



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

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

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### Investigation of the role of miR-146a in the regulation of fibrosis in chronic obstructive pulmonary disease

**Kauna Usman**  
PhD Candidate  
Tillie-Louise Hackett

Monday, February 8<sup>th</sup>, 2021  
9:00 – 10:00 a.m.

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

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*“Chronic obstructive pulmonary disease (COPD) is the only chronic disease that is increasing in incidence and economic burden worldwide. The disease affects the ability of patients to breathe due to a chronic inflammatory and remodeling process that leads to loss of lung tissue. Genetic studies have shown that multiple genes each with a small effect size are involved in the chronic inflammatory and remodeling pathologies in COPD. In other organs, miRNAs have been shown to control >60% of the human genome. In my project, I want to understand if epigenetic regulation of gene networks by non-coding RNAs, specifically micro-RNAs, is involved in COPD pathology. Previous work in the lab has shown that miR-146a is important in regulating chronic inflammation in COPD. In my current studies, I intend to assess the role of miR-146a in airway remodeling through the regulation of the fibrotic cytokine Transforming Growth Factor $\beta$ .”*

*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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