



5TH INTERNATIONAL OTTAWA HEART CONFERENCE

INFLAMMATION IN CARDIOMETABOLIC DISEASE

CONFERENCE BROCHURE

March 30-31, 2017

Westin Hotel, Ottawa

Registration now open | ottawaheartconference.ca



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



The 5th International Ottawa Heart Conference (formally known as the Ottawa Heart Research Conference), will take place on March 30-31, 2017 at the Westin Ottawa Hotel.

Hosted by the University of Ottawa Heart Institute, this 1.5 day event promises to bring together national and international experts and stakeholders to provide the latest discoveries and innovations in cardiovascular health and professional interactions that help to define the current frontiers in cardiovascular science.

This year's theme **Inflammation in Cardiometabolic Disease** will highlight the latest concepts in how inflammation drives cardiovascular and metabolic disease and exciting developments in immuno-targeting therapeutics.

This is an accredited opportunity for knowledge exchange for a variety of stakeholders including scientists, clinician investigators, trainees and research staff. The conference will feature plenary sessions, panel discussions, poster displays and networking opportunities.

Don't miss this chance to be part of an event that will impact how we understand the development of cardiovascular disease, emerging targets and future therapies. Register Today!

Conference Objectives:

- Analyze the latest translational research findings and treatment therapies for inflammation in cardiometabolic disease.
- Explore new and emerging therapies and their future impact on cardiovascular care.
- Engage with other clinical and research experts in the field of inflammation from across Canada, and internationally, for future partnerships and collaboration.

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PLANNING COMMITTEE

Peter Liu, MD, FRCPC

Chief Scientific Officer
Vice President, Research
Director, Cardiac Function Laboratory
University of Ottawa Heart Institute
Professor, Faculty of Medicine
University of Ottawa
University of Toronto

Katey Rayner, PhD

Conference Chair
Scientist; Director, Cardiometabolic
microRNA Laboratory;
University of Ottawa Heart Institute
Assistant Professor, Department
of Biochemistry, Microbiology &
Immunology, Faculty of Medicine
University of Ottawa

Subash Sad, PhD

Conference Co-Chair
Director of the Microbiology Graduate
Program and Professor
University of Ottawa

Pushpinder Kanda, MSc, MD/PhD Student

University of Ottawa Heart Institute

Alison Hosey, PhD

Manager, Research Services
University of Ottawa Heart Institute

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Research Administrative Officer
University of Ottawa Heart Institute

Greg Leonard, MA

Manager, Marketing and Publications
Department of Communications
University of Ottawa Heart Institute

Lisa Comber

Conference Coordinator
Knowledge Translation Officer
University of Ottawa Heart Institute

ACCREDITATION

This event is an Accredited Group Learning Activity (Section 1) as defined by the Maintenance of Certification program of the Royal College of Physicians and Surgeons of Canada for 9.0 hours.

This program has been reviewed and approved by the University of Ottawa, Office of Continuing Professional Development.

DISCLOSURE

Speakers will be requested to disclose to the audience any real or apparent conflict(s) of interest that may have a direct bearing on the subject matter of this program.

SPEAKERS

- ▶ **Catherine “Lynn” Hedrick, PhD**
Professor, Division of Inflammation Biology
La Jolla Institute for Allergy and Immunology
La Jolla, CA
- ▶ **Li-Hao “Paul” Huang, PhD**
Post-doctoral Scholar
Department of Pathology and Immunology
Washington University School of Medicine
Saint Louis, MO
- ▶ **Nicholas Leeper, MD**
Associate Professor of Surgery
Chief, Vascular Medicine/Vascular Surgery
Director, Vascular Surgery Research
Stanford University Medical Center
Stanford, CA
- ▶ **Peter Liu, MD, FRCPC**
Chief Scientific Officer
Vice President, Research
Director, Cardiac Function Laboratory
University of Ottawa Heart Institute
Professor, Faculty of Medicine
University of Ottawa
University of Toronto
- ▶ **Gary K. Owens, PhD**
Robert M. Berne Endowed Professor of Cardiovascular Research
Director of the Robert M. Berne Cardiovascular Research Center
Professor of Molecular Physiology and Biological Physics
Professor of Internal Medicine, Division of Cardiology
Director of the Cardiovascular Training Program
University of Virginia School of Medicine
Charlottesville, VA
- ▶ **Josef Penninger, MD**
Senior Scientist and Scientific Director
Institute of Molecular Biotechnology (IMBA)
Vienna, AT
- ▶ **Katey Rayner, PhD**
Conference Chair
Scientist; Director, Cardiometabolic microRNA Laboratory;
University of Ottawa Heart Institute
Assistant Professor, Department of Biochemistry, Microbiology &
Immunology, Faculty of Medicine
University of Ottawa
Ottawa, ON
- ▶ **Clinton Robbins, PhD**
Peter Munk Chair in Aortic Disease Research
Peter Munk Cardiac Centre
Scientist, Division of Advanced Diagnostics
Toronto General Research Institute
Assistant Professor
Departments of Laboratory Medicine and Pathobiology and Immunology
University of Toronto
Toronto, ON
- ▶ **Benjamin Rotstein, PhD**
Assistant Professor, Department of Biochemistry, Microbiology and
Immunology
University of Ottawa
Scientist and Director, Molecular Imaging Probes and Radiochemistry
Laboratory
University of Ottawa Heart Institute
Ottawa, ON
- ▶ **Maya Saleh, PhD**
Director, Inflammation and Cancer Program
Associate Professor, Department of Medicine
McGill Life Sciences Complex
Montreal, QC
- ▶ **Ahmed A. Tawakol, MD**
Co-Director, Cardiac MR PET CT Program
Massachusetts General Hospital
Boston, MA

* Learning Objectives

By the end of the session, participants will be able to:

7:30 – 8:30 Registration and Continental Breakfast

8:30 – 8:45 Introductory Comments

Dr. Katey Rayner
University of Ottawa Heart Institute | Ottawa, ON

Dr. Subash Sad
University of Ottawa | Ottawa, ON

Dr. Thierry Mesana
University of Ottawa Heart Institute | Ottawa, ON

8:45 – 9:30 KEYNOTE PRESENTATION

Regulation of Cell Death and Innate Immunity Crosstalk in Health and Disease

** Explain how the inflammasome is regulated and how it regulates apoptosis and necroptosis in infection, inflammation and cancer*

Dr. Maya Saleh
McGill Life Sciences Complex | Montreal, QC

9:30 – 10:10 Transitions of Perivascular Cells to a Macrophage-like State Play a Key Role in the Pathogenesis of Atherosclerosis and Metabolic Disease

** Explain the results of our SMC-pericyte lineage tracing and simultaneous Klf4 or Oct4 gene knockout studies showing that a substantial fraction of cells previously identified as macrophages within atherosclerotic lesions and within pathological fat tissues are unexpectedly of perivascular not myeloid origin and play a key role in the pathogenesis of atherosclerosis and metabolic disease.*

Dr. Gary K. Owens
University of Virginia School of Medicine Charlottesville | VA

10:10 – 10:30 Break

10:30 – 11:10 The Role of Efferocytosis in Cardiovascular Disease

** Describe the role of programmed cell clearance (efferocytosis) in the heritable component of cardiovascular disease, and its potential as a novel translational target.*

Dr. Nicolas Leeper
Stanford University Medical Center | Stanford, CA

11:10 – 11:50 Bring Out Your Dead: Cell Death and its Consequences in Inflammatory Vascular Disease

** Explain the participation of inflammatory cell death pathways in the development of atherosclerosis and metabolic diseases*

Dr. Katey Rayner
University of Ottawa Heart Institute | Ottawa, ON

11:50 – 1:30 Sponsored Networking Lunch (11:50– 12:35) Poster Session (12:35-1:30)

1:30 – 2:10 Progress Towards Molecular Imaging of Vascular Inflammation

** Discuss the development of radiotracers and imaging targets for inflammation in atherosclerosis.*

Dr. Benjamin Rotstein
University of Ottawa
University of Ottawa Heart Institute | Ottawa, ON

2:10 – 2:50 Imaging Cardiovascular Inflammation: Insights from Within and Outside the Vessel Wall

** Describe the pathobiology of atherosclerotic inflammation and techniques used to assess it.*

Dr. Ahmed Tawakol
Massachusetts General Hospital
Harvard Medical School | Boston, MA

AGENDA ► THURSDAY MARCH 30, 2017

2:50 – 3:10 Break

3:10 – 3:50 **Monocyte Subsets in the Vasculature**

** Describe monocyte heterogeneity and how this may contribute to chronic diseases, including cardiovascular disease and cancer.*

Dr. Catherine ‘Lynn’ Hedrick
La Jolla Institute for Allergy and Immunology | La Jolla, CA

3:50 – 4:25 **THE DEBATE: The Pros and Cons of Therapeutically Targeting Inflammation in Cardiometabolic Disease**

** Examine the progress made thus far in therapeutic targeting of inflammation to treat chronic diseases like atherosclerosis and diabetes, as two experienced researchers highlight the risks and benefits with this therapeutic approach.*

COMING SOON

4:25 – 4:30 **Closing Remarks**

Dr. Subash Sad
University of Ottawa | Ottawa, ON

6:30 – 9:30 **Networking Dinner and Concert**
The Shaw Centre, Colonel By Foyer



AGENDA ► FRIDAY MARCH 31, 2017

* Learning Objectives

By the end of the session, participants will be able to:

7:30 – 8:30 **Registration and Continental Breakfast**

8:30 – 8:35 **Introductory Comments and Recap**

Dr. Subash Sad
University of Ottawa | Ottawa, ON

Dr. Peter Lio
University of Ottawa Heart Institute | Ottawa, ON

8:35 – 9:20 **KEYNOTE PRESENTATION**
Cardiac Regeneration

** Describe how we have shown that neonatal mice and humans can repair complex cardiac injury following ischemic injury. Neonatal heart regeneration could be used to identify pathways regulate repair of damaged cardiac tissue.*

Dr. Josef Penninger
Institute of Molecular Biotechnology (IMBA) | Vienna, AT

9:20 – 10:00 **Macrophage Responses in Cardiovascular Health and Disease**

** Describe our work which focuses on determining the relative numerical and functional contributions of tissue-resident versus bone marrow-derived macrophages to cardiovascular health and inflammatory diseases including atherosclerosis and abdominal aortic aneurysm.*

Dr. Clinton Robbins
Peter Munk Cardiac Centre
Toronto General Research Institute
University of Toronto | Toronto, ON

10:00 – 10:20 **Break**

10:20 – 11:05 **Rapid Fire Oral Presentations**

** Interpret new experiences, insights, and latest research results in the field of inflammation in cardiometabolic disease from our conference delegates.*

Multiple Presenters

11:05 – 11:45 **Impaired Interstitial HDL Transit in Psoriasis: an Immunological Clue in Atherosclerosis**

** Explain the importance of HDL transport through tissues, how it can be modulated by immunological responses, and its link to atherosclerosis.*

Dr. Paul Huang
Washington University School of Medicine | Saint Louis, MO

11:45 – 12:15 **Ask the Experts Panel Discussion**

** Summarize emerging concepts in inflammatory disease and where the field is heading*

Dr. Catherine ‘Lynn’ Hedrick
La Jolla Institute for Allergy and Immunology | La Jolla, CA

Dr. Maya Saleh
McGill Life Sciences Complex | Montreal, QC

Dr. Nicolas Leeper
Stanford University Medical Center | Stanford, CA

12:15 – 12:30 **Awards Ceremony and Closing Remarks | Dr. Katey Rayner**



REGISTRATION FEES

Registration is now open. Register online at ottawaheartconference.ca

	EARLY BIRD FEE (Register on or before February 28, 2017)	REGULAR FEE (Register after February 28, 2017)
Regular Attendee	\$225	\$275
*Trainee	\$99	\$125

***Trainee includes:** undergraduate, masters, PhD, post-doc, medical students, residents and fellows with proof of status. If no proof is provided onsite, the regular attendee rate will apply.

Best Rapid-Fire Oral Presentation and Best Poster Awards

The 5th International Ottawa Heart Conference Committee will be offering an award for Best Rapid-Fire Oral Presentation and Best Poster. Winners will each receive an award of recognition during the closing remarks on March 31, 2017.

Visit ottawaheartconference.ca for more details.



NETWORKING OPPORTUNITIES

A sponsored networking lunch will be held on Thursday March 30, 2017 from 12:00 – 12:35 p.m. for registered delegates. This lunch is included in your registration fee.

Networking Dinner and Concert

On Thursday March 30, please join us for an elegant, fun-filled evening at the Shaw Centre in the Colonel By Foyer attached to the Westin Ottawa Hotel. Enjoy signature cocktails with colleagues and friends, a special classical concert, followed by a 3-course plated dinner. Get ready for a night of heart healthy food, delicious wine, classical music and wonderful company. Tickets are available on ottawaheartconference.ca. Don't wait - space is limited!

Sponsorship Opportunities

We invite you to become an important part of this incredible opportunity by participating as an Event Sponsor. A variety of sponsorship levels have been developed and will be available to government, corporate, community, and other healthcare agencies. Don't miss this chance to be part of something that will impact how we understand how cardiovascular disease develops, emerging targets, and therapies for the future. Visit ottawaheartconference.ca to view our Sponsorship Prospectus or contact us directly at researchconference@ottawaheart.ca to discuss how you or your organization can get involved!



CONFERENCE LOCATION

The Westin Hotel

11 Colonel By Drive
Ottawa, ON K1N 9H4

Located in the heart of the city, the Westin Ottawa hotel is just steps away from the city's most popular attractions. Lose yourself in the energy of the bustling Byward Market; indulge in world-class shopping in the attached Rideau Centre; or explore the natural beauty of the Gatineau Hills. No matter how long or short your stay, the Westin Ottawa will help you plan an experience that is different, better, and special.

TRAVEL

We are pleased to offer travel discounts for qualifying delegates.

Please visit ottawaheartconference.ca for more information on cost saving travel rates.

HOTEL ACCOMODATION

A limited block of guestrooms has been reserved at the Westin Ottawa for conference delegates at a negotiated group rate of \$256.00 CAD per night. Conference delegates may reserve a room by calling the Reservations Department at 1-800-WESTIN-1 or online at ottawaheartconference.ca. In order to receive the negotiated group rate, please reference "5th International Ottawa Heart Conference" and book your reservation before March 7, 2017.

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