



## **Summary Dr. Tillie-Louise Hackett**

Dr. Tillie-Louise Hackett, PhD, ATSF,  
Tier I Canada Research Chair in Asthma and COPD Lung Pathobiology & Therapeutics  
Professor, Department of Anesthesiology, Pharmacology & Therapeutics, University of British  
Columbia  
Director, James Hogg Lung Biobank

During Bronchitis XI, Dr. Hackett's talk will focus on how spatial imaging is helping to understand the heterogeneity of inflammation and fibrosis in asthma and COPD. Dr Hackett's research approach uses ultra-resolution imaging to detect microscopic early disease, which is undetectable using current clinical tests, and to investigate the underlying cellular, molecular, and genetic abnormalities responsible for disease pathobiology. With this knowledge, Dr Hackett and her team hope to provide new approaches to diagnose and discover new treatments, to improve the quality of life of patients with lung disease.

Dr. Tillie Hackett obtained her PhD in cellular physiology and pharmacology from the University of Southampton, U.K., in 2006. She completed her postdoctoral training at the University of British Columbia and the University of Groningen, the Netherlands, and was recruited to the Department of Pharmacology & Therapeutics as an Assistant Professor in 2013.

Dr. Hackett is an internationally-recognized leader in ultra-resolution biomedical imaging modalities and human in vitro models to investigate and treat the pathobiology of asthma and Chronic Obstructive pulmonary disease (COPD). Her research has shown the detrimental loss of small airways that occurs by the time a patient is diagnosed with mild COPD, which has prompted a new global Lancet commission, for the prevention, early diagnosis, and treatment of COPD.

Dr. Hackett's research has been formally recognized by over 35 awards, including the Parker B. Francis Fellowship (2012), Inaugural American Thoracic Society Fellow (2018), Tier I Canada Research Chair in Asthma and COPD Lung Pathobiology & Therapeutics and AllerGen's Michelle Harness award for Mentorship (2024). Dr. Hackett has published over 128 peer-reviewed articles and ranks in the top 0.1% of 157,339 published authors worldwide on obstructive lung diseases (Expertscape.com).