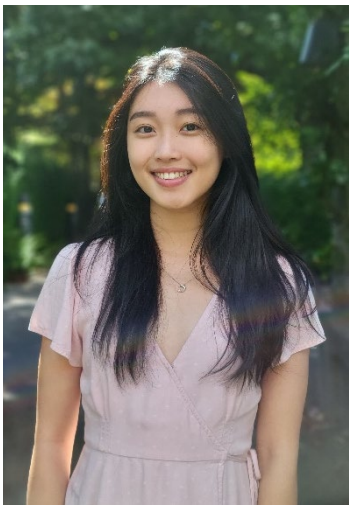
Centre for
Heart Lung Innovation
UBC and St. Paul's Hospital

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



Identification of Prognostic Airway Epithelial Biomarkers for HIV-Associated Chronic Obstructive Pulmonary Disease

Nina Huang
MSc Student
Dr. Janice Leung

Monday, May 1st 2023
9:00 – 10:00 a.m.

James Hogg Conference Centre RM 103
Zoom Video Conference
(Meeting ID: 693 1997 7044; Passcode: 030679)

"Advances in antiretroviral therapy have allowed people living with HIV (PLWH) to live longer lives. As a result, PLWH are developing more age-related diseases, including chronic obstructive pulmonary disease (COPD), which is a lung disease often associated with smoking and is contributing to the overall mortality of PLWH. To improve current methods for predicting adverse clinical outcomes in this population, our study focused on identifying features in the bacteria resident in the lungs and changes along the genome known as methylation in the airway that can be used for risk assessment in HIV-associated COPD. Our results showed that several disease-associated microorganisms were associated with mortality risk, including Streptococcus and Veillonella. We also identified that death-associated methylation changes enriched cancer- and aging-related biological pathways. Bacterial features showed strong performance in predicting death. Further validation is required to confirm the performance of these biomarkers."

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