

## 11TH ANNUAL HEART + LUNG HEALTH FEST 2019

Scientific Symposium Program



Luxury of Questions, Need for Answers

## PINNACLE HOTEL HARBOURFRONT

**FEBRUARY 7-8, 2019** 

Heart + Lung Health FEST 2019

## Scientific Symposium

## **Event Sponsors**

Thank you to all the sponsors and supporters of Heart + Lung Health FEST 2019!

#### **SILVER**















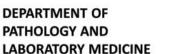


#### **BRONZE**











#### **FRIEND**





## Institute for Heart + Lung Health

Dear Colleagues,

We are so pleased to welcome everyone to Heart + Lung Health FEST 2019.

The over-arching theme for this year's FEST – *Luxury of Questions*, *Need for Answers* – mirrors the incredible diversity of challenges and questions in heart and lung health sciences that requires a comparable diversity of ideas, skills, strategies and collaborations to broach. The dimensions of unknowns in the laboratory, clinic and community require a multi-faceted approach, brought forward by leaders, teams, trainees, staff, patients and partners.

A major inspiration for defining questions and seeking answers rests with the speed and expectancy for improvement in our understanding of science and the harnessing of new knowledge for the benefit of those at risk for suffering from and recovering from illness, respectively. We are in the world of high speed and massive size – high speed trains, high speed planes, high speed and high resolution imaging, voluminous molecular measures, jumbo genetic insights, and supersonic access to data and information! How well we aggregate and analytically harness imaging, engineering, regenerative biology, genomics, sociology, psychology, ethnology, and especially the data and information arising, will directly impact progress in science, medicine and health.

We have chosen four main subthemes for FEST 2019: SEX, GENDER, AGE – HEART + LUNGS – CLINICAL SCIENCE, HEART + LUNGS – BASIC/TRANSLATIONAL SCIENCE, NEW TOOLS & PLATFORMS – HELP FOR HEART + LUNGS, AND SPECIAL OPPORTUNITIES – HELP FOR HEART + LUNGS.

We hope everyone enjoys this year's scientific feast. The greater the participation by faculty, trainees and staff, and by our charitable, governmental and private sector partners, the more energy suffused, the greater the intensity of learning and the deeper our sense of forward momentum as we will build for our multi-nodal community of scholars, innovators and practitioners. We appreciate the leadership originating from all sectors, all institutions, all programs and all disciplines!

We especially want to reflect on the good fortune we experience in our community of learners. We are given the chance to push boundaries of science and applications for better health. There can be few greater luxuries.

Have a great FEST!

Warm regards always,

Bruce McManus	David Granville	Fabio Rossi	Liam Brunham	Ma'en Obeidat
Zachary Laksman	Chris Carlsten	Chris Ryerson	Mark FitzGerald	Jonathan Choy
Paula Piper	Kyle Boyle	Arash Tehrani	Vahid Mehrnoush	Najah Adreak



Message from The Honourable Melanie Mark Hli Haykwhl Wii Xsgaak Minister of Advanced Education, Skills and Training and The Honourable Adrian Dix, Minister of Health





On behalf of our ministries, a very warm welcome to everyone attending the 11th Annual Heart + Lung Health FEST, which is taking place on the traditional territories of the Coast Salish Peoples, including the Musqueam, Squamish and Tsleil-Waututh First Nations.

Events like Heart + Lung FEST foster the collaboration that contributes to the high-quality health care people count on. Your

shared knowledge and experiences help build the next generation of health-care providers and researchers, help foster positive health outcomes and places B.C. on the leading edge of innovation and quality public health-care.

Science and research are key to a sustainable economy and contribute to the health and well-being of us all. B.C. has long been recognized as having some of the best overall health outcomes in Canada. We know the knowledge you gain at this conference will help bring the highest standard of heart and lung care to people throughout our province. Research evidence helps us understand the best approaches to reduce the burden of disease, identify treatments and services that make a difference to people living with chronic conditions; and ensures that the treatments and services funded by our public health system are safe and cost-effective.

Honourable Melanie Mark Hli Haykwhl Wii <u>X</u>sgaak Minister of Advanced Education, Skills and Training Honourable Adrian Dix Minister of Health

## President and Vice-Chancellor, University of British Columbia



Dear Friends.

It gives me great pleasure to welcome you to Heart + Lung Health FEST 2019.

Whether you have traveled thousands of miles to attend or simply walked down the street from St. Paul's Hospital, thank you for bringing your energy, knowledge and compassion to discuss science, medicine and health issues that require our very best collaborative efforts. The work that you do affects all of us – regardless of where we live, whether we are young or old, rich or poor.

Heart and lung disease create immense financial, social and health burdens – for patients, for their families and for society. FEST is an important venue where new ideas, concepts and information can be shared, discussed and refined. It is a forum for a convergence of minds from a wide range of sectors, disciplines and perspectives to engage in dialogue.

The University of British Columbia benefits from many of the brightest and boldest scholars, scientists and trainees in this field. We recognize the rich dimensionality in the heart and lung sciences that spans several UBC faculties, reaching into our greater community as well as creating collaborative efforts with other institutions of higher education and health agencies. FEST is a reflection of a tradition of exceptional performance in laboratories, classrooms, clinics and communities by dedicated professionals, each of whom challenges the risks and adverse consequences of heart and lung diseases.

I hope that you will enjoy your deliberations, taking full advantage of this opportunity to bridge, connect and innovate with your peers.

Professor Santa J. Ono President and Vice-Chancellor The University of British Columbia

# Vice-President, Research & Innovation University of British Columbia



I am delighted to welcome you to Heart + Lung Health FEST 2019.

Tackling the devastating impacts of heart and lung diseases is a key issue facing our society. Such complex and multi-faceted problems require not just collaboration across disciplines, but also collaborations between local, national and international partners spanning health, academic, government, non-profit and industry sectors. I would like to thank the organizing and programming committee for once again developing a rich and exciting opportunity for us to work and learn together.

I am proud that researchers at UBC and its affiliated teaching hospitals are playing a significant role in developing new approaches and treatments to these diseases. Supporting and enabling research discoveries to improve health outcomes reflects the themes of collaboration and innovation that run throughout UBC's strategic plan, and events such as Heart + Lung Health FEST are an important part of this process. I encourage us all to expand and strengthen our many collaborations and partnerships as we share and exchange exciting new ideas, findings and opportunities.

Gail C. Murphy, PhD, FRSC Vice-President Research & Innovation Professor, Computer Science The University of British Columbia

## Faculty of Medicine, University of British Columbia



On behalf of the Faculty of Medicine at the University of British Columbia, I am delighted to welcome you to Heart and Lung Health FEST 2019, with this year's theme of "Our Luxury of Questions, The Need for Answers" hosted by the Institute for Heart + Lung Health.

As we all know, heart and lung health are critical to the wellbeing of British Columbians and the threats to such wellbeing were made clearly evident to all of us during the wildfires of last summer. Heart and Lung Health is also one of the five research priorities identified in the Faculty of Medicine's Strategic Plan: Building

the Future. FEST represents a really unique opportunity for our BC research community to hear the latest developments in this important research area, to encounter new concepts, to make new contacts, to forge new collaborations and most importantly to think about how we respond to the challenges of heart and lung health for the benefit of our patients and our population in a warm and collegiate environment. We are especially delighted that our UBC President, Prof Santa Ono will be delivering the annual Alan Bernstein lecture at this year's FEST.

Heart and Lung Health FEST 2019 provides a rich, interactive and stimulating program with discussion topics including: the impact of gender and age on heart and lung health, the interface between basic and translational science and the importance of new tools and platforms in advancing knowledge in an innovative way. In addition, there are important poster viewing sessions so that the work of our students and trainees can be highlighted in the usual enthusiastic and "rambunctious" fashion at this meeting.

I look forward to this two day knowledge-sharing symposium that showcases our interdisciplinary research and its impact which will transform the health for everyone. I know that all of you will leave the meeting inspired by these new perspectives and encouraged to develop new insights in heart and lung health.

Best regards,

Dermot Kelleher MD, FRCP, FRCPI, FMedSci, FCAHS, FRCPC Professor, Department of Medicine Dean, Faculty of Medicine Vice President, Health University of British Columbia



## Child & Family Research Institute



On behalf of the BC Children's Hospital Research Institute, we would like to welcome leading scientists, clinicians and guests to the Heart + Lung Health FEST 2019. This year's programme showcases the leading edge cardiovascular and respiratory research occurring in British Columbia and beyond through four days of educational events.

Heart and lung disease affects the whole spectrum of the population – from young children to the elderly. At FEST, leading scientists and clinicians are connecting and

sharing knowledge to improve the outcomes and quality of life for Canadians dealing with heart and lung diseases, and others around the world.

We hope you enjoy the engaging schedule of events at FEST 2019.

Wyeth W. Wasserman, Ph.D.

Executive Director, BC Children's Hospital Research Institute
Associate Dean for Research, Faculty of Medicine
Senior Scientist, Centre for Molecular Medicine and Therapeutics
Professor, Department of Medical Genetics
University of British Columbia
Vancouver BC, Canada

## The British Columbia Lung Association

The BC Lung Association is but one member of a family of difference makers dedicated to helping British Columbians breathe easier. We know to affect real and lasting change takes a caring a committed community with a shared vision – and we are so proud to share that vision with the many presenters and participants in this year's Heart + Lung Health FEST hosted by the Institute for Heart + Lung Health.

This year's edition provides an outstanding forum for patients, staff, trainees, clinicians and researchers working in a variety of fields related to lung and heart health to connect through their common interests in heart and lung health and disease.

The 2019 Heart + Lung Health FEST is an excellent opportunity for teaching, learning and interaction and we are very grateful to everyone whose combined efforts have made this event possible.

Thank you!

Christopher Lam President and CEO BC Lung Association



### Heart and Stroke Foundation



Welcome! Heart & Stroke is proud to be a part of Heart + Lung Health FEST 2019, and to help foster discussion and greater understanding about cardiovascular and respiratory diseases.

For more than 60 years, Heart & Stroke has worked to advance research, raise awareness and improve prevention and treatment. In 2014, we made a \$300 million commitment to fund Canadian cardiovascular research across the country over 10 years. This encompasses some of the world's leading research-- much of it happening

right here in BC. We are ever aware of the need to achieve the greatest result from each donated dollar. Supporting research is an investment in advancing our knowledge and treatment of heart disease and stroke – diseases that have touched the lives of nearly every Canadian.

Heart + Lung Health FEST 2019 is an opportunity for leaders in the cardiovascular and respiratory fields to share knowledge, ideas and inspiration, find solutions together and help more Canadians sooner.

Irene Chanin CEO, BC & Yukon Heart and Stroke Foundation

# Providence Health Care & Providence Health Care Research Institute



On behalf of Providence Health Care and Providence Health Care Research Institute, we are thrilled to welcome all attendees to the 2019 Heart + Lung Health FEST. We are proud to support this gathering event year after year, and to see its continued success and growth.

The Heart + Lung Health FEST has become an essential part of the heart, lung and vascular health community of BC. For researchers, students, staff and health care professionals both seasoned and new, this is a scaffold on which our diverse

community can connect, to share knowledge, to form new partnerships, and just as importantly, to recognize and celebrate recent successes.

It is more important than ever to push the envelope and leverage the expertise of all our health partners across disciplines and sectors, to face the scientific, systemic and health care challenges together. We are optimistic that our collaborative efforts will lead to new ideas and better integration of new approaches to overcome such challenges.

As always, we are grateful to the Institute for Heart and Lung Health and the FEST Program and Planning Committee for making this event a reality. We are also thankful for the support of staff and attendees, and for all supporting organizations and units.

Together, we can shape the future of our health science and healthcare system, and, more important, have positive global impacts on the health and wellness of individuals and families.

Most sincerely,

Fiona Dalton
President and CEO
Providence Health Care

# Vancouver Coastal Health & Vancouver Coastal Health Research Institute





On behalf of Vancouver Coastal Health and the Vancouver Coastal Health Research Institute, we are delighted to welcome you to Heart + Lung Health FEST 2019.

Health research undertaken at Vancouver Coastal Health directly impacts the cardiovascular and respiratory health of British Columbians. The physical and psychological effects of heart and lung diseases demand the translation and application of research

findings into improved therapeutics, devices and preventive strategies. FEST offers an excellent opportunity for the local, national and international heart and lung community to explore new ideas and integrative approaches to overcome the health challenges we face with every breath and heartbeat.

This year, FEST offers a thought-provoking program—linking basic science with clinical innovation, examining tools and platforms in search of new discovery, and exploring sex and gender differences in heart and lung health. We encourage health care professionals, researchers, clinicians, students and industry leaders to collaborate in the effort to prevent and eliminate the oppressive burden of heart, lung and vascular diseases.

We hope you will enjoy this symposium and make the most of the opportunity to connect, innovate and engage with leading scientists and clinicians in the heart and lung community.

Mary Ackenhusen President & CEO Vancouver Coastal Health Dr. Robert McMaster Vice President Research, Vancouver Coastal Health Executive Director, VCH Research Institute



#### Heart + Lung Health FEST 2019

### Speaker & Chair List (in alphabetical order)



Shawn Aaron
Senior Scientist, Clinical Epidemiology Program,
Ottawa Hospital Research Institute
Chief, Division of Respiratory Medicine,
The Ottawa Hospital
Professor, Division of Respirology,



Eric Accili
Associate Professor/Member
Cardiovascular Research Group
(Life Sciences Institute)

University of Ottawa



John Boyd Associate Professor, Critical Care Medicine, Faculty of Medicine, University of British Columbia



Annie Chou
Director of General Cardiology,
St. Paul's Hospital
Cardiologist,
Vancouver General Hospital
Clinical Instructor,
University of British Columbia



Mark FitzGerald

Professor of Medicine,
University of British Columbia
Co-Director,
Institute for Heart and Lung Health



**Suzanne Gill**VP, Government Relations and Public Affairs
Digital Technology Supercluster



Jordan A. Guenette
Associate Professor,
Department of Physical Therapy,
University of British Columbia
Associate Director,
Centre for Heart Lung Innovation



James G. Abel
Clinical Professor and Head,
Division of Cardiovascular
and Thoracic Surgery,
Providence Health Care,
St. Paul's Hospital,
University of British Columbia



Jamil Bashir
Clinical Associate Professor,
University of British Columbia
Division of Cardiovascular Surgery,
St. Paul's Hospital
Surgical Director Laser Lead Extraction,
BCMA Section Head



Scientific Director,
BC SUPPORT Unit,
BC Academic Health Science Network
Professor,
School of Population & Public Health,
University of British Columbia



Margot Davis
Clinical Assistant Professor,
UBC Cardiology
Director,
UBC Cardiology-Oncology Program



Gordon Francis

Professor of Medicine/ Director,
Healthy Heart Program Prevention Clinic,
Centre for Heart Lung Innovation,
University of British Columbia
& St. Paul's Hospital



Jasmine Grewal
Associate Professor,
University of British Columbia
Director, Cardiac Obstetrics,
University of British Columbia
Associate Director of Echocardiography,
St. Paul's Hospital



Tillie-Louise Hackett
Associate Professor,
Department of Anesthesiology,
Pharmacology & Therapeautics
Principle Investigator,
Centre for Heart Lung Innovation,
University of British Columbia

#### SPEAKER & CHAIR LIST (cont'd)



Jim Hogg Emeritus Professor of Pathology and Laboratory Medicine, UBC James Hogg Research Centre, St. Paul's Hospital



Marc Horowitz

Professor, Academic Director, ACS
Sauder Chair of Pediatric Virology
Co-leader, Infection, Inflammation & Immunity Research
Group, Department of Microbiology and Immunology,
University of British Columbia



**James Johnson**Professor, Medicine,
University of British Columbia
Editor-in-chief, Islets



Marla Kiess
Director, Pacific Adult Congenital Heart Clinic
Director, Electrodiagnostic Laboratory,
Heart Centre, Providence Health Care
Clinical Professor of Medicine and Radiology,
University of British Columbia



Andrew Krahn
Sauder Family and Heart and Stroke
Foundation Chair in Cardiology
Paul Brunes Chair in Heart Rhythm Disorders
UBC Division of Cardiology Chief



Richard Leigh

Professor and Head, Department of Medicine
Cumming School of Medicine
University of Calgary and Alberta Health Sciences



Kelly McNagny
Professor of Medical Genetics
and Biomedical Engineering,
University of British Columbia
Associate Scientific Director,
AllerGen NCE
Member of Stem Cell NCE



Pamela Hoodless
Professor,
Medical Genetics, UBC
Distinguished Scientist,
Terry Fox Laboratory, BC Cancer



Karin Humphries
Scientific Director,
BC Centre for Improved Cardiovascular Health
Associate Professor,
UBC Faculty of Medicine
UBC-HSF Professor in Women's Cardiovascular Health



**Dermot Kelleher**Professor, Department of Medicine
Dean, Faculty of Medicine
Vice President, Health,
University of British Columbia



**Ji-Young Kim**Assay Development Scientist, PROOF Centre of Excellence



**Zach Laksman**St. Paul's Hospital, Vancouver General Hospital,
Simon Fraser University, University of British Columbia
Centre for Heart Lung Innovation



Jonathan Leipsic

Professor of Radiology and Cardiology,
University of British Columbia



Raymond Ng
Director, Data Science Institute
Professor, Computer Science,
University of British Columbia
Chief Informatics Officer,
PROOF Centre of Excellence

#### SPEAKER & CHAIR LIST (cont'd)



Maen Obeidat

Assistant Professor,
Division of Respiratory Medicine
Fellow of the Parker B Francis Foundation



**Santa Ono** President and Vice-Chancellor, University of British Columbia



Andre Picard
Health Columnist,
The Globe and Mail



Barbara Sampson
Chief Medical Examiner,
City of New York
Chair and Professor,
Department of Forensic Medicine,
NYU Langone School of Medicine



Casey Shannon
Computational Biologist,
PROOF Centre of Excellence



Carolyn M. Taylor
Division of Cardiology,
St. Paul's Hospital
Medical Director,
Healthy Heart Program
Clinical Associate Professor,
University of British Columbia



Dragos Vasilescu
Associate Director,
Cellular Imaging and Biophysics Core,
UBC Centre for Heart Lung Innovation,
St. Paul's Hospital



John Webb

Director Interventional Cardiology,
St. Paul's Hospital
McLeod Professor of Heart Valve Innovation,
University of British Columbia



Ciara O'Flanagan
Postdoctoral Research Fellow,
BC Cancer Agency



Lisa Osborne
Assistant Professor,
Canada Research Chair (Tier 2)
in Host-Microbiome Interactions,
Department of Microbiology & Immunology



Fabio Rossi

Director of Research,
UBC School of Biomedical Engineering
Scientific Director, BC Reg Med Initiative
Professor in Medical Genetics
Director, The Biomedical Research Centre,
University of British Columbia



Tara Sedlak
Cardiologist,
Vancouver General Hospital
Medical Director,
Leslie Diamond Women's Heart Health Clinic
Clinical Associate Professor,
University of British Columbia



Don Sin

InterimVP Research and Academic Affairs,
Providence Health Care
Interim President, PHCRI
Director and De Lazzari Family Chair,
Centre for Heart Lung Innovation, St. Paul's Hospital
Professor of Medicine,
University of British Columbia



Stuart Turvey

Canada Research Chair in Pediatric Precision Health
Aubrey J. Tingle Professor of Pediatric Immunology
Professor, University of British Columbia
Department of Pediatrics,
Division of Allergy & Immunology



Samuel Wadsworth
Chief Scientific Officer,
Aspect Biosystems



#### **AGENDA**

## FEST Scientific Symposium

### Thursday, February 7th 2019

7:00-7:55 am	On-Site Registration/Breakfast/Poster Set Up
8:00-8:09 am	Welcome from the FEST Program Committee
8:10-8:20 am	Opening Remarks Dean Dermot Kelleher, Faculty of Medicine, UBC
MORNING THEME -	- SEX, GENDER, AGE – HEART + LUNGS – CLINICAL SCIENCE
8:25-8:40 am	How do sex hormones affect heart/lung health? — John Boyd and Tara Sedlak
8:40-8:50 am	Can we protect the heart/lungs from chemotherapy? – Margot Davis
8:50-9:05 am	Sex and gender issues for cardiology/respirology? — Annie Chou and Maen Obeidat
9:05-9:15 am	What are the issues in heart/lung surgery for the sexes? – Jamil Bashir
9:15-9:25 am	Sex differences in adult congenital heart disease? – Jasmine Grewal
9:25-9:35 am	Major differences in imaging heart/lungs of the sexes? — Jonathon Leipsic
9:35-9:45 am	Are the sexes similar in their respiratory responses to exercise? – Jordan Guenette
9:45-10:15 am	Health Break
10:15-10:45 am	Panel Discussion – What are the major scientific and clinical issues related to age, sex, gender in heart + lungs? How might we better address these in British Columbia? Moderated by Marla Kiess and Karin Humphries
10:45-11:45 pm	Graeme Copland Memorial Lecture — Shawn Aaron Moderated by Mark Fitzgerald
11:45-1:15 pm	Lunch and Rapid-fire Poster Podium Snapshots



#### **HEART + LUNG SCIENTIFIC SYMPOSIA AGENDA**

#### AFTERNOON THEME - HEART + LUNGS - BASIC/TRANSLATIONAL SCIENCE

1:15-1:30 pm	The developing heart – what's new and true? – Pamela Hoodless
1:30-1:45 pm	Injury of young lungs – mechanisms and consequences? – Kelly McNagny
1:45-2:00 pm	A human cardiac myocyte model for drug testing? — Zach Laksman
2:00-2:15 pm	Hyperinsulemia, diabetes and the heart – what's new? – James Johnson
2:15-3:00 pm	New horizons in small airways biology – cell enumeration? – Tillie Hackett
3:00-3:15 pm	Normal cardiac cell pacing – Does HCN have help? – Eric Accili
3:15-3:30 pm	Foam cells in arterial walls – Do SMCs rule the roost? – Gordon Francis
3:30-3:45 pm	Biomarkers for understanding asthma – what's new? – Ji-Young Kim
3:45-4:45 pm	Health Break and Boisterous Poster Viewing and Judging
4:45-5:45 pm	British Columbia Distinguished Lecture — John Webb Moderated by Andrew Krahn and Jim Abel
5:45-7:00 pm	Reception and Rambunctious Poster Viewing



#### **HEART + LUNG SCIENTIFIC SYMPOSIUM AGENDA**

#### Friday, February 8th 2019

7:00-7:55 am	On-site Registration/Breakfast
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8:00-8:15 am Reflections on Day I, Forecast for Day 2

Don Sin, Director, UBC Centre for Heart Lung Innovation

#### MORNING THEME - NEW TOOLS & PLATFORMS - HELP FOR HEART + LUNGS

8:15-8:30 am	New, old and revised data analytics tools for complex data? – Casey Shannon
8:30-8:45 am	Harnessing special hosts and viruses to distill viral disease? – Marc Horwitz
8:45-9:00 am	Horizons in tools to understand the human microbiome? – Lisa Osborne
9:00-9:15 am	What is so special about CyTOF as an investigative platform? – Fabio Rossi
9:15-9:30 am	Data science and health science – what frontier is upon us? – Raymond Ng
9:45-10:00 am	Single cell sequencing – why excitement and what cautions? – Ciara O'Flanagan
10:00-10:30 pm	Health Break
10:00-10:30 pm 10:30-11:15 am	Panel Discussion – Are we limited more by availability of tools and platforms or by good questions in our search for answers in science? How can we as a community be more effective and accelerated in leading-edge scientific pursuit in laboratories, clinics or communities? – Moderated by Samuel Wadsworth and Stirling Bryan
	Panel Discussion – Are we limited more by availability of tools and platforms or by good questions in our search for answers in science? How can we as a community be more effective and accelerated in leading-edge scientific pursuit in laboratories,

#### 12:15-1:00 pm Lunch and Untrammeled Poster Viewing and Judging

#### AFTERNOON THEME - SPECIAL OPPORTUNITES - HELP FOR HEART + LUNGS

1:00-1:30 pm	How can BC augment engagement	with the	Canadian	Cardiovascul	ar Society?	
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- Andrew Krahn

1:30-2:00 pm What does a medical examiner's office have to do with science?

Barbara Sampson



#### **HEART + LUNG SCIENTIFIC SYMPOSIUM AGENDA**

2:00-2:30 pm	Why should journalists and scientists be partners? Why not?  — Andre Picard
2:30-3:00 pm	How does the Canadian Digital Technology Supercluster engage industrial, academic and healthcare institutions? — Suzanne Gill
3:15-3:30 pm	Health Break
3:30-4:30 pm	David Bates Lecture — Richard Leigh Moderated by Jim Hogg and Dragos Vasilescu
4:30-5:00 pm	Poster Celebration and Awards
5:00 pm	Closing Comments and Appreciations

### Heart + Lung Health FEST 2019

## Poster List

Akata, Kentaro	COPD shifts alveolar macrophage polarization towards senescence phenotype
Castillo, Daniela	Quantitative CT in systemic sclerosis-associated interstitial lung disease
Cheung, Chris	Novel investigative tools in the assessment of inherited arrhythmias
Desai, Sameer	Predictors of lung function decline in adult-diagnosed cystic fibrosis
Du, Darson	Improving sudden death risk stratification in hypertrophic cardiomyopathy
He, Daniel	Detection of blood biomarkers of the late phase asthmatic response in sputum
Herrington, Brandon	Elevated lipoprotein (a) correlates with increased atherosclerotic disease severity in a very premature coronary artery disease cohort
Hossain, Al Rohet	Characterizing NEPN signaling axis to diagnose viral myocarditis
Ikezoe, Kohei	MDCT analysis in patients with interstitial lung disease
lp, Jenny	Risk perception intervention to promote smoking cessation among adult current smokers
Jung, David	Utility of CRP to diagnose exacerbations in CF patients
Kallas, Dania	Are younger CPVT patients the most severely affected?
Kim, Ji-Young	Analytical validation of HEARTBiT: A blood-based multiplex gene expression profiling assay for exclusionary diagnosis of rejection in heart transplant patients
Kuan, Mimi	Congenital heart disease: aortic stiffness and physical activity
Kwong, Eugenie	Impact of cystic fibrosis-related diabetes on quality of life
Leong, Jeffrey	Wearable devices to manage chronic obstructive pulmonary disease
Leung, Alex	Modulation of vascular endothelial inflammatory response by PCSK9
Liang, Li Ping	The role of culture and trust in smoking cessation in Chinese communities
Liu, Huitao	MiRNA-based modification enhances oncolytic CVB3's tumor-specificity towards NSCLC/ SCLC



## POSTER LIST (cont'd)

Maiorino, Jessica	Co-designing hearthub.ca: information resources for patients, by patients
Mohamud, Yasir	Enterovirus subverts autophagy through cleavage of fusion adaptor proteins and selective autophagy receptors
Molgat-Seon, Yannick	Skeletal muscle morphology in patients with interstitial lung disease
Montgomery, Ashani	IL-6 receptor expression on T cells is required for donor-specific antibody generation towards vascular transplants
Nazareth, Ashleigh	Inhaled corticosteroids and quality of life in COPD
Niusha, Shanay	Applying asthma and COPD patients' perspective to initial validation of a functional-based Health Literacy (HL) measurement tool
Peng, Jasmine	ERBB4 as a diagnostic biomarkers for viral myocarditis
Poureslami, Iraj	Smoking-cessation practices among English and Chinese speaking smokers
Samra, Simran	Blood biomarkers of allergic rhinitis
Sergeev, Valentine	Long-term effectiveness and rates of treatment discontinuation following the initiation of lumacaftor-ivacaftor in adults with CF: a single center experience
Shum, Jessica	A functional-based asthma/COPD health literacy measurement tool
Siedlecki, Anna	Evaluations peripheral blood eosinophilia and health outcomes in CF
Singh,Amrit	Omics Central: an omics data analytics platform
Tam, Anthony	Cholinergic receptor nicotinic alpha 5 expression in the airways of patients with chronic obstructive pulmonary disease
Tauh, Keerit	Granzyme K: a novel player in cardiac allograft vasculopathy
Tehrani, Arash	Inhibition of marfan-associated aortic root dilation independent of blood pressure
Tregobov, Noah	Effects of culturally sensitive consultations on smoking cessation
Trinder, Mark	Mutation status is an independent risk factor for cardiovascular disease in familial hypercholesterolemia
Vikulova, Diana	Premature ASCVD: Cardiovascular risk and primary prevention eligibility



## POSTER LIST (cont'd)

Walia, Jagdeep	Procainamide SAECG provocative testing for possible Brugada Syndrome
Wong, Alyson	Impact of comorbidites on progression of IPF
Woo, Marcus	Effect of a culturally-tailored smoking cessation for Chinese-Canadian smokers
Xu, Feng	COPD And IPF mechanism comparison using expression profiles
Xue,Tim	Enteroviral infection leads to TDP-43 pathology in mouse brain
Yee, Lauren	Hearts in rhythm organization: research registry and biobank
Zeglinski, Matthew	Soluble wood smoke compounds promote epithelial barrier dysfunction
Zhao, Guangze	Coxsackievirus B3-induced reduction of intercalated disc proteins in viral pathogenesis
Zheng, Annie	Pre-operative mood symptoms and surgical complications: a prospective cohort study

## Join the Heart + Lung Community!

## You're Invited! Heart + Lung Reception & Mixer

Join researchers, clinicians, trainees & health leaders to network, catch-up with colleagues and discuss what is underway in heart + lung research in BC and beyond!

5:45p.m. – 7:00 p.m., Thursday February 7<sup>th</sup>, 2019 Pinnacle Hotel Harbourfront 1133 West Hastings Street, Vancouver BC

This special reception will succeed the 2019 British Columbia Distinguished Lecture featuring Dr. John G. Webb, McLeod Professor of Heart Valve Innovation

Trainee Posters | Hors d'oeuvres | Cash Bar





#### Heart + Lung Health FEST 2019

## Thank you!

Thank you to all of the speakers, chairs, panelists and everyone who helped to make a dynamic and engaging Heart + Lung Health FEST program!

#### Poster Committee:



Arash Tehrani



Vahid Mehrnoush



Kyle Boyle



Najah Haldreak

#### IT/AV Support:

Dean English Kyle Johnson Joe Comeau Andrew Farris Nghia Tran



#### Pinnacle Hotel Harbourfront:

PINNACLE HOTEL
HARBOURFRONT

Catering and Convention Services The PSAV Team The FMAV Team Kitchen and Banquet Team

#### Program Design:



Danilyn Stokoe







## Luxury of Questions, Need for Answers

## PINNACLE HOTEL HARBOURFRONT

**FEBRUARY 7-8, 2019** 



HEART + LUNG HEALTH FEST 2019 FEST.HEARTANDLUNG.CA