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## AGENDA

# Scientific Symposium – DRAFT\*

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### Thursday, February 11

**7:00 – 8:00 a.m.**      **Registration/Light Breakfast**

**8:00-8:05**              Introduction to Heart + Lung Health FEST 2016

**8:05-8:50**              **Distinguished Speaker in Cardiovascular Medicine**

*Mapping the myocardium's metabolic and cellular function. Navigating with PET*  
Rob Beanlands – University of Ottawa, Canada

**8:50-9:00**              Facilitated Discussion – Jonathon Leipsic, Andrew Krahn

**9:00-9:25**              **7-minute Trainee talks:** Facilitated by Jeremy Hirota

- Trainee Talk – Heart – Brodie Sakakibara
- Trainee Talk – Lung – Steve Booth
- Trainee Talk – Other – Stephanie Santacruz

**9:25-10:25**              **Session 1: Imaging – Multi-scale Imaging of Lung, Heart and Vessel Disease**

- *microCT imaging of COPD lungs* – Dragos Vasilescu, UBC/HLI
- *Excitation-contraction coupling: The dynamic dyad*– Edwin Moore, UBC
- *Lung-Heart imaging interactions* – Jonathon Leipsic, PHC/UBC

Facilitated Discussion – Chairs: Miranda Kirby, Harvey Coxson

**10:25-10:35**              Break

**10:35-11:20**              **David Bates Lecture**

*Multiple benefits to children's health of reducing dependence on fossil fuels*  
Frederica Perera - Columbia University, USA

**11:20-11:30**              Facilitated Discussion – Chairs: Tim Takaro, Christopher Carlsten

**11:30-12:30**              **Session 2: Novel Intervention Strategies to Modulate Inflammation in Lung, Heart and Vessel Disease**

- *Immunomodulatory peptides for heart and lung therapy* – Bob Hancock, UBC
- *Site specific immunomodulators for chronic lung inflammatory disorders and cancer* – Mark Bazett
- *PCSK9 inhibitors for heart and blood vessel disease: How low to go with LDL?*  
Gordon Francis, UBC/HLI

Facilitated Discussion – Chairs: Kelly McNagny, John Boyd

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## AGENDA

- 12:30-1:30**                    **Lunch and Poster Viewing**
- 1:30-3:15**                    **Session 3: At the Nexus of Life Science Research in BC - Collaborations Between Public, Private, and Non-Governmental Organizations**
- 1:30-2:15**                    **Session 3A: The value of public databases will be maximized through private enterprise partnership**
- *Access to public health databases for innovative commercial opportunities*  
Paul Drohan, LifeSciences BC CEO
  - *Maximizing value from health data – The intensification of data analytics for improved delivery of care*  
Wyeth Wasserman, CFRI VP Research
  - *PHEMI's disruptive data technologies for innovative care – a case study*  
Alan Rabinowitz, PHEMI
- 2:15-2:30**                    Facilitated Discussion – Chairs: Helen Burt, Keith Walley
- 2:30-3:15**                    **Session 3B: Personalized medicine – A tangible return on public investment in health care and medical research**
- *The frontier of personalized medicine for heart, lung, and vessel research – What to expect tomorrow*  
Pieter Cullis, Personalized Medicine Initiative
  - *Moving biomarker discoveries beyond the pages of scientific journals and into health care*  
Mari DeMarco, UBC/Providence Health Care
  - *Maximizing impacts by assembling cohorts, sharing data, and practicing open science*  
Marcia MacDonald, Director, Research Programs, Genome BC
- 3:15-3:30**                    Facilitated Discussion – Chairs: Gavin Stuart, Don Sin
- 3:30-4:15**                    **Keynote 3: Alan Bernstein Distinguished Lecture**
- Using Networks to Re-examine the Genome-Phenome Connection*  
John Quackenbush – Harvard T.H. Chan School of Public Health and Dana-Farber Cancer Institute
- 4:15-4:30**                    Facilitated Discussion – Chairs: Fiona Brinkman, Jennifer Gardy
- 4:30**                            **Reception**
- End of Day One.

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## AGENDA

### Friday, February 12 – Day Two

**7:30-8:00** Day 2 Registration/Light Breakfast

**8:00-9:00** **Session 4: Heart Failure and Arrhythmias**

- *Stem cells to treat heart failure and arrhythmias* – Zachary Laksman
- *Innovative intervention on diseased human heart valves – What's happening and what's next?* – Robert Boone
- *After the Heart is "Fixed": Cardiovascular pathology & Biobanking* – Michael Seidman UBC/HLI

Facilitated Discussion – Chairs: Mustafa Toma, Stephanie Sellers

**9:00-10:00** **Session 5: Impacts of Exercise on Heart, Lung and Vessel Disease**

- *Integration of pulmonary, cardiac, and vascular physiology to better understand how exercise impacts COPD* – Jinelle Gelinias, UBC-O
- *Barriers to exercise in patients with fibrotic interstitial lung disease* – Michele Schaeffer, HLI/UBC
- *Pulmonary rehabilitation for management of COPD* – Pat Camp, UBC/HLI

Facilitated Discussion – Chairs: Christopher West, Sarah Koch

**10:00-10:15** Coffee Break

**10:15-11:15** **Session 6: The Only Certainty in Life: Aging – How It Impacts Our Hearts, Lungs, and Vessels**

- *The Aging of the Heart – Interactions between sex and age on heart disease* – Karin Humphries, UBC/ICVHealth
- *The Aging of the Lungs – HAART Therapy and advanced lung aging* - Paul Man
- *The Age of the Vessels* –Liam Brunham, UBC/HLI

Facilitated Discussion – Chairs: Bob Schellenberg, Elena Topchiy

**11:15-12:00** **Graeme Copland Memorial Lecture**

*Interstitial Lung Diseases*

Ganesh Raghu, University of Washington

**12:00-12:15** Facilitated Discussion – Chairs: Chris Ryerson, Sam Wadsworth

**12:15-1:30** **Lunch and Poster Viewing**

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## AGENDA

1:30-2:15

### BC Distinguished Lecture

*An Integrated Approach to Early Detection of Lung Cancer*  
Stephen Lam – UBC/BCCA

2:15-2:30

Facilitated Discussion – Chairs: Jim Hogg, Wan Lam

2:30-3:30

### Session 7: The Establishment of Patient Oriented Research Communities Across Canada for Heart, Lung, and Vessel Research

- *The Canadian Respiratory Research Network* – Mark FitzGerald, UBC/IHLH
- *The Canadian Healthy Infant Longitudinal Development Study* – Stuart Turvey, UBC/CFRI
- *Implementing standardized flow cytometry in multi-centre clinical trials - The Canadian National Transplant Research Program* – Megan Levings/Sabine Ivison

Facilitated Discussion – Chairs: Ed Conway, Mohsen Sadatsafavi

3:30-4:00

### Session 8 – Pro/Con Debate

**Partnering with industry in Canada drives delivery of optimal care for heart, lung and vessel disease**

Chairs: Bruce McManus, Ed Pryzdial

Pro: Denise Daley, UBC/HLI

Con: Chris Carlsten, UBC/VCHRI

4:00-4:15

**Trainee Awards and Closing Remarks.**