford), Anastacia Garcia (University of Colorado)

1. Renal innervation and heart failure (David Lefer, Louisiana State University)
2. Novel pathways for physiologic cardiac hypertrophy (Lynn Megeney, University of Ottawa)
3. CAM Kinase II and heart failure (Mark Anderson, Johns Hopkins)
4. Epigenetic regulation of heart failure (Joe Hill, UT Southwestern Medical Centre)
5. Oral abstract: Forkhead box protein O1 (FoxO1) is required for exercise-induced, but not PI3K-induced, physiological cardiac hypertrophy (Kate Weeks, Baker Heart and Diabetes Institute)

Symposium 8: New advances in stem cell and gene therapy
Regency Ballroom
(Sponsored by the Dalhousie Medical Research Foundation)

CHAIRS: Keith Brunt (Dalhousie University), Christie Aguiar (Dalhousie University)

1. Rejuvenation of diseased myocardium using stem cell based therapies (Ren-Ke Li, University of Toronto)
2. Induced Cardiac Progenitors Cells for Myocardial Repair (Tim Kamp, University of Wisconsin)
3. Cardiac progenitor cells and heart regeneration (Mark Sussman, San Diego State University)
4. Models of Atrial Fibrillation using Human Embryonic Stem Cell-Derived Atrial Tissue (Peter Backx, York University)
5. Oral abstract: Mitochondrial Dysfunction and Senescence of Human Cardiac Progenitor Cells Are Prevented by Hypoxic Culture (Dieter Kubli, San Diego State Univ)

5:30 PM – 7:00 PM Posters & Reception – Poster Session II
Georgian Lounge & Admiral Room
(Light appetizers and beverages will be available)

7:00 PM – 10:00 PM ECI Social (Ticket Required) – Sponsored by Temple University & Dr. W Koch
### Overview

**7:00 AM – 8:00 AM** Breakfast | Admiral Room  

**7:00 AM – 8:00 AM** Women in Science Breakfast | Regency Ballroom  

*(Sponsored by the Heart and Stroke Foundation of Nova Scotia)*

**Breakfast and discussion of important issues facing women in science today. All Early Career, Middle Career and Senior Career Women are invited to attend.**

**8:00 AM – 5:00 PM** Registration | Registration Desk

**8:00 AM – 8:05 AM** 2018 ISHR Distinguished Leader Award Presentation | Imperial Ballroom  

Recipient: Rick Moss (University of Wisconsin)
8:05 AM – 9:00 AM President’s Lecture

Jeff Molkentin (Cincinnati Children's Hospital Medical Center)

Title “Mechanism whereby cell therapy benefits the heart post MI injury”
(Sponsored by the International Society for Heart Research: International Section)

9:00 AM – 10:30 AM

Symposium 9: Contribution of the extracellular matrix to heart disease: beyond the structural support

(Sponsored by the CIHR Institute of Circulatory and Respiratory Health)

CHAIRS: Michael Czubryt (University of Manitoba), Manuel Rosa (UCLA)

1. Multi-functional role of the extracellular matrix in heart disease (Zam Kassiri, University of Alberta)
2. Defining the cardiac fibroblast (Michelle Tallquist, University of Hawaii)
3. Cardiac fibroblasts in heart failure (Burns Blaxall, Cincinnati Children's Hospital Medical Center)
4. Role of epigenetics in regulating cardiac hypertrophy and fibrosis in heart failure (Timothy McKinsey, University of Colorado)
5. Oral abstract: Epicardium-derived resident mesenchymal cells promote cardiac fibrosis (Pearl Quijada, Univ of Rochester Med Ctr)

9:00 AM – 10:30 AM

Symposium 10: Lipid metabolism and signaling in cardiovascular disease

(Sponsored by the CIHR Institute of Nutrition, Metabolism and Diabetes)

CHAIRS: Brian Rodrigues (University of British Columbia), Natasha Fillmore (NIH)

1. Lysophospholipid signaling and cardiovascular disease (Petra Kienesberger, Dalhousie University)
2. Dietary Modulation of Plasma Oxylipins in Conditions of Cardiovascular Disease (Grant Pierce, University of Manitoba)
3. Lipid droplet: Signaling hub for cardiac function (Guenter Haemmerle, University of Graz, Austria)
4. Temporal Control of Cardiac Metabolism: From Physiologic Significance to Pathologic Consequence (Martin Young, University of Alabama)
5. Oral abstract: Magnesium Supplementation Improves Cardiac Mitochondrial and Diastolic Function (Man Liu, Univ of Minnesota)

10:30 AM – 10:45 AM Coffee Break

10:45 AM – 12:15 PM

Symposium 11: Mechano-electric coupling: altered mechanics & cardiac arrhythmias

(Sponsored by the Journal of Molecular and Cellular Cardiology)

CHAIRS: Litsa Kranias (University of Cincinnati), Eilidh MacDonald (Dalhousie University)
1. Mechano-electric coupling-induced arrhythmias in disease and with age (Alex Quinn, Dalhousie University)
2. Human atrial fibroblasts beyond fibrosis - voltage-dependent and mechanosensitive ion channels (Ursula Ravens, Freiburg)
3. The Role of Matrix-Myocyte Interactions In Cardiac Remodeling (Jen Davis, University of Washington)
4. Studying pathophysiological mechano-electrical interactions in human (Igor Efimov, University of Washington)
5. Oral abstract: The role of Natriuretic Peptide Receptor C in atrial electrophysiological remodelling in hypertensive heart disease to be decided from poster submissions (Hailey Jansen, University of Calgary)

10:45 AM – 12:15 PM
Symposium 12: Repair of the vulnerable heart Regency Ballroom

CHAIRS: Tim Kamp (University of Wisconsin), Ron Vagnozzi (Cincinnati Children’s Hospital)

1. Cardiac Repair & Injury (Steve Houser, Temple University)
2. Biophysical characteristics of human pluripotent stem cells (Jonathan Cordeiro, Masonic Medical Research Laboratory)
3. Biomaterials and Optimizing the Host Substrate Environment for Cardiac Repair (Erik Suuronen, University of Ottawa Heart Institute)
4. Building better scars (Peter Kohl, Freiburg)
5. Oral abstract: Inhibition of inflammatory serine proteases promotes vascularization and enhances cardiac repair after myocardial infarction (Mikhail Kolpakov, Temple University)

12:15 PM – 2:00 PM Lunch on your own Admiral Room

12:15 PM – 1:15 PM ISHR – NAS Council Meeting Britannia Room

2:00 PM – 3:30 PM

Symposium 13: Frailty and cardiovascular diseases in males and females Imperial Ballroom (Sponsored by the Dalhousie Medical Research Foundation)

CHAIRS: John Sapp (Dalhousie University), Alice Kane (Harvard University)

1. How frailty and sex affect heart disease risk and expression in ageing humans and in mice (Ken Rockwood, Dalhousie University)
2. Frailty and ventricular function: sex differences in the results of intervention studies (Susan Howlett; Dalhousie University)
3. Frailty modifies sinoatrial node and atrial structure and function in aging (Robert Rose, University of Calgary)
4. The influence of age on cardiovascular function in a large animal model (Katherine Dibb, University of Manchester)
5. **Oral abstract:** Chronic treatment with the ACE inhibitor enalapril attenuates the development of frailty, prevents cardiac hypertrophy and increases IL-10 levels in aging male C57BL/6 mice (Alice Kane, Dalhousie Univ/Harvard Univ)

2:00 PM – 3:30 PM
**Symposium 14: Myocardial contractile & regulatory proteins in heart disease**  
Regency Ballroom  
(Sponsored by the *Journal of Molecular and Cellular Cardiology*)

**CHAIRS:** Beata Wolska (University of Illinois at Chicago), Erik Blackwood (San Diego State University)

1. A Novel Therapeutic Strategy Targeting Cardiac Myosin to Treat Failing Hearts: Energizing with deoxy-ATP (Mike Regnier, University of Washington).
2. Put a Cap On It: The role of cardiac CapZ in the response to stress (WG Pyle, University of Guelph).
3. Walking a Thin Line: The role of thin filament proteins in cardiomyopathies and their therapeutic potential (JC Tardiff, University of Arizona).
4. Beta-arrestin in the sacomere/cytoskeletal network (David Ryba, University of Illinois at Chicago).
5. **Oral abstract:** Age-specific changes in myofibril mechanics in pediatric dilated cardiomyopathy (Kathleen Woulfe, UC Denver)

3:30 PM – 3:45 PM **Coffee Break**  
Admiral Room

3:45 PM – 5:15 PM
**Symposium 15: Cardiovascular diseases in neonates and children**  
Imperial Ballroom

**CHAIRS:** Scott Grandy (Dalhousie University), Kathleen Woulfe (University of Colorado)

1. Metabolic changes in the neonatal heart (Gary Lopaschuk, University of Alberta).
2. The pathogenesis of heart failure in children and adults: key differences and treatment implications (Kika Sucharov, University of Colorado).
3. Cardiovascular risk in the pediatric population: why maternal metabolic status matters (Jennifer Thompson, University of Calgary).
4. Defining the role of an epicardial specific miRNA in the growth and adaptation of the postnatal heart (Patrick Burgon, University of Ottawa Heart Institute).
5. **Oral abstract:** Determination of the Possible Role of Cardiac Troponin I Mutation in Sudden Cardiac Death in Infants Using Human Induced Pluripotent Stem Cell-derived Cardiomyocytes (Sanam Shafaattalab, Simon Fraser Univ)

3:45 PM – 5:15 PM
**Symposium 16: Ischemia & cardioprotection in hearts at risk**  
Regency Ballroom

**CHAIRS:** JF Legaré (Dalhousie University), Qutuba G. Karwi (University of Alberta)

1. Role of RIP3 and CaMKII in ischemia- and oxidative stress-induced myocardial damage (Rui-Ping Xiao, Institute of Molecular Medicine, Peking University).
2. A novel role for GRK2 in the ischemic Heart (Walter Koch, Temple University)
3. Role of iron in cardiovascular disease (Hossein Ardehali, Northwestern University)
4. Sulphhydration and the Diabetic Heart (John Calvert, Emory University)
5. Oral abstract: MCL-1 Couples Mitochondrial Dynamic Machinery to Mitochondrial Quality Control in Response to Stress (Alexandra Moyzis, UC San Diego)

5:45 or 6:05 PM Board Buses to Banquet (times are approximate) Lord Nelson Hotel & Suites

6:15 PM – 9:00 PM Reception, Lobster Banquet & Awards Ceremony Pier 21 Museum

9:00 PM – 11:45 PM Music by “Big Fish” and dancing Pier 21 Museum

9:00 PM – 11:45 PM Buses available for return to Lord Nelson Pier 21 Museum
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<td>Symposium 20: Heart diseases in pregnancy</td>
<td>Regency Ballroom</td>
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8:00 AM – 9:00 AM **Breakfast**  
**Georgian Room**

9:00 AM – 12:00 PM **Registration**  
**Registration Desk**

9:00 AM – 10:30 AM  
**Symposium 17: Cardiac excitation-contraction coupling & heart disease across the life course**  
*(Sponsored by the CIHR Institute of Circulatory and Respiratory Health)*  

**CHAIRS:** Crystal M. Ripplinger (University of California Davis), Hirad Feridooni (Dalhousie University)

1. Impact of CAM-Kinase dependent phosphorylation of the RyR on cardiac contraction (Don Bers, UC Davis)
2. Myocardial calcium handling in diastolic dysfunction (William Louch, University of Oslo)
3. New roles for junctophilin in the failing heart (Xander Wehr, Baylor)
4. Molecular mechanisms of RyR activation and regulation (SR Wayne Chen, University of Calgary)
5. **Oral abstract:** Dual optical mapping of the innervated mouse heart reveals unique electrophysiological responses during fight-or-flight (Lianguo Wang, UC Davis)

9:00 AM – 10:30 AM  
**Symposium 18: Epigenetics and lineage commitment**  
*(Sponsored by the Dalhousie Medical Research Foundation)*  

**CHAIRS:** Sanjiv Dhingra (University of Manitoba), Brittney Allen (Dalhousie University)

1. Molecular mechanisms regulating cardiac progenitor cell proliferation and differentiation (Kishore Pasumarthi, Dalhousie University)
2. Origin of cardiac lineages: insights for regeneration (Reza Ardehali, UCLA)
3. Chromatin structure in the normal and failing heart (Thomas Vondriska, UCLA)
4. Proteomic analyses of chromatin in heart failure (Sarah Franklin, University of Utah)
5. **Oral abstract:** P2Y14 nucleotide receptor defines a novel cardiac progenitor subpopulation with enhanced functional responses (Farid Khalafalla, San Diego State Univ)

10:30 AM – 11:00 AM **Coffee Break**

**Georgian Room**

11:00 AM – 12:30 PM **Symposium 19: Mitochondria in hearts at risk**

**Imperial Ballroom**

**CHAIRS:** Chris Baines (University of Missouri-Columbia), Matt Stoyek (Dalhousie)

1. Mitochondrial dysfunction in heart disease (Brian O’Rourke, Johns Hopkins)
2. New insights into the molecular regulation of mitochondrial calcium exchange (John Elrod, Temple University School of Medicine)
3. Imaging mitochondrial deformation during the cardiac cycle (Eva Rog-Zielinska, Freiburg)
4. MicroRNAs and mitochondrial function (Sam Das, Johns Hopkins)
5. **Oral abstract:** The E3 Ubiquitin Ligase Parkin Regulates Mitophagy from the Nucleus (Sarah Shires, UC San Diego)

**Symposium 20: Heart diseases in pregnancy**

**Regency Ballroom**

**CHAIRS:** Sarah Wells (Dalhousie University), Rushita Bagchi (University of Colorado)

1. Regulation of cardiac automaticity during pregnancy (Céline Fiset, Université de Montréal)
2. The impact of in utero particulate matter exposure on heart disease in adulthood (Loren Wold, Ohio State)
3. Cardiac pyruvate oxidation in pregnancy (Zolt Arany, University of Pennsylvania)
4. Cardiac remodeling in pregnancy: role of sex hormones (Mansoureh Eghbali, UCLA)
5. **Oral abstract:** Activation of Ca2+-dependent signaling causes postpartum cardiac hypertrophy in rats with gestational diabetes (Sanda Despa, University of Kentucky)

12:30 PM **CLOSING**
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Imperial Ballroom</th>
<th>Regency Ballroom</th>
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</thead>
<tbody>
<tr>
<td>May 30, 2018</td>
<td>9:00 am-10:30 am</td>
<td>Symposium 1  Cell death, cancer treatment &amp; cardiovascular disease</td>
<td>Symposium 2  Proteomics and proteotoxicity in the heart and impact of co-morbid illness</td>
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<td>11:00 am-12:30 pm</td>
<td>Symposium 3  Autophagy: fundamentals to cardiovascular disease</td>
<td>Symposium 4  Rare diseases, cardiomyopathy and heart failure</td>
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<tr>
<td></td>
<td>2:00 pm-3:30 pm</td>
<td>Symposium 5  Cardiovascular diseases in females</td>
<td>Symposium 6  Evolving trends in cardiac metabolism</td>
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<td>4:00 pm-5:30 pm</td>
<td>Symposium 7  Cardiac hypertrophy and heart failure</td>
<td>Symposium 8  New advances in stem cell and gene therapy</td>
</tr>
<tr>
<td>May 31, 2018</td>
<td>9:00 am-10:30 am</td>
<td>Symposium 9  Contribution of the extracellular matrix to heart disease: beyond the structural support</td>
<td>Symposium 10 Lipid Metabolism and Signaling in Cardiovascular Disease</td>
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<td></td>
<td>11:00 am-12:30 pm</td>
<td>Symposium 11  Mechano-electric coupling (MEC): altered mechanics &amp; cardiac arrhythmias</td>
<td>Symposium 12 Repair of the vulnerable heart</td>
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<tr>
<td></td>
<td>2:00 pm-3:30 pm</td>
<td>Symposium 13  Frailty and cardiovascular diseases in males and females</td>
<td>Symposium 14 Myocardial contractile and regulatory proteins in heart disease</td>
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<tr>
<td></td>
<td>3:45 pm-5:15 pm</td>
<td>Symposium 15  Cardiovascular diseases in neonates and children</td>
<td>Symposium 16 Ischemia, cardioprotection and mitochondria in hearts at risk</td>
</tr>
<tr>
<td>June 1, 2018</td>
<td>9:00 am-10:30 am</td>
<td>Symposium 17  Cardiac excitation-contraction coupling and heart disease across the life course</td>
<td>Symposium 18 Epigenetics and lineage commitment</td>
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<tr>
<td></td>
<td>11:00 am-12:30 pm</td>
<td>Symposium 19  Mitochondria in hearts at risk</td>
<td>Symposium 20 Heart diseases in pregnancy</td>
</tr>
</tbody>
</table>
POSTER SESSIONS

Posters are located in the Georgian Lounge and Admiral Room

Poster Session 1 and Opening Reception
Tuesday, May 29  5:30-8:00 pm
Posters P1-01 to P1-59

Poster Session 2 and Lunch/Reception
Wednesday, May 30   12:30-2:00 and 5:30-7:00 pm
Posters P2-01 to P2-58

Presenting author underlined

P1-01
Functional Cardiac Fibroblasts Derived from Human Pluripotent Stem Cells via Second Heart Field Progenitors
Jianhua Zhang¹, Ran Tao¹, Katherine Campbell², Juliana Carvalho³, Edward Ruiz¹, Gina Kim¹, Eric Schmuck¹, Amish Raval¹, James Thomson⁴, Todd Herron², Jose Jalife² and Timothy Kamp¹
¹University of Wisconsin - Madison, Madison, WI, USA. ²University of Michigan, Ann Arbor, MI, USA. ³Catholic University of Brasilia, Catholic University of Brasilia, Distrito Federal, Brazil. ⁴Morgridge Institute for Research, Madison, WI, USA

P1-02
Cardiac Progenitor Cell Fate in Embryonic and Neonatal Environments
Bingyan Wang¹, Alvin Muliono¹, Roberto Alvarez¹, Roberto Sacripanti² and Mark Sussman¹
¹San Diego State University, San Diego, California, USA. ²UMass Boston, Boston, Massachusetts, USA

P1-03
Cardiomyocyte Biology Revealed by Fluorescence Ubiquitination-based Cell Cycle Indicators (FUCCI)
Roberto Alvarez Jr¹, Pearl Quijada², Bingyan Wang¹, Maya Shaitrit¹, Thi Ho¹, Natalie Gude¹ and Mark Sussman¹
¹San Diego State University, San Diego, CA, USA. ²University of Rochester, Rochester, NY, USA

P1-04
Combined methylglyoxal scavenger and collagen hydrogel therapy improves function of the infarcted heart
Cagla Eren Cimenci, Nick Blackburn, Manuel Ahumada, Brian McNeill, Emilio I. Alarcon and Erik J. Suuronen
University of Ottawa Heart Institute, Ottawa, Ontario, Canada

P1-05
An injectable CCN1-collagen matrix for cardiac cell support and treatment of myocardial infarction
Brian McNeill, Branka Vulesevic, Nick Blackburn, Marc Ruel and Erik Suuronen
University of Ottawa Heart Institute, Ottawa, Ontario, Canada
P1-06
CardioClusters: Enhancing Stem Cell Engraftment and Myocardial Repair
Megan Monsanto, Bingyan Wang, Zach Ehrenberg, Roberto Alvarez and Mark Sussman
San Diego State University, San Diego, California, USA

P1-07
Regulation of transplanted cell homing by FGF-1 and PDGF-B after doxorubicin myocardial injury
Mark Baguma-Nibasheka, Tiam Feridooni, Feixiong Zhang and Kishore Pasumarthi
Dalhousie University, Halifax, Nova Scotia, Canada

P1-08
ARA290, a small non-hematopoietic peptide derived from erythropoietin, prolongs healthspan and attenuates age-associated declines in cardiac function
Alay Nanavati, Jack Moen, Jessie Axsom, Melissa Krawczyk, Natalia Petrashevskaya, Max Beyman, Christopher Ramirez, Irene Alfaras, Sarah Mitchell, Michel Bernier, Christopher Morrell, Steven Sollott, Magdalena Juhaszova, Rafael deCabo and Edward Lakatta
National Institute on Aging, Baltimore, MD, USA

P1-09
Binding of calcium and magnesium to cardiac Troponin C assessed through Isothermal Titration Calorimetry (ITC)
Kaveh Rayani1, Eva Muñoz2, Anne Spuches3, Filip Van Petegem4 and Glen Tibbits1,5
1Simon Fraser University, Vancouver, British Columbia, Canada. 2Affinimeter, Santiago de Compostela, Spain. 3East Carolina University, Greenville, North Carolina, USA. 4University of British Columbia, Vancouver, British Columbia, Canada. 5British Columbia Children’s Research Institute, Vancouver, British Columbia, Canada

P1-10
The Arrhythmogenic Impact of the Familial Hypertrophic Cardiomyopathy-related Cardiac Troponin T mutation I79N
Alison Yueh Li1, Sanam Shafaattalab1, Eric Lin1, Bo Liang1, Marvin Gunawan1, Kaveh Rayani1, Tiffany Barszczewski1, Jonathan Davis2 and Glen F Tibbits1,3,4
1Simon Fraser University, Vancouver, British Columbia, Canada. 2The Ohio State University, Columbus, OH, USA. 3Child & Family Research Institute, Vancouver, British Columbia, Canada. 4University of British Columbia, Vancouver, British Columbia, Canada

P1-11
Molecular defects in cardiac myofilament Ca2+- regulation due to cardiomyopathy-linked mutations can be reversed by small molecules binding to troponin
Alice Sheehan1, Andrew Messer1, Mary Papadaki1, Afnan Choudhry1, Vladimír Křen2, David Biedermann3, Brian Blagg5 and Anuj Kandelwahl3
1Imperial College London, London, United Kingdom. 2Institute of Microbiology of the Czech Academy of Sciences, Prague, Czech Republic. 3University of Kansas, Kansas City, KU, USA
Physical contact between vascular endothelial and smooth muscle cells mediates increase in intracellular calcium.
Nadia Abou Abdallah, Ghada Hassan, Yanick Simon, Danielle Jacques and Ghassan Bkaily
University of Sherbrooke, Sherbrooke, Quebec, Canada

Mechanically-Induced Ventricular Arrhythmias during Acute Regional Ischemia
Peter A Baumeister, Tarek Lawen, Sara A Rafferty, Behzad Taeb, Ilija Uzelac, Flavio H Fenton and T. Alexander Quinn
Dalhousie University, Halifax, NS, Canada. Georgia Institute of Technology, Atlanta, Georgia, USA

A thermoneutral environment abolishes age-associated reduction in heart rate variability in mice
Jessie Axsom, Alay Nanavati, Carolyn Rutishauser, Elise Bonin, Jack Moen and Edward Lakatta
National Institute on Aging, Baltimore, Maryland, USA. Yale University, New Haven, CT, USA

Dual optical mapping of the innervated mouse heart reveals unique electrophysiological responses during fight-or-flight
Lianguo Wang, Stefano Morotti, Srinivas Tapa, Samantha D. Francis Stuart, Yanyan Jiang, Donald M Bers, Eleonora Grandi and Crystal M Ripplinger
University of California, Davis, CA, USA

Regional cardiac sympathetic denervation produces supersensitivity of action potential and Ca\(^{2+}\) handling properties to β-adrenergic stimulation
Srinivas Tapa, Lianguo Wang, Samantha Francis Stuart and Crystal Ripplinger
University of California, Davis, Davis, CA, USA

Age-related changes in sympathetic responsiveness and cardiac electrophysiology
Samantha Francis Stuart, Lianguo Wang, William Woodard, Beth Habecker and Crystal Ripplinger
University of California, Davis, Davis, CA, USA. Oregon Health and Science University, Portland, OR, USA

The role of Natriuretic Peptide Receptor C in atrial electrophysiological remodelling in hypertensive heart disease
Hailey J. Jansen, Emmanuel E. Egom, Jari M. Tuomi, Sara A. Rafferty and Robert A. Rose
University of Calgary, Calgary, AB, Canada. Dalhousie University, Halifax, NS, Canada. Western University, London, ON, Canada

Pathophysiology of R222Q mutant SCN5a channels
Marianne Wauchop¹, Mark Gagliardi², Naimeh Rafatian³, Stéphane Massé⁴, Patrick Lai⁵, Kelvin Chan Tung⁶, Stephanie Protze⁷, Erika Wang⁵,⁶, Milica Radisic⁵,⁶, Gordon Keller², Kumar Nanthakumar⁴ and Peter Backx⁷,³,¹

¹Department of Physiology, University of Toronto, Toronto, On, Canada. ²McEwen Centre for Regenerative Medicine, University Health Network, Toronto, On, Canada. ³Division of Cardiology and the Peter Munk Cardiac Centre, University Health Network, Toronto, On, Canada. ⁴Division of Cardiology, University Health Network, Toronto, On, Canada. ⁵Institute of Biomaterials and Biomedical Engineering, University of Toronto, Toronto, On, Canada. ⁶Department of Chemical Engineering and Applied Chemistry, University of Toronto, Toronto, On, Canada. ⁷Department of Biology, York University, Toronto, On, Canada

P1-21
Atrial arrhythmias and adverse atrial remodeling induced by exercise requires soluble tumor necrosis factor alpha (TNFα) derived from atrial myocardium

Robert Lakin¹, Nazari Polidovitch², Sibao Yang³, Camilo Guzman², Xiaodong Gao² and Peter Backx²

¹University of Toronto, Toronto, Canada. ²York University, Toronto, Canada. ³Cardiovascular Department of China-Japan Union Hospital, Changchun, China

P1-22
Effects of ageing on cardiac function in zebrafish

Matthew Stoyek and T Alexander Quinn

Dalhousie University, Halifax, Canada

P1-23
Mechanical Determinants of the Chronotropic Response to Sinoatrial Stretch

Eilidh MacDonald and T Alexander Quinn

Dalhousie University, Halifax, Nova Scotia, Canada

P1-24
Deficiency of miR-1954 promotes cardiac fibrosis

Sudhiranjan Gupta and Valorie Chiasson

Texas A&M University, Temple, TX, USA

P1-25
Control of cardiac fatty acid metabolism in infants with hypoplastic left heart syndrome

Sonia Rawat¹, Arata Fukushima², Liyan Zhang¹, Alda Huqi³, Victoria Lam¹, Tariq Altamimi¹, Cory Wagg¹, Renan Petinelli⁴, Khushmol Dhaliwal¹, Lisa Hornberger¹, Paul Kantor¹, Ivan Rebeyka¹ and Gary Lopaschuk¹

¹Cardiovascular Research Centre, University of Alberta, Edmonton, Alberta, Canada. ²Department of Cardiovascular Medicine, Hokkaido University Graduate School of Medicine, Sapporo, Hokkaido, Japan. ³Cardio Thoracic and Vascular Department, Pisa, Tuscany, Italy. ⁴State University of Londrina, Londrina, Paraná, Brazil
P1-26
Activation of Ca\(^{2+}\)-dependent signaling causes postpartum cardiac hypertrophy in rats with gestational diabetes
Amanda Hoskins, Nirmal Verma, Florin Despa and Sanda Despa
University of Kentucky, Lexington, KY, USA

P1-27
Successful Identification of Cardiac Troponin Calcium Sensitizers Using a Combination of Virtual Screening and ROC Analysis of Known Troponin C Binders
Melanie Aprahamian, Svetlana Tikunova, Jonathan Davis and Steffen Lindert
Ohio State University, Columbus, USA

P1-28
Inhibition of inflammatory serine proteases promotes vascularization and enhances cardiac repair after myocardial infarction
Mikhail Kolpakov\(^1\), Bahman Hooshdaran\(^1\), Xinji Guo\(^1\), Khadija Rafiq\(^2\), Liudmila Vlasenko\(^1\), Yulia Bashkirova\(^1\), Tao Wang\(^1\), Zhao Qi\(^1\), Venkata Garikipati\(^1\), Raj Kishore\(^1\) and Abdelkarim Sabri\(^1\)
\(^1\)Temple University, Philadelphia, Pennsylvania, USA. \(^2\)Thomas Jefferson University, Philadelphia, PA, USA

P1-29
PTP1B regulates the thyroid hormone responsiveness of \(\beta\)-MHC expression in cardiac hypertrophy
Benoit Boivin
SUNY Polytechnic Institute, Albany, New York, USA. Montreal Heart Institute, Montreal, Quebec, Canada

P1-30
Forkhead box protein O1 (FoxO1) is required for exercise-induced, but not PI3K-induced, physiological cardiac hypertrophy
Kate Weeks, Helen Kiriazis, Yow Keat Tham, Bianca Bernardo, Nelly Cemerlang and Julie McMullen
Baker Heart and Diabetes Institute, Melbourne, VIC, Australia

P1-31
Psychosocial stress unmasks latent doxorubicin-induced cardiotoxicity
Marianne Grant, Maria Razzoli, Alessandro Bartolomucci and Beshay Zordoky
University of Minnesota, Minneapolis, Minnesota, USA

P1-32
hRelaxin-2 fusion protein treatment prevents isoproterenol-induced hypertrophy and fibrosis
Junhui Sun\(^1\), Weidong Hao\(^2\), Natasha Fillmore\(^3\), Michele Allen\(^1\), Audrey Noguchi\(^3\), Danielle Spinger\(^1\), Karen Keeran\(^1\), Clevenger Randy\(^1\), Zu-Xi Yu\(^1\), Sotirios Karathanasis\(^3\), Jane Osbourn\(^2\), Jill Walker\(^2\) and Elizabeth Murphy\(^1\)
\(^1\)NHLBI/NIH, Bethesda, Maryland, USA. \(^2\)Biosuperiors, MedImmune, Gaithersburg, MD, USA. \(^3\)CVRM IMED, MedImmune, Gaithersburg, MD, USA
P1-34

**Pregnancy-Induced Remodeling of Heart Valves**
Sarah Wells¹, Caitlin Pierlot¹, Michael Lee¹ and Michael Sacks²

¹Dalhousie University, Halifax, Nova Scotia, Canada. ²University of Texas at Austin, Austin, USA

P1-35

**Prevalence of High Blood Pressure among Civil Servants in the City Of Winnipeg**
Jose Alejandro Austria¹, Jo-Anne Gilchrist¹, Brian Penner² and Grant Pierce¹,³

¹Institute of Cardiovascular Sciences, St. Boniface Hospital Research Centre, Winnipeg, Manitoba, Canada. ²Internal Medicine, University Manitoba, Winnipeg, Manitoba, Canada. ³Departments of Physiology and Pathophysiology University of Manitoba, Winnipeg, Manitoba, Canada

P1-36

**Sex-dependent regulation of autophagy by midkine in pediatric dilated cardiomyopathy**
Kathleen Woulfe¹, Cortney Wilson¹, Xuan Jiang¹, Mark Jeong¹, Shelley Miyamoto¹,², Brian Stauffer¹,³ and Carmen Sucharov¹

¹University of Colorado Denver, Aurora, CO, USA. ²Children’s Hospital of Colorado, Aurora, CO, USA. ³Denver Health and Hospital Authority, Denver, CO, USA

P1-37

**Phosphodiesterase-5 is Elevated in Failing Single Ventricle Myocardium and Affects Cardiomyocyte Remodeling in vitro**
Anastacia Garcia¹,², Stephanie Nakano¹,², Anis Karimpour-Fard¹, Brian Stauffer³,¹, Carmen Sucharov¹ and Shelley Miyamoto¹,²

¹University of Colorado Anschutz medical Campus, AURORA, CO, USA. ²Children’s Hospital Colorado, Aurora, CO, USA. ³Denver Health and Hospital Authority, Denver, CO, USA

P1-40

**Oxidized phosphatidylcholine induces cardiomyocyte cell death in ischemia/reperfusion injury through ferroptosis**
Aleksandra Stamenkovic¹,², Kimberley O’Hara¹,², David Nelson¹,², Thane Maddaford¹, Andrea Edel¹, Grant Pierce¹,² and Amir Ravandi¹,³

¹Institute of Cardiovascular Sciences, St. Boniface Hospital, Winnipeg, Canada. ²Department of Physiology and Pathophysiology, University of Manitoba, Winnipeg, Canada. ³Departments of Physiology and Pathophysiology and Internal Medicine, University of Manitoba, Winnipeg, Canada

P1-41

**The effects of dietary flaxseed on cardiac function in rats after myocardial infarction**
Mihir Parikh¹,²,³, Pema Raj¹,², Alex Austria¹,²,³, Liping Yu⁴, Thomas Netticadan¹,² and Grant Pierce¹,²,³

¹Department of Physiology and Pathophysiology, Faculty of Health Sciences, University of Manitoba, Winnipeg, Manitoba, Canada. ²Canadian Centre for Agri-food Research in Health and Medicine (CCARM), Winnipeg, Manitoba, Canada. ³Institute of Cardiovascular Sciences, St. Boniface Hospital Albrechtsen Research Centre, Winnipeg, Manitoba, Canada
P1-42
A knock-in mutation at a site of S-nitrosylation on TRIM72 is cardioprotective and improves insulin sensitivity
Natasha Fillmore, Junhui Sun, Jennifer Boylston, Audrey Noguchi and Elizabeth Murphy
National Institutes of Health, Bethesda, MD, USA

P1-43
Pharmacologic ATF6 Activation Confers Global Protection in Widespread Disease Models by Reprogramming Cellular Proteostasis
Erik Blackwood¹, Khalid Azizi¹, Donna Thuerauf¹, Ryan Paxman¹, Lars Plate², Jeffery Kelly², Rockland Wiseman² and Christopher Glembotski¹
¹San Diego State University, San Diego, CA, USA. ²The Scripps Research Institute, La Jolla, CA, USA

P1-44
Matricellular proteins Nov and Wisp1 in aging and myocardial infarction
Danielle Giroux¹,², Brian McNeill¹ and Erik Suuronen¹
¹University of Ottawa Heart Institute, Ottawa, Canada. ²Department of Cellular and Molecular Medicine, University of Ottawa, Ottawa, Canada

P1-45
Sex-specific acute beneficial effects of an estrogen receptor agonist added to cardioplegic solution in adult and aging mouse hearts
Anjali Ghimire and Susan Howlett
Dalhousie University, Halifax, Nova Scotia, Canada

P1-46
Remote ischemic preconditioning via incomplete vascular occlusion
Nathan Robbins, Akiva Kirschner, Michelle Nieman, Martha Dua-Awereh, Sheryl Koch, John Lorenz and Jack Rubinstein
University of Cincinnati, Cincinnati, Ohio, USA

P1-47
Mitochondrial DNA (mtDNA) damage in diabetic heart: 4-hydroxy-2-nonenal (4HNE) inhibits mtDNA repair enzyme, 8-oxoguanine glycosylase 1
Suresh Palaniyandi¹,², Mandar Deshpande¹ and Guodong Pan¹
¹Henry Ford Health System, Detroit, MI, USA. ²Department of Physiology, Wayne State University, Detroit, MI, USA

P1-48
Magnesium Supplementation Improves Cardiac Mitochondrial and Diastolic Function
Man Liu¹, Euy-Myoung Jeong², An Xie¹, Eui Young So³, Guangbin Shi³, Go Eun Jeong⁴, Anyu Zhou² and Samuel C. Dudley Jr.¹
¹University of Minnesota, Minneapolis, MN, USA. ²Brown University and Lifespan Rhode Island Hospital, Providence, RI, USA. ³Lifespan Rhode Island Hospital, Providence, RI, USA. ⁴Brown University, Providence,
Caloric restriction limits fatty acid oxidation and improves cardiac function in heart failure associated with obesity


Mazankowski Alberta Heart Institute University of Alberta, Edmonton, Alberta, Canada

Epigenetic regulation of cardiometabolic disease by HDAC-BET association

Rushita Bagchi1,2, Bradley Ferguson1, Matthew Stratton1,2, Tianjing Hu1,2, Maria Cavasin1,2, Ying-Hsi Lin1,2, Kunhua Song1,2, Philipp Scherer3, Sheila Collins4, Edward Seto5 and Timothy McKinsey1,2

1University of Colorado Anschutz Medical Campus, Aurora, CO, USA. 2Consortium for Fibrosis Research & Translation, University of Colorado Anschutz Medical Campus, Aurora, CO, USA. 3Touchstone Diabetes Center, Department of Internal Medicine, University of Texas Southwestern Medical Center, Dallas, TX, USA. 4Integrative Metabolism Program, Sanford Burnham Presbys Medical Discovery Institute at Lake Nona, Orlando, FL, USA. 5George Washington University Cancer Center, Washington, DC, USA

G Protein-coupled receptor kinase 2 impairs fatty acid metabolism in the failing heart through novel mechanisms

Jessica M Pfleger, Polina Gross, Jaslyn Johnson, Erhe Gao, Steven R Houser and Walter J Koch

Temple University, Philadelphia, PA, USA

MCL-1 Couples Mitochondrial Dynamic Machinery to Mitochondrial Quality Control in Response to Stress

Alexandra Moyzis, Leonardo Leon, Rita Najor and Asa Gustafsson

University of California, San Diego, La Jolla, CA, USA

The E3 Ubiquitin Ligase Parkin Regulates Mitophagy from the Nucleus

Sarah Shires, Rita Najor, Melissa Cortez and Åsa Gustafsson

University of California, San Diego, San Diego, CA, USA

Protein S-nitrosylation inhibits respiration in the failing heart

Emma Radcliffe1, Junhui Sun2, Angel Aponte3, David Eisner1, Micheal Murphy3, Gina Galli1, Elizabeth Murphy3 and Andrew Trafford1

1University of Manchester, Manchester, United Kingdom. 2National Heart, Lung and Blood Institute, National Institute of Health, Bethesda, Maryland, USA. 3Cambridge University, Cambridge, United Kingdom
Coupling to Gq Signaling Is Required for Cardioprotection by an Alpha-1A-Adrenergic Receptor Agonist
Bat-Erdene Myagmar1,2,3, Taylor Ismaili4, Philip Swigart1, Anaha Raghunathan4, Anthony Baker1,2,3, Sunil Sahdeo4, Jonathan Blevitt4, Marcos Milla5,4 and Paul Simpson1,2,3
1VA Medical Center, San Francisco, CA, USA. 2UCSF, San Francisco, CA, USA. 3NCIRE, San Francisco, CA, USA. 4Janssen Research & Development, San Diego, CA, USA. 5Synthorx, Inc., La Jolla, CA, USA

Exogenous CXCL4 Infusion Inhibits Macrophage Phagocytosis by Limiting CD36 Signaling to Enhance Post-myocardial Infarction Cardiac Dilation
Merry Lindsey1,2, Mira Jung1, Andriy Yabluchanskiy3, Presley Cannon1, Rugmani Iyer1, Elizabeth Flynn1, Kristine DeLeon-Pennell1,2 and Yonggang Ma1
1Mississippi Center for Heart Research, Department of Physiology and Biophysics, University of Mississippi Medical Center, Jackson, Mississippi, USA. 2Research Service, G.V. (Sonny) Montgomery Veterans Affairs Medical Center, Jackson, Mississippi, USA. 3Translational Geroscience Laboratory, Reynolds Oklahoma Center on Aging, Department of Geriatric Medicine, University of Oklahoma Health Science Center, Oklahoma City, Oklahoma, USA

Epicardium-derived resident mesenchymal cells promote cardiac fibrosis
Pearl Quijada, Michael Trembley, Adwiteeya Misra, Ryan Burke, Janet Lighthouse, Lissette Velasquez, Deanne Mickelsen, Ronald Dirkx, Brian Kang and Eric Small
University of Rochester Medical Center, Rochester, NY, USA

Endoplasmic Reticulum Stress Promotes Inflammation Through iNOS-Regulated Toll-Like Receptor 2 (TLR 2) in Doxorubicin-Induced Cardiomyopathy
Ashim Bagchi, Vandana Vashisht, Gauri Akolkar, Alexandra Zimmer and Pawan Singal
Institute of Cardiovascular Sciences, St. Boniface Hospital Albrechtsen Research Centre, Department of Physiology and Pathophysiology, Rady Faculty of Health Sciences, University of Manitoba, Winnipeg, MB, Canada

Antioxidant Enzymes Exhibit Resistance Against Oxidative Stress Regulation
Jessica Lee1,2, Bilal Mirza1,2, Jie Wang1,2, Howard Choi1,2, Dominic C.M. Ng1,2, Rajasekaran Namakkal Soorapan3,4,5, Peipei Ping1,6 and Ding Wang1,2
1NIH BD2K Center of Excellence at UCLA, Los Angeles, CA, USA. 2Physiology, David Geffen School of Medicine at UCLA, Los Angeles, CA, USA. 3Department of Pathology, University of Alabama at Birmingham, Birmingham, AL, USA. 4Cardiovascular Medicine, University of Utah School of Medicine, Salt Lake City, UT, USA. 5Center for Free Radical Biology, University of Alabama at Birmingham, Birmingham, AL, USA. 6Physiology, Medicine/Cardiology, and Bioinformatics, David Geffen School of Medicine at UCLA, Los Angeles, CA, USA
P2-01
iPSC BASED MULTISYSTEMIC-DISEASE MODELS FROM PATIENTS OF MITOCHONDRIAL DISORDER DISPLAY VARIED DISEASE PROGRESSION IN DIFFERENT CELL TYPES
Glen Lester Sequiera1,2, Niketa Sareen1,2, Mohamad Reza Aghanoori3,4, Sandeep Mangat1, Prince Sidhu1, Ejlal Abu-El Rub1,2, Meenal Moudgil1, Paul Fernyhough3,4, Cheryl Rockman-Greenberg5 and Sanjiv Dhingra1,2
1Institute of Cardiovascular Sciences, St. Boniface General Hospital Albrechtsen Research Centre, Winnipeg, Manitoba, Canada. 2Dept of Physiology, University of Manitoba, Winnipeg, Manitoba, Canada. 3Division of Neurodegenerative Disorders, St. Boniface General Hospital Albrechtsen Research Centre, Winnipeg, Manitoba, Canada. 4Dept of Pharmacology and Therapeutics University of Manitoba, Winnipeg, Manitoba, Canada. 5Department of Pediatrics and Child Health, Winnipeg, Manitoba, Canada

P2-02
Mitochondrial Dysfunction and Senescence of Human Cardiac Progenitor Cells Are Prevented by Hypoxic Culture
Dieter Kubli, Kelli Korski and Mark Sussman
San Diego State University Research Foundation, San Diego, CA, USA

P2-03
Non-toxic chemically crosslinked collagen hydrogels for cell delivery
Justina Pupkaite1,2, May Griffith3, Jons Hilborn4, Erik Suuronen1 and Ayan Samanta4
1University of Ottawa Heart Institute, Ottawa, Canada. 2Linkoping University, Linkoping, Sweden. 3University of Montreal, Montreal, Canada. 4Uppsala University, Uppsala, Sweden

P2-04
Injection of a recombinant human collagen hydrogel improves cardiac function and reduces pathological remodeling post myocardial infarction
Sarah McLaughlin, Brian McNeill, James Podrebarac, Katsuhiro Hosoyama, Richard Seymour, Wenbin Liang, Marc Ruel, Erik Suuronen and Emilio Alarcon
University of Ottawa Heart Institute, Ottawa, Ontario, Canada

P2-05
Therapeutic modulation of heme metabolism post-myocardial infarction improves cardiac remodeling, ventricular function and survival
Ashley L. Eadie1, Mathew J. Platt2, Allison Titus1, Meagan London1, Jeremy A. Simpson2 and Keith R. Brunt1
1Dalhousie Medicine New Brunswick, Dalhousie University, Saint John, NB, Canada. 2University of Guelph, Guelph, ON, Canada

P2-06
Intrinsic Functional 3D Micro- and Macrovascular Structures for Cardiovascular Tissue Engineering
Mani Valarmathi
University of Alabama at Birmingham, Birmingham, AL, USA
P2-07
Age-specific changes in myofibril mechanics in pediatric dilated cardiomyopathy
Kathleen Woulfe1, Ying Lin1, Xiatao Li1, Jennifer Mahaffey1, Mary Sweet1, Matthew Taylor1, Luisa Mestroni1, Shelley Miyamoto1,2, Brian Stauffer1,3, Carmen Sucharov1 and Mark Jeong1
1University of Colorado Denver, Aurora, CO, USA. 2Children’s Hospital of Colorado, Aurora, CO, USA. 3Denver Health and Hospital Authority, Denver, CO, USA

P2-08
Isoflurane Anesthesia Masks Elevated Filling Pressures in Hypertensive Rats with Diastolic Dysfunction and Preserved Ejection Fraction: Comparison to Ketamine/Xylaxine Sedation
Christopher A. Zambataro, Brian S. Ferguson, Marcus P. Henze, Marc J. Evanchik and Carlos L. Del Rio
MyoKardia, South San Francisco, California, USA

P2-09
Phosphorylation of cMyBP-C modulates the activation-dependence of unloaded shortening velocity at low levels of Ca2+ activation
Jasmine Giles, Jitandrakumar Patel, Daniel Fitzsimons and Richard Moss
University of Wisconsin, Madison, WI, USA

P2-10
HCM-related W792R and T1075fs mutations of cMyBP-C accelerate cross-bridge cycling kinetics in murine skinned myocardium
Jitandrakumar Patel, Jasmine Giles, Daniel Fitzsimons and Richard Moss
University of Wisconsin, Madison, WI, USA

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MYH7 R403Q Mutation in Pigs: Altered Myofilament Dynamics, Hyper-Contractility, and Impaired Function In Vivo
Anu Anto1, Robert Anderson1, Marcus Henze1, Fiona Wong1, Marc Evanchik1, Ferhaan Ahmad2, Kristina Green1 and Carlos Del Rio1
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Matthew Stoyek1, Thomas Brand2 and T Alexander Quinn1
1Dalhousie University, Halifax, NS, Canada. 2Imperial College, London, United Kingdom

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Valerie Long1,2, Nabil El Khoury1,2, Simon Thibault1,2 and Celine Fiset1,2
1Montreal Heart Institute, Montreal, QC, Canada. 2Université de Montréal, Montreal, QC, Canada
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Katherina Alsina1, Mohit Hulsurkar2, Chunxia Yao3, Barbara Langer4, David Chiang5, Samuel Buxton2, Niels van der Sangen1, Albert Heck6,7, Dobromir Dobrev8 and Xander Wehrens2,9,3
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Stefan Heinze-Milne1, Mirna Gerges1 and Scott A. Grandy1,2
1School of Health and Human Performance, Dalhousie University, Halifax, Nova Scotia, Canada. 2Department of Pharmacology, Dalhousie University, Halifax, Nova Scotia, Canada

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1Université de Montréal, Montreal, Canada. 2Montreal Heart Institute, Montreal, Canada

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¹Simon Fraser University, Burnaby, BC, Canada. ²University of British Columbia, Vancouver, BC, Canada.
³Children’s Health Research Institute, Vancouver, BC, Canada

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¹Simon Fraser University, Burnaby, BC, Canada. ²University of British Columbia, Vancouver, BC, Canada

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Deokhwa Nam¹, Eunah Kim¹, Ashley Benham², Hyekyung Park¹, Benjamin Soibam³, George Taffet⁴, Jason Kaelber⁴, Ji Ho Suh⁴, Heinrich Taegtmeyer⁵, Mark Entman⁴ and Erin Reineke¹
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Lisa Dorn¹, Jop van Berlo², Chuan He³ and Federica Accornero¹
¹The Ohio State University, Columbus, OH, USA. ²University of Minnesota, Minneapolis, MN, USA. ³The University of Chicago, Chicago, IL, USA

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University of Wisconsin School of Medicine and Public Health, Madison, WI, USA
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Kim Ho1, Liyan Zhang1, Cory Wagg1, Keshav Gopal1, Jody Levasseur1, Teresa Leone2, Jason Dyck1, John Ussher1, Deborah Muoio3, Daniel Kelly2 and Gary Lopaschuk1
1University of Alberta, Edmonton, Canada. 2Penn Medicine: University of Pennsylvania Health System, Philadelphia, USA. 3Duke University, Durham, USA

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Traci Parry1, Francisco Altamirano2, Joe Hill2, Thomas Gillette2 and Monte Willis3,4
1University of North Carolina, Chapel Hill, NC, USA. 2University of Texas Southwestern, Dallas, TX, USA. 3University of North Carolina, Chapel Hill, NC, USA. 4University of Indiana School of Medicine, Indianapolis, IN, USA

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1University of California, Davis, Davis, CA, USA. 2San Diego State University, San Diego, CA, USA
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1Biosuperiors, Medimmune LLC, Gaithersburg, MD, USA. 2ADPE, Medimmune LLC, Gaithersburg, MD, USA. 3DMPK, Medimmune LLC, Gaithersburg, MD, USA. 4LAR, Medimmune LLC, Gaithersburg, MD, USA

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Shamim Chowdhury, Jillian Simon, David Ryba, Noorzahan Begum, Evangelia Kranias, Jil Tardiff, R. John Solaro and Beata Wolska
1University of Illinois at Chicago, Chicago, Illinois, USA. 2Bangabandhu Sheikh Mujib Medical University, Dhaka, Bangladesh. 3University of Cincinnati College of Medicine, Cincinnati, Ohio, USA. 4University of Arizona, Tuscon, Arizona, USA

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Yvanna Pantner, Yuuki Shimizu, Chad Nicholson, Lian Li, Lih-Shen Chin and John Calvert
1Department of Surgery, Division of Cardiothoracic Surgery, Carlyle Fraser Heart Center, Emory University School of Medicine, Atlanta, GA, USA. 2Department of Cardiology, Nagoya University Graduate School of Medicine, Nagoya, Japan. 3Department of Pharmacology, Emory University School of Medicine, Atlanta, GA, USA

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Tecnologico de Monterrey, Escuela de Medicina y Ciencias de la Salud, Monterrey, N.L., Mexico

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1Department of Pharmacology, Dalhousie University, Halifax, NS, Canada. 2School of Health and Human Performance, Dalhousie University, Halifax, NS, Canada. 3Department of Medicine (Geriatric Medicine,
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Tecnologico de Monterrey, Escuela de Medicina y Ciencias de la Salud, Monterrey, Nuevo León, Mexico

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Ahmed Abdel-Latif, Baskaran Athmanathan, Gopalkrishna Sreejit, Ashish Dhyani, Rahul Annabathula, Susan Smyth, Andrew Murphy and Prabhakara Nagareddy
1University of Kentucky, Lexington, KY, USA. 2University of Alabama, Birmingham, AL, USA. 3Baker IDI, Melbourne, Victoria, Australia. 4University of Alabama at Birmingham, Birmingham, AL, USA

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Leslie Kennedy, Junhui Sun, Angel Aponte, Danielle Springer, Marjan Gucek, Matthew Cockman, Peter Ratcliffe and Elizabeth Murphy
1NIH/NHLBI Cardiac Physiology Group, Bethesda, Maryland, USA. 2NIH/NHLBI Proteomics Core Facility, Bethesda, Maryland, USA. 3NIH/NHLBI Mouse Phenotyping Core Facility, Bethesda, Maryland, USA. 4Francis Crick Institute, London, United Kingdom

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Aleksandra Stamenkovic, Thane Maddaford, Amir Ravandi and Grant Pierce
1Institute of Cardiovascular Sciences, Albrechtsen Research Centre, St Boniface Hospital, Winnipeg, Manitoba, Canada. 2Department of Physiology and Pathophysiology, Max Rady College of Medicine, University of Manitoba, Winnipeg, Manitoba, Canada. 3Section of Cardiology, Max Rady College of Medicine, Winnipeg, Manitoba, Canada

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Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA

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Stephanie Legere, Ian Haidl, Jean-Francois Legare and Jean Marshall
1Dalhousie University, Halifax, Nova Scotia, Canada. 2Dalhousie University, Saint John, New Brunswick,
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Mahogany Oldham, Elizabeth Murphy and Georgios Amanakis
National Institutes of Health, NHLBI, Laboratory of Cardiac Physiology, Bethesda, MD, USA

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Mayte Gonzalez-Gomez¹,², Julia Zhu-Pawlowsky², Nicole Adriano¹, Danielle Giroux¹,², Brian McNeill¹, Cagla Eren-Cimenci¹,² and Erik J. Suuronen¹,²
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Hirad Feridooni¹, Robert Rose² and Susan Howlett¹,³
¹Dalhousie University, Halifax, NS, Canada. ²University of Calgary, Calgary, Alberta, Canada. ³Division of Geriatric Medicine, Halifax, NS, Canada

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Wei Tang¹, Amro Ilaiwy² and Monte Willis¹,³
¹University of North Carolina, Chapel Hill, NC, USA. ²Duke University Medical Center, Duke, NC, USA. ³Indiana University School of Medicine, Indianapolis, IN, USA

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Restoring TFEB action attenuates cardiomyocyte dysfunction following nutrient overload
Purvi Trivedi¹, Jordan Bartlett¹, Daniel Kane², Marc Surette³, Petra Kienesberger¹ and Thomas Pulinilkunnil¹
¹Department of Biochemistry and Molecular Biology, Dalhousie University, Dalhousie Medicine New Brunswick, Saint John, New Brunswick, Canada. ²Faculty of Science, St. Francis Xavier University, Antigonish, Nova Scotia, Canada. ³Department of Chemistry and Biochemistry, Université de Moncton, Moncton, New Brunswick, Canada

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GDF15 a novel circulating cardiokine is secreted from the atrial tissue of obese patients with established heart disease
Shreya Sarkar¹,², Christie Aguiar³,², Jeffrey Macleod³,², Ansar Hassan¹,²,³, Ian Haidl⁴, Jean Marshall⁵, Petra Kienesberger¹,², Keith Brunt¹,², Thomas Pulinilkunnil¹,² and Jean Francois Legare¹,²,³
¹Department of Biochemistry and Molecular Biology, Dalhousie University, Faculty of Medicine, Dalhousie University, Dalhousie Medicine New Brunswick, Saint John, New Brunswick, Canada. ²IMPART Team Investigators, Saint John, New Brunswick, Canada. ³New Brunswick Heart Centre, Saint John, New Brunswick, Canada.
Adverse Cardiometabolic Outcomes in Obese Patients Correlates Strongly with Defective Branched-chain Amino Acid Catabolism

Dipsikha Biswas¹, Andrew Cowie¹, Kathleen Tozer¹, Lester J. Perez¹, Purvi Trivedi¹, Jordan J. Bartlett¹, Luke Duffley², Khoi Thien Dao², Geena V. Paramel³, Christie Aguiar³, Alexandra M. Yip³, Jennifer Shea³, Keith Brunt¹, Jean-François Legare³, Ansar Hassan¹, Petra Kienesberger¹ and Thomas Pulinilkunnil¹

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Cyclophilin D-mediated regulation of the permeability transition pore is altered in mice lacking the mitochondrial calcium uniporter

Randi Parks¹, Sara Menazza¹, Kira Holmstrom¹, Georgios Amanakis¹, Maria Fergusson¹, Angel Aponte¹, Paolo Bernardi², Toren Finkel¹ and Elizabeth Murphy¹

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Mitochondrial Ca²⁺ Uptake is Tightly Regulated by the C-Terminal End of EMRE

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Role of adrenergic receptor signaling in embryonic ventricular cell proliferation and differentiation

Brittney Allen and Kishore Pasumarthi

Dalhousie University, Halifax, NS, Canada

Epigenetic regulation of cardiac fibroblast senescence by class I histone deacetylases and ING2

Marina Feslibino and Timothy McKinsey

University of Colorado, Denver, USA

Branched chain α-ketoacids: Novel Regulator of Insulin and mTOR Signalling in Skeletal and Cardiac Muscle

Dipsikha Biswas¹, Andrew Cowie¹, Daniel Kane², Mohamed Touiaibia³, Petra Kienesberger¹ and Thomas Pulinilkunnil¹

¹Dalhousie Medicine New Brunswick, Saint John, New Brunswick, Canada. ²St. Francis Xavier University, Antigonish, Nova Scotia, Canada. ³Université de Moncton, Moncton, New Brunswick, Canada

Patient specific iPSC-derived cardiomyocytes reveal abnormal signaling pathways underlying...
hypertrophic cardiomyopathy in Noonan Syndrome
Fabrice Jaffre\textsuperscript{1,2}, Clint Miller\textsuperscript{3}, Amy Roberts\textsuperscript{4}, Andreas Hahn\textsuperscript{5} and Maria Kontaridis\textsuperscript{6}
\textsuperscript{1}Beth Israel Deaconess Medical Center, Boston, MA, USA. \textsuperscript{2}Harvard medical School, Boston, MA, USA. \textsuperscript{3}University of Virginia, Charlottesville, Virginia, USA. \textsuperscript{4}Boston Children’s Hospital, Boston, USA. \textsuperscript{5}Giessen University, Giessen, Germany. \textsuperscript{6}The Masonic Medical Research Institute, Utica, USA

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Natalie Landry\textsuperscript{1,2,3}, Mark Hnatowich\textsuperscript{1}, Ying Lao\textsuperscript{4,5}, John Wilkins\textsuperscript{4,5} and Ian Dixon\textsuperscript{1,2,5}
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