



Centre for  
**Heart Lung Innovation**  
UBC and St. Paul's Hospital

## Centre for Heart Lung Innovation Research in Progress (R.I.P.)



### Investigating heterogeneity of small airways disease in asthma

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PhD Student  
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Monday, Nov 14<sup>th</sup>, 2022  
9:00 – 10:00 a.m.

**Gourlay Conference RM 103**  
**Zoom Video Conference**  
(Meeting ID: 693 1997 7044; Passcode: 030679)

*"Asthma is a serious world-wide public health problem, with an estimated 235 million people suffering with asthma. To date clinical trials have established that treatment with bronchodilators and inhaled steroids can relieve patient symptoms but these treatments are unable to reverse the disease process. Asthma patients have difficulty breathing as their airways become partially scarred and the airflow is blocked by mucus plugs. The goal of our study is to identify the disease drivers that cause airway remodeling and mucus plugging in asthma patients and to identify new therapies to prevent the disease. To do this, we are analyzing a unique set of donated human lungs first with the microCT to understand how the airway remodeling and mucus plugging occurs throughout the asthmatic lung. We are also quantifying the airway remodeling on mucus plugged airways, then performing single cell imaging to understand the cellular composition."*

*This event is a Self-Approved Group Learning Activity as defined by the Maintenance Certification Program of the Royal College of Physicians and Surgeons of Canada*



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