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

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

Multi 'Omics Profiling of the HIV Airway Epithelium: Integration of the Microbiome, Transcriptome and Methylome

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Monday, May 3rd, 2021
9:00 – 10:00 a.m.

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

"Chronic Obstructive Pulmonary Disease (COPD) is characterized by airflow obstruction resulting in shortness of breath and excess mucous production. Well-known risk factors of COPD include tobacco smoking, occupational exposure to dusts and chemicals, age, and alpha-1-antitrypsin deficiency. However, it is now known that people living with HIV (PLWH) are more susceptible to developing COPD, independent of other risk factors. Increased respiratory burden in PLWH is marked by excessive tissue destruction, severe inflammation and significant disturbances in the resident microbial diversity, all of which further propagate one another and the course of the disease. We hypothesize that changes in the microbial architecture can impact transcriptomic and epigenetic responses in the host, and can altogether have on the increased disease burden in PLWH."

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