

42nd Canadian Lipoprotein Conference 2017
Preliminary Scientific Program
October 19-22, 2017
Chateau Laurier, Ottawa, Ontario

Thursday, October 19th

- 4:00- 6:00 PM **Arrival and Registration** (Drawing Room foyer)
- 6:00- 7:30 PM **Buffer Dinner** (Drawing Room)
- 7:30- 7:40 PM Opening and welcoming remarks from Conference Chairs

Session I: 7:40- 9:50 PM

Translational and Clinical Symposium (Drawing Room)

Chair: Dr. Morgan Fullerton

- 7:40-8:05 PM **Dr. Jonathan Schertzer:** “Immunometabolism of statin intolerance and side-effects: beyond cholesterol”
- 8:05-8:30 PM **Dr. Benoît Arsenault:** “Does lifestyle predict disease severity in patients with inherited lipid disorders?”
- 8:30- 9:10 PM **Dr. Jacques Genest:** “A Tale of two Pathologists, Virchow and Anitschkov (They were both right)”
- 9:10- 9:50 PM **Dr. Robert Blaustein:** “CETP inhibition and cardiovascular outcomes”

Friday, October 20th

- 7:00- 8:30 AM **Breakfast** (Canadian Room)

Session II: 8:30- 10:00 AM Oral Presentations (Drawing Room)

Chair: TBD

- 8:30-8:45 AM **Stephen Lee** | Christina Priest | Cynthia Hong | Jason Kim | Peter Tontonoz
(UCLA)
The role of IDOL in systemic energy homeostasis
- 8:45- 9:00 AM Sereana Wan | Folkert Kuipers | Rick Havinga | Dennis E. Vance | René L. Jacobs | **Jelske N. van der Veen**
(University of Alberta)

Mice lacking phosphatidylethanolamine n-methyltransferase develop intrahepatic cholestasis when fed a high-fat diet

9:00-9:15 AM **Jean-Philippe Drouin-Chartier** | André J. Tremblay | Jean-Charles Hogue | Valéry Lemelin | Benoît Lamarche | Patrick Couture (Université Laval)
Plasma PCSK9 concentrations are positively associated with the apolipoprotein B-48-containing triglyceride-rich lipoprotein production rate

9:15-9:30 AM **Jihong Lian** | Russell Watts | Richard Lehner (University of Alberta)
Inhibition of Ces1d activity attenuates nonalcoholic fatty liver disease

9:30-9:45 AM **Simon Bissonnette** | Valérie Lamantia | Yannick Cyr | Viviane Provost | Marie Devaux | May Faraj (Université de Montréal)
ApoB-lipoproteins are priming signals for the NLRP3 inflammasome in human white adipose tissue

9:45-10:00 AM **Denuja Karunakaran** | Adam Turner | My Anh Nguyen | Joshua Kandiah | Michele Geoffrion | Zachary Lister | Ana Mompeon | Hailey Wyatt | Majid Nikpay | Ella deKemp | Calvin Pan | Richard Lee | Mary-Ellen Harper | Aldons Lulis | Ruth McPherson | Katey Rayner (University of Ottawa Heart Institute)
Therapeutic inhibition of RIP1 improves metabolic dysfunction and inhibits atherosclerosis in mouse models of cardiometabolic diseases.

10:00- 10:20 AM **Refreshment Break** (Drawing Room foyer)

Session III: 10:20-11:35 AM Oral Presentations (Drawing Room)

Chair: TBD

10:20-10:35 AM **Nicholas D. LeBlond** | Julia Nunes | Suresh Gadde | Morgan D. Fullerton (University of Ottawa)
Macrophage AMPK links cholesterol and lysosomal homeostasis.

10:35- 10:50 AM **Samaneh Samami** | Maya Mamarbachi | Eric Rhéaume | Jean-Claude Tardif | Steve Poirier | Gaétan Mayer (Université de Montréal)
Identification of a Golgi-associated protein that regulates the secretion of PCSK9 and ApoB-lipoproteins

- 10:50-11:05 AM **My-Anh Nguyen** | Denuja Karunakaran | Michele Geoffrion | Henry S Cheng | Kristofferson Tandoc | Ljubica Perisic Matic | Ulf Hedin | Lars Maegdefessel | Jason E Fish | Katey J Rayner
(University of Ottawa Heart Institute)
Extracellular vesicles secreted by atherogenic macrophages transfer microRNA to inhibit cell migration
- 11:05- 11:20 AM **Amy C. Burke** | Dawn E. Telford | Jane Y. Edwards | Brian G. Sutherland | Marisa R. Morrow | Cynthia G. Sawyez | Murray W. Huff
(Robarts Research Institute)
Naringenin supplementation to a chow diet enhances energy expenditure, increases RER and maintains lower body weight in pair-fed Ldlr^{-/-} mice
- 11:20- 11:35 AM **Adekunle Alabi** | Faqi Wang | Dawei Zhang
(University of Alberta)
Membrane Type 1 Matrix Metalloproteinase-Induced cleavage of the Low Density Lipoprotein Receptor
- 11:35-12:35 PM **Rubinstein Lecture-** Dr. Kathryn Moore
“Regulation of cholesterol homeostasis by non-coding RNAs”
- 12:35- 2:00 PM **Lunch** (Canadian Room)

Session IV: 2:00- 4:30 PM Oral Presentations (Drawing Room)

Chair: TBD

- 2:00-2:15 PM **Jérôme Robert** | Emily B. Button | Brian Yuen | Megan Gilmour | Kevin Kang | Arvin Bahrabadi | Sophie Stukas | Wenchen Zhao | Iva Kulic | Cheryl L. Wellington
(University of British Columbia)
High-density lipoproteins reduce amyloid-beta-deposition in a novel in vitro model of the human brain vasculature
- 2:15-2:30 PM **Emily A. Day** | Rebecca J. Ford | Brennan K. Smith | Šarka Lhoták | Bernardo L. Trigatti | Richard C. Austin | Morgan D. Fullerton | Gregory R. Steinberg
(McMaster University)
Salsalate Reduces Aortic Plaque Size In An Early Model Of Atherosclerosis Via An AMPK β 1 Dependent Pathway
- 2:30-2:45 PM **Michael A. Iacocca** | Jian Wang | Jacqueline S. Dron | John F. Robinson | Adam D. McIntyre | Henian Cao | Robert A. Hegele

(Robarts Research Institute)

Use of next-generation sequencing to detect copy number variants in the molecular diagnosis of familial hypercholesterolemia

- 2:45-3:00 PM **Mark Trinder** | Mihai Cirstea | Keith R. Walley | James A. Russell | Kelly R. Genga | John H. Boyd | Liam R. Brunham
(University of British Columbia)
Decreased high-density lipoprotein cholesterol level as an early prognostic marker for severe infections that progress into complicated sepsis
- 3:00-3:15 PM **Hong Choi** | Isabelle Ruel | Adel Schwertani | Jacques Genest
(Research Institute of the McGill University Health Centre)
Desmocollin 1 is abundantly expressed in atherosclerosis and impairs HDL biogenesis.
- 3:15- 3:30 PM **Refreshment Break** (Drawing Room foyer)
- 3:30- 4:30 PM **Physician Scientist Lecture-** Dr. Katherine Morrison
“Childhood Obesity: It is not all about the number!”
- 4:30- 6:30 PM **Poster session I** (Canadian Room- Cash Bar)
- 6:30PM **Dinner** (on own)

Saturday, October 21th

- 7:00- 8:30 AM **Breakfast** (Canadian Room)
- 8:30- 9:30 AM **Simon-Pierre Noel Lecture-** Dr. Marica Bakovic (Drawing Room)
“Redefining lipid and energy metabolism via CDP- ethanolamine Kennedy pathway”

Session V: 9:30- 11:05 AM

Mini-symposium “Focus on Ottawa Research”

Chair: Dr. Katey Rayner

- 9:30- 9:55 AM **Dr. Steffany Bennett:** *“Translational lipidomics: Stratifying dementia patients by interrogating their plasma lipidomes - Fact or fiction”*
- 9:55- 10:20 AM **Dr. Erin Mulvihill:** *“Regulation of Post prandial Glucose and Lipid Metabolism: Role of Dipeptidyl Peptidase 4”*

10:20- 10:45 AM **Dr. Benjamin Rotstein:** “*PET Radiotracers for Molecular Imaging of Vascular Inflammation*”

10:45-11:05 AM **Refreshment Break** (Drawing Room foyer)

Session VI: 11:05- 12:30 PM Oral Presentations (Drawing Room)

Chair: TBD

11:05-11:20 AM **Joshua A. Dubland** | Sima Allahverdian | Collin S. Pryma | Kamel Boukais | Ying Wang | Teddy Chan | Gordon A. Francis
(University of British Columbia)
Relative lysosomal acid lipase deficiency in arterial smooth muscle cells as a mechanism for foam cell formation

11:20-11:35 AM **Jenika Marshall** | Emily R. Courage | Madeline N. Fitzpatrick | Ryan F. Elliott | Yanbo Yang | Bronwyn A. Woolfrey | Robert J. Brown
(Memorial University)
Lipoprotein lipase hydrolysis products are associated with Akt signalling in THP-1 macrophages

11:35- 12:30 PM **CLC Young Investigator Award Lecture-** Dr. Katey Rayner
“Live and Let Die: Cell Death by Cholesterol”

12:30- 1:30 PM **Lunch** (Canadian Room)

1:30- 3:30 PM **Poster Session II (Canadian Room- Cash Bar)**

4:30-5:30 PM CLC Business Meeting

6:00- 6:30 PM Cocktail reception

6:30- 9:30 PM **CLC Banquet and Entertainment (Dueling Pianos)** (Laurier Room)

Sunday, October 22nd

Depart