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
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Poster Session II
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
SPONSORS
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
Overview

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<td>8:30 AM – 10:30 AM</td>
<td><strong>ECI Symposium</strong></td>
<td>Regency Ballroom</td>
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<td>10:30 AM – 10:45 AM</td>
<td><strong>Coffee Break</strong></td>
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<td>10:45 AM – 11:45 AM</td>
<td><strong>Career Development Panel – Discussion</strong></td>
<td>Regency Ballroom</td>
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<tr>
<td>12:00 PM – 1:30 PM</td>
<td><strong>ECI Lunch with senior investigators (Ticket Required) or lunch on your own</strong></td>
<td>Imperial Ballroom</td>
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<td>2:00 PM – 3:30 PM</td>
<td><strong>Young Investigator Competition - Junior Sci.</strong></td>
<td>Regency Ballroom</td>
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<td>3:30 PM – 4:00 PM</td>
<td><strong>Coffee Break</strong></td>
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<tr>
<td>4:00 PM – 5:30 PM</td>
<td><strong>Young Investigator competition - Senior Sci.</strong></td>
<td>Regency Ballroom</td>
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<tr>
<td>5:30 PM – 8:00 PM</td>
<td><strong>Welcome Reception &amp; Posters – Session 1</strong></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

Candace Miller, PhD  
Senior Advisor, Science Strategy, Institute of Gender and Health  
Canadian Institutes of Health Research

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)  
Imperial Ballroom

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  
(Appetizers and beverages will be available)  
Georgian Lounge and Admiral Ballroom  
(Poster session sponsored by Scintica Instrumentation Inc).
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<th>Time</th>
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<td>7:00 AM</td>
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<td>8:00 AM</td>
<td>Registration</td>
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<td>8:00 AM</td>
<td>Sarrazin Award Lecture</td>
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<td>9:00 AM</td>
<td>Symposium 1: Cell death, cancer treatment &amp; cardiovascular disease</td>
<td>Imperial Ballroom</td>
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<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>10:30 AM</td>
<td>Breakfast Break</td>
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<td>11:00 AM</td>
<td>Symposium 3: Autophagy: fundamentals to cardiovascular disease</td>
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<td>11:00 AM</td>
<td>Symposium 4: Rare diseases, cardiomyopathy and heart failure</td>
<td>Regency Ballroom</td>
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<td>12:30 PM</td>
<td>ISHR – NAS Council Meeting</td>
<td>Britannia Room</td>
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<td>12:30 PM</td>
<td>Lunch &amp; Posters Session II</td>
<td>Admiral Room &amp; Georgian Lounge</td>
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<td>2:00 PM</td>
<td>Symposium 5: Cardiovascular diseases in females</td>
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<td>2:00 PM</td>
<td>Symposium 6: Evolving trends in cardiac metabolism</td>
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<td>Coffee Break</td>
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<td>4:00 PM</td>
<td>Symposium 7: Cardiac hypertrophy and heart failure</td>
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<td>4:00 PM</td>
<td>Symposium 8: New advances in stem cell and gene therapy</td>
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<td>Posters &amp; Reception – Session II</td>
<td>Georgian Lounge &amp; Admiral Room</td>
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<tr>
<td>7:00 PM</td>
<td>ECI Social (Ticket Required)</td>
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<td>8:00 AM – 9:00 AM</td>
<td>Plenary Lecture “The Sarrazin Award Lecture”</td>
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<td>Sandra Davidge (University of Alberta)</td>
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<td>“Impact of pregnancy complications on maternal and offspring cardiovascular health” (Sponsored by the Canadian Physiological Society)</td>
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<td>9:00 AM – 10:30 AM</td>
<td>Symposium 1: Cell death, cancer treatment &amp; cardiovascular disease</td>
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**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)

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**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), Erik Blackwood (San Diego State University)

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)

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**10:30 AM – 11:00 AM Coffee Break**

**Admiral Room**

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**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)

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**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-S 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

4:00 PM – 5:30 PM
Symposium 7: Cardiac hypertrophy and heart failure  
(Sponsored by the Journal of Molecular and Cellular Cardiology)  
Imperial Ballroom  
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)  

4:00 PM – 5:30 PM  
Symposium 8: New advances in stem cell and gene therapy  
(Sponsored by the Dalhousie Medical Research Foundation)  
Regency Ballroom  
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. Stem Cell Therapy for Aging Frailty (Joshua M. Hare, University of Miami)  
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
Thursday May 31, 2018
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<td>8:00 AM – 8:05 AM</td>
<td>2018 ISHR Distinguished Leader Award Presentation</td>
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<td>President’s Lecture</td>
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<td>Symposium 9: Contribution of the extracellular matrix to heart disease: beyond the structural support</td>
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<td>Symposium 10: Lipid metabolism and signaling in cardiovascular disease</td>
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<td>Symposium 11: Mechano-electric coupling: altered mechanics &amp; cardiac arrhythmias</td>
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<td>Symposium 12: Repair of the vulnerable heart</td>
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<td>Symposium 13: Frailty and cardiovascular diseases in males and females</td>
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<td>Symposium 14: Myocardial contractile and regulatory proteins in heart disease</td>
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<td>Symposium 15: Cardiovascular diseases in neonates and children</td>
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<td>3:45 PM</td>
<td>Symposium 16: Ischemia and cardioprotection in hearts at risk</td>
<td>Regency Ballroom</td>
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<td>5:45 or 6:05 PM</td>
<td>Times are estimates</td>
<td>Front of Lord Nelson Hotel &amp; Suites</td>
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<tr>
<td>6:15 PM</td>
<td>Reception, Lobster Banquet &amp; Awards</td>
<td>Pier 21</td>
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<td>9:00 PM</td>
<td>Music by “Big Fish” and dancing</td>
<td>Pier 21</td>
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<td>9:00 PM</td>
<td>Buses available for return to Lord Nelson</td>
<td>Pier 21 return to Lord Nelson Hotel</td>
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7:00 AM – 8:00 AM **Breakfast**

7:00 AM – 8:00 AM **Women in Science Breakfast**  *(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**

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

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**
Regency Ballroom
(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 – to be confirmed)

10:30 AM – 10:45 AM **Coffee Break**
Admiral Room

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), Stephan Lange (University of California San Diego)

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 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 Di 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
Friday June 1, 2018
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8:00 AM – 9:00 AM Breakfast

9:00 AM – 12:00 PM Registration

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 Wehrens, 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**

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

**CHAIRS:** Chris Baines (University of Missouri-Columbia), TBA

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**

**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)

11:00 AM – 12:30 PM

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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

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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

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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

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Cagla Eren Cimenci, Nick Blackburn, Manuel Ahumada, Brian McNeill, Emilio I. Alarcon and Erik J. Suuronen
University of Ottawa Heart Institute, Ottawa, Ontario, Canada

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Brian McNeill, Branka Vulesevic, Nick Blackburn, Marc Ruel and Erik Suuronen
University of Ottawa Heart Institute, Ottawa, Ontario, Canada

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Megan Monsanto, Bingyan Wang, Zach Ehrenberg, Roberto Alvarez and Mark Sussman
San Diego State University, San Diego, California, USA

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Dalhousie University, Halifax, Nova Scotia, Canada

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National Institute on Aging, Baltimore, MD, USA

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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

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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

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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

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1Dalhousie University, Halifax, NS, Canada. 2Georgia Institute of Technology, Atlanta, Georgia, USA

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Jessie Axsom1, Alay Nanavati1, Carolyn Rutishauser1, Elise Bonin1, Jack Moen1,2 and Edward Lakatta1
1National Institute on Aging, Baltimore, Maryland, USA. 2Yale University, New Haven, CT, USA

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\textsuperscript{1}University of California, Davis, Davis, CA, USA. \textsuperscript{2}Oregon Health and Science University, Portland, OR, USA

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\textsuperscript{1}University of Calgary, Calgary, AB, Canada. \textsuperscript{2}Dalhousie University, Halifax, NS, Canada. \textsuperscript{3}Western University, London, ON, Canada

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Sudhiranjan Gupta and Valorie Chiasson
*Texas A&M University, Temple, TX, USA*

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*University of Kentucky, Lexington, KY, USA*

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1Temple University, Philadelphia, Pennsylvania, USA. 2Thomas Jefferson University, Philadelphia, PA, USA

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*SUNY Polytechnic Institute, Albany, New York, USA. Montreal Heart Institute, Montreal, Quebec, Canada*

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*Baker Heart and Diabetes Institute, Melbourne, VIC, Australia*

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

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Jose Alejandro Austria¹, Jo-Anne Gilchrist¹, Brian Penner² and Grant Pierce¹,³
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¹University of Colorado Denver, Aurora, CO, USA. ²Children's Hospital of Colorado, Aurora, CO, USA. ³Denver Health and Hospital Authority, Denver, CO, USA

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

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¹UC San Diego, La Jolla, CA, USA. ²Case Western Reserve University, Cleveland, OH, USA

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Erik Blackwood¹, Khalid Azizi¹, Donna Thuerauf¹, Ryan Paxman², 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

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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

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Anjali Ghimire and Susan Howlett
Dalhousie University, Halifax, Nova Scotia, Canada

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University of Cincinnati, Cincinnati, Ohio, USA

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Suresh Palaniyandi¹,², Mandar Deshpande¹ and Guodong Pan¹
¹Henry Ford Health System, Detroit, MI, USA. ²Department of Physiology, Wayne State University, Detroit, MI, USA

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Man Liu¹, Euy-Young Jeong², An Xie¹, Eui Young So², 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, RI, USA

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Jessica M Pfleger, Polina Gross, Jaslyn Johnson, Erhe Gao, Steven R Houser and Walter J Koch
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Alexandra Moyzis, Leonardo Leon, Rita Najor and Asa Gustafsson
University of California, San Diego, La Jolla, CA, USA

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Sarah Shires, Rita Najor, Melissa Cortez and Åsa Gustafsson
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Emma Radcliffe1, Junhui Sun2, Angel Aponte2, David Eisner1, Micheal Murphy3, Gina Galli1, Elizabeth Murphy2 and Andrew Trafford1
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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

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1Mississippi Center for Heart Research, Department of Physiology and Biophysics, University of Mississippi Medical
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*University of Rochester Medical Center, Rochester, NY, USA*

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*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*

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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

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Dieter Kubli, Kelli Korski and Mark Sussman
*San Diego State University Research Foundation, San Diego, CA, USA*

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Justina Pupkaite, May Griffith, Jons Hilborn, Erik Suuronen and Ayan Samanta
1University of Ottawa Heart Institute, Ottawa, Canada. 2Linkoping University, Linkoping, Sweden. 3University of Montreal, Montreal, Canada. 4Uppsala University, Uppsala, Sweden
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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

Therapeutic modulation of heme metabolism post-myocardial infarction improves cardiac remodeling, ventricular function and survival
1Dalhousie Medicine New Brunswick, Dalhousie University, Saint John, NB, Canada. 2University of Guelph, Guelph, ON, Canada

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Mani Valarmathi
University of Alabama at Birmingham, Birmingham, AL, USA

Age-specific changes in myofibril mechanics in pediatric dilated cardiomyopathy
Kathleen Woulfe, Ying Lin, Xiaotao Li, Jennifer Mahaffey, Mary Sweet, Matthew Taylor, Luisa Mestroni, Shelley Miyamoto, Brian Stauffer, Carmen Sucharov and Mark Jeong
1University of Colorado Denver, Aurora, CO, USA. 2Children's Hospital of Colorado, Aurora, CO, USA. 3Denver Health and Hospital Authority, Denver, CO, USA

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, San Francisco, California, USA

Phosphorylation of cMyBP-C modulates the activation-dependence of unloaded shortening velocity at low levels of Ca\(^{2+}\) activation
Jasmine Giles, Jitandakumar Patel, Daniel Fitzsimons and Richard Moss
University of Wisconsin, Madison, WI, USA

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

MYH7 R403Q Mutation in Pigs: Altered Myofilament Dynamics, Hyper-Contractility, and Impaired Function In Vivo
Anu Anto, Robert Anderson, Marcus Henze, Fiona Wong, Marc Evanchik, Ferhaan Ahmad, Kristina Green and Carlos Del Rio
1Myokardia Inc, South San Francisco, CA, USA. 2University of Iowa Carver College of Medicine, Iowa City, Iowa, USA
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Role of the intracardiac nervous system in stress-induced arrhythmias with Popdc1 gene mutation

Matthew Stoyek¹, Thomas Brand² and T Alexander Quinn¹
¹Dalhousie University, Halifax, NS, Canada. ²Imperial College, London, United Kingdom

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The role of estrogens in pregnancy-induced increased heart rate

Valerie Long¹,², Nabil El Khoury¹,², Simon Thibault¹,² and Céline Fiset¹,²
¹Montreal Heart Institute, Montreal, QC, Canada. ²Université de Montréal, Montreal, QC, Canada

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Novel role of the protein phosphatase 1 regulatory subunit PPP1R3A in atrial fibrillation

Katherine Alsina¹, Mohit Hulsurkar², Chunxia Yao³, Barbara Langer⁴, David Chiang⁵, Samuel Buxton², Niels van der Sangen³, Albert Heck⁶,⁷, Dobromir Dobrev⁸ and Xander Wehrens²,⁹,³
¹Program in Integrative Molecular and Biomedical Sciences, Baylor College of Medicine, Houston, TX, USA. ²Department of Molecular Physiology and Biophysics, Baylor College of Medicine, Houston, TX, USA. ³Cardiovascular Research Institute, Baylor College of Medicine, Houston, TX, USA. ⁴West Germany Heart & Vascular Center, University Duisburg-Essen, Essen, Germany. ⁵Department of Medicine, Brigham and Women’s Hospital, Harvard Medical School, Boston, MA, USA. ⁶Biomolecular Mass Spectrometry and Proteomics, Bijvoet Center for Bimolecular Research and Utrecht Institute for Pharmaceutical Sciences, Utrecht University, Utrecht, Netherlands. ⁷Netherlands Proteomics Centre, Utrecht, Netherlands. ⁸West Germany Heart and Vascular Center, University Duisburg-Essen, Essen, Germany. ⁹Program in Integrative Molecular Biomedical Sciences, Baylor College of Medicine, Houston, TX, USA

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Understanding the Loss of Capture During Mechanical Pacing of the Heart

Behzad Taeb and T. Alexander Quinn
Dalhousie University, Halifax, NS, Canada

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Inflammaging does not contribute to age-related changes in cardiac electrical activity

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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Identifying the Novel Role of a Presenilin-2 Mutation in Arrhythmogenicity using Patient Specific Induced Pluripotent Stem Cells Derived Cardiomyocytes

Chi Keung Lam, Ning Ma, June Rhee, Tomoya Kitani, Joe Zhang, Rajani Shrestha, Haodi Wu and Joseph C. Wu
Stanford University, Stanford, CA, USA

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Role of connexin 40 in male predisposition to atrial fibrillation

Simon Thibault¹,², Anh-Tuan Ton¹,² and Céline Fiset¹,²
¹Université de Montréal, Montreal, Canada. ²Montreal Heart Institute, Montreal, Canada

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The Zebrafish as an Experimental Model for Studies of Sinoatrial Node Function

Melissa Mantifel, Jonathan Baillie, Matthew Stoyek and T. Alexander Quinn
Dalhousie University, Halifax, NS, Canada

P2-20
Investigating Cardiac Subtype-Specific Pharmacology Using Atrial-like Cardiomyocytes Derived from Human Induced Pluripotent Stem Cells (hiPSCs) and Optical Mapping
Marvin Gunawan¹, Sarabjit Sangha¹, Sanam Shafaattalab¹, Eric Lin¹, Zachary Laksman² and Glen F. Tibbits¹,³
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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Single cell investigation of mechanically-induced arrhythmias during acute ischemia
Breanne A Cameron, Matthew R Stoyek and T Alexander Quinn
Dalhousie University, Halifax, Canada

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Selective inhibition and activation of retinoid pathways to create chamber speic cardiac subtypes from human induced pluripotent stem cells (hiPSCs)
Sarabjit Sangha¹, Marvin Gunawan¹, Sanam Shafaattalab¹, Thomas Claydon¹, Zachary Laksman² and Glen Tibbits¹,²
¹Simon Fraser University, Burnaby, BC, Canada. ²University of British Columbia, Vancouver, BC, Canada

P2-23
Wnt Signaling Inhibits Calcium Channels in Cardiomyocytes
Kaya Gaudet¹,², Aizha Lu¹,², Darryl Davis¹,² and Wenbin Liang¹,²
¹University of Ottawa Heart Institute, Ottawa, Ontario, Canada. ²University of Ottawa, Ottawa, Ontario, Canada

P2-24
AMPK activation before left ventricular pressure overload attenuates maladpative remodelling
Deokhwa Nam¹, Eunah Kim¹, Ashley Benham², Hyekyung Park³, Benjamin Soibam³, George Taffet⁴, Jason Kaelber⁴, Ji Ho Suh⁴, Heinrich Taegtmeyer⁵, Mark Entman⁴ and Erin Reineke¹
¹Houston Methodist Research Institute, Houston, TX, USA. ²Texas Heart Institute, Houston, TX, USA. ³University of Houston-Downtown, Houston, TX, USA. ⁴Baylor College of Medicine, Houston, TX, USA. ⁵McGovern Medical School at The University of Texas Health Science Center at Houston, Houston, TX, USA

P2-25
m6A mRNA methylation drives cardiomyocyte hypertrophy
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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Instability and mutation impact on C-MyBP-C FNIII domain suggests a previously unappreciated functional relevance
Dan Smelter, Willem de Lange and J Carter Ralphe
University of Wisconsin School of Medicine and Public Health, Madison, WI, USA

P2-27
Redox Regulation of Proteotoxic Myocardial Remodeling and Heart Failure in Mouse and Human
Gobinath Shanmugam¹, Ding Wang³, Thiagarajan Sairam³, Joly Fernandez⁴, Kevin Whitehead⁵, E. Dale Abel⁶, Thomas Kensler⁷, John Hoidal⁷, Dean Jones⁴, Victor Darley-Usmar¹,⁸, Sankaran Ramalingam⁵, Peipei Ping² and Rajasekaran Namakkal Soorappan¹,³,⁸
Increasing fatty acid oxidation in the failing heart does not improve cardiac function
Kim Ho¹, Liyan Zhang¹, Cory Wagg³, 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

The muscle-specific MuRF1 ubiquitin ligase transcriptionally regulates cardiomyocyte autophagy in a FOXO1/3-dependent manner and protects against cardiac inflammation in vivo
Traci Parry¹, Francisco Altamirano¹, Joe Hill², Thomas Gillette² and Monte Willis¹
¹University of North Carolina, Chapel Hill, NC, USA. ²University of Texas Southwestern, Dallas, TX, USA.

A Computational Heart Model for the effects of Pulmonary Arterial Hypertension
Reza Avaz and Michael Sacks
University of Texas at Austin, Austin, Texas, USA

Human Antigen R (HuR) as a therapeutic target in pathological cardiac hypertrophy
Lisa Green¹, Sarah Anthony¹, Samuel Slone¹, Lindsey Lanzillotta¹, Michelle Nieman¹, Xiaoqing Wu², Nathan Robbins¹, Shannon Jones¹, Jack Rubinstein¹, John Lorenz², Burns Blaxall¹, Liang Xu², Joshua Benoît¹ and Michael Tranter¹
¹University of Cincinnati, Cincinnati, Ohio, USA. ²University of Kansas, Lawrence, KS, USA. ³Cincinnati Children’s Hospital Medical Center, Cincinnati, OH, USA

Nucleolar Enlargement and Perturbed Ribosome Biogenesis Are Cellular Hallmarks of Cardiac Aging
Collin Matsumoto¹, Joanne Grayda¹, Trang Hua¹, Mark Sussman² and Nirmala Hariharan¹
¹University of California, Davis, Davis, CA, USA. ²San Diego State University, San Diego, CA, USA

Human Relaxin-2 Fusion for the Treatment of Heart Failure
Weidong Hao¹, Andrew Garcia², Vanessa Muniz-Medina¹, Agnieszka Sadowska¹, Ruoyan Chen¹, Judy Paterson³, Monika Papworth², Jia Lin², Linda Xu², Denison Kuruvilla³, Diana Pao³, Sotirios Karathanasis⁴, Changshou Gao³, Kim Rosenthal², Keith Rickert², Susan Wilson², Jane Osbourn¹ and Jill Walker¹
¹Biosuperiors, MedImmune LLC, Gaithersburg, MD, USA. ²ADPE, MedImmune LLC, Gaithersburg, MD, USA. ³DMPK, MedImmune LLC, Gaithersburg, MD, USA. ⁴LAR, MedImmune LLC, Gaithersburg, MD, USA

Remodeling of myocardial extracellular matrix and proteoglycans varies in pediatric versus adult patients with dilated
cardiomyopathy
Sayantan Jana, Hao Zhang, Darren Freed, Gary Lopaschuk, Paul Kantor, Gavin Oudit and Zamaneh Kassiri
University of Alberta, EDMONTON, Alberta, Canada

P2-35
Long-term rescue of a familial hypertrophic cardiomyopathy caused by a mutation in troponin T, via reduced expression of phospholamban
Shamim Chowdhury¹, Jillian Simon¹, David Ryba¹, Noorzahan Begum², Evangelia Kranias³, Jil Tardiff⁴, R. John Solaro¹ and Beata Wolska¹
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

P2-36
Inducing Expression of the Cleaved Form of DJ-1 Attenuates Ischemic-Induced Heart Failure
Yvanna Pantner³, Yuuki Shimizu³, Chad Nicholson¹, Lian Li³, Lih-Shen Chin³ and John Calvert¹
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

P2-37
Effects of vitamin D supplementation for six months on cardiac magnetic resonance imaging in mexican patients with heart failure
Gerardo Mendoza-Lara, Gustavo Gutiérrez-Del Bosque, Gerardo García-Rivas, Luisa Fernanda Pérez-Villarreal, Bianca Nieblas-Leon and Leticia Elizondo-Montemayor
Tecnologico de Monterrey, Escuela de Medicina y Ciencias de la Salud, Monterrey, N.L., Mexico

P2-38
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 Kane¹, Kaitlyn Keller¹, Hirad Feridooni¹, Stefan Heinez-Miline², Scott Grandy² and Susan Howlett¹,³
¹Department of Pharmacology, Dalhousie University, Halifax, NS, Canada. ²School of Health and Human Performance, Dalhousie University, Halifax, NS, Canada. ³Department of Medicine (Geriatric Medicine, Halifax, NS, Canada

P2-39
Effects of vitamin D supplementation for six months on the cytokine profile in Mexican heart failure patients
Gustavo Gutiérrez-Del Bosque, Gerardo Mendoza-Lara, Gerardo García-Rivas, Luisa Fernanda Pérez-Villarreal, Bianca Nieblas, José R. Villareal-Calderón, Sofia Tenorio-Martínez and Leticia Elizondo-Montemayor
Tecnologico de Monterrey, Escuela de Medicina y Ciencias de la Salud, Monterrey, Nuevo León, Mexico

P2-40
In response to myocardial injury, the Nlrp3 inflammasome-primed neutrophils make a round trip to the bone marrow to amplify granulopoiesis
Ahmed Abdel-Latif², Baskaran Athmanathan², Gopalkrishna Sreejit², Ashish Dhyani², Rahul Annabathula¹, Susan Smyth¹, Andrew Murphy³ and Prabhakara Nagareddy⁴
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
P2-41
Loss of the Prolyl Hydroxylase OGFOD1 In Vivo Leads to Metabolic Alterations
Leslie Kennedy¹, Junhui Sun¹, Angel Aponte², Danielle Springer³, Marjan Gucek², Matthew Cockman⁴, Peter Ratcliffe⁴ and Elizabeth Murphy¹
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

P2-42
The Oxidized Phospholipids POVPC and PONPC affect Calcium Transients and Contraction in Adult Rat Cardiomyocytes
Aleksandra Stamenkovic¹,², Thane Maddaford¹,², Amir Ravandi¹,³ and Grant Pierce¹,²
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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Inorganic Arsenic Exposure and Sex Dependent Susceptibility to Ischemic Heart Injury
Ryne Veenema, Nathan Mackowski and Mark Kohr
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA

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A potential role for human mast cells in the resolution of cardiac inflammation.
Stephanie Legere¹, Ian Haidl¹, Jean-Francois Legare² and Jean Marshall¹
¹Dalhousie University, Halifax, Nova Scotia, Canada. ²Dalhousie University, Saint John, New Brunswick, Canada

P2-45
The Role of Ca²⁺/calmodulin-dependent kinase II (CaMKII) In Hydrogen Peroxide Mediated Cell Death
Mahogany Oldham, Elizabeth Murphy and Georgios Amanakis
National Institutes of Health, NHLBI, Laboratory of Cardiac Physiology, Bethesda, MD, USA

P2-46
Methylglyoxal in myocardial infarction and effects on cell function
Mayte Gonzalez-Gomez¹,², Julia Zhu-Pawlowsky², Nicole Adriano¹, Danielle Giroux¹,², Brian McNeill¹, Cagla Eren-Cimenci¹,² and Erik J. Suuronen¹,²
¹Division of Cardiac Surgery, University of Ottawa Heart Institute, Ottawa, ON, Canada. ²Department of Cellular and Molecular Medicine, University of Ottawa, Ottawa, ON, Canada

P2-47
The impact of age and frailty on ventricular function before and after ischemia-reperfusion in C57BL/6 mice.
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

P2-48
MuRF1-Related Metabolic Alterations in HL-1 Cardiomyocyte Induced by Cyclic Stretch
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

Shreya Trivedi, Jordan Bartlett, Daniel Kane, Marc Surette, Petra Kienesberger and Thomas Pulinilkunnil

Department of Biochemistry and Molecular Biology, Dalhousie University, Dalhousie Medicine New Brunswick, Saint John, New Brunswick, Canada. Faculty of Science, St. Francis Xavier University, Antigonish, Nova Scotia, Canada. Department of Chemistry and Biochemistry, Université de Moncton, Moncton, New Brunswick, Canada

P2-50

GDF15 a novel circulating cardiokine is secreted from the atrial tissue of obese patients with established heart disease

Shreya Sarkar, Christie Aguiar, Jeffrey Macleod, Ansar Hassan, Ian Haidl, Jean Marshall, Petra Kienesberger, Keith Brunt, Thomas Pulinilkunnil and Jean Francois Legare

Department of Biochemistry and Molecular Biology, Faculty of Medicine, Dalhousie University, Dalhousie Medicine New Brunswick, Saint John, New Brunswick, Canada. IMPART Team Investigators, Saint John, New Brunswick, Canada. New Brunswick Heart Centre, Saint John, New Brunswick, Canada. REACH Investigators, Halifax, Nova Scotia, Canada

P2-51

Adverse Cardiometabolic Outcomes in Obese Patients Correlates Strongly with Defective Branched-chain Amino Acid Catabolism


Dalhousie Medicine New Brunswick, Saint John, New Brunswick, Canada. University of New Brunswick, Saint John, New Brunswick, Canada. Saint John Regional Hospital, Saint John, New Brunswick, Canada

P2-52

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

Randi Parks, Sara Menazza, Kira Holmstrom, Georgios Amanakis, Maria Fergusson, Angel Aponte, Paolo Bernardi, Toren Finkel and Elizabeth Murphy

NHLBI, NIH, Bethesda, MD, USA. University of Padova, Padova, Italy

P2-53

Mitochondrial Ca\textsuperscript{2+} Uptake is Tightly Regulated by the C-Terminal End of EMRE

Nicole Syder, Chengyu Liu, Toren Finkel, Elizabeth Murphy and Julia Liu

NHLBI, National Institutes of Health, Bethesda, MD, USA. NHLBI Transgenic Core, Bethesda, MD, USA. Center for Molecular Medicine, NIH, Bethesda, MD, USA

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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

P2-55

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

Marina Feslibino and Timothy McKinsey

University of Colorado, Denver, USA

P2-56

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. ², St. Francis Xavier University, Antigonish, Nova Scotia, Canada. ³Université de Moncton, Moncton, New Brunswick, Canada

P2-57
Patient specific iPSC-derived cardiomyocytes reveal abnormal signaling pathways underlying hypertrophic cardiomyopathy in Noonan Syndrome
Fabrice Jaffre¹,², Clint Miller³, Amy Roberts⁴, Andreas Hahn⁵ and Maria Kontaridis⁶
¹Beth Israel Deaconess Medical Center, Boston, MA, USA. ²Harvard medical School, Boston, MA, USA. ³University of Virginia, Charlottesville, Virginia, USA. ⁴Boston Children’s Hospital, Boston, USA. ⁵Giessen University, Giessen, Germany. ⁶The Masonic Medical Research Institute, Utica, USA

P2-58
Proximity-Labelling by BioID Reveals Pleiotropic Ski Interactome
Natalie Landry¹,²,³, Mark Hnatowich¹, Ying Lao⁴,⁵, John Wilkins⁴,⁵ and Ian Dixon¹,²,⁵
¹Institute of Cardiovascular Sciences, St. Boniface Hospital Albrechtsen Research Centre, Winnipeg, Manitoba, Canada. ²Department of Physiology & Pathophysiology, Winnipeg, Manitoba, Canada. ³4Max Rady College of Medicine, Rady Faculty of Health Sciences, Winnipeg, Manitoba, Canada. ⁴Department of Internal Medicine, Winnipeg, Manitoba, Canada. ⁵Max Rady College of Medicine, Rady Faculty of Health Sciences, Winnipeg, Manitoba, Canada
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<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Imperial Ballroom</th>
<th>Regency Ballroom</th>
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<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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<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>
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<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>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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<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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<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>
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<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>
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