

5TH INTERNATIONAL OTTAWA HEART CONFERENCE

INFLAMMATION IN CARDIOMETABOLIC DISEASE

OTTAWAHEARTCONFERENCE.CA

AGENDA

THURSDAY, MARCH 30, 2017

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

Time	Topic	Speakers
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	
	<i>* Explain how the inflammasome is regulated and how it regulates apoptosis and necroptosis in infection, inflammation and cancer.</i>	
	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	
	<i>* 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.</i>	
	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	
	<i>* Describe the role of programmed cell clearance (efferocytosis) in the heritable component of cardiovascular disease, and its potential as a novel translational target.</i>	
	Dr. Nicholas Leeper Stanford University Medical Center Stanford, CA	

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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 **Networking Lunch (12:00 – 12:35) and 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

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

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3:50 – 4:20

Taming Cardiovascular Complications and Improving Patient Outcomes: PCSK9 Inhibitors Forging the New Frontier

** Describe the latest randomized controlled trial data on PCSK9 directed therapies by GLAGOV & FOURIER.*

Dr. Ruth McPherson

University of Ottawa Heart Institute
Ottawa, ON

Inflammation & Myocardial Diseases: Opportunities for Translation

4:20 – 4:50

** Describe how inflammation and the innate immune system play a critical role in mediating myocarditis and heart failure, conditions providing insights into therapeutic opportunities and risks.*

Dr. Peter Liu

University of Ottawa Heart Institute
Ottawa, ON

4:50 – 5:00

Closing Remarks

Dr. Subash Sad

University of Ottawa
Ottawa, ON

5:00 – 6:00

Wine & Cheese Poster Session

6:30 – 9:30

Networking Dinner and Concert (Colonel By Foyer, Shaw Centre)

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FRIDAY, MARCH 31, 2017

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

Time	Topic	Speakers
7:30 – 8:30	Registration and Continental Breakfast	
8:30 – 8:35	Introductory Comments and Recap	
	Dr. Subash Sad University of Ottawa Ottawa, ON	
8:35 – 9:20	KEYNOTE PRESENTATION Cardiac Regeneration	
	<i>* 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.</i>	
	Dr. Josef Penninger Institute of Molecular Biotechnology (IMBA) Vienna, AT	
9:20 – 10:00	Macrophage Responses in Cardiovascular Health and Disease	
	<i>* 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.</i>	
	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	
	<i>* Interpret new experiences, insights, and latest research results in the field of inflammation in cardiometabolic disease from our conference delegates.</i>	
	Multiple Presenters	

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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. Nicolas Leeper
Stanford University Medical Center
Stanford, CA

Dr. Maya Saleh
McGill Life Sciences Complex
Montreal, QC

12:15 – 12:30 **Awards Ceremony and Closing Remarks**

Dr. Katey Rayner