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

GenePro-ILD: A systematic review and integrated meta-analysis of interstitial lung disease transcriptomics

Daniel He
PhD Candidate
Dr. Scott Tebbut/Chris Ryerson

Monday, April 26th, 2021
9:00 – 10:00 a.m.

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

"Fibrotic interstitial lung diseases (ILDs) are a group of >200 diseases characterized by build-up of fibrotic material in the lung, resulting in impaired gas exchange and reduced lung function. Numerous studies have generated whole genome expression profiles of individual ILD subtypes through the use of high-throughput 'transcriptomics' technologies measuring the entire genome, identifying numerous molecular changes reflecting ILD pathophysiology. However, a consensus on aberrant molecular processes that differ between ILD subtypes has yet to be determined; transcriptomics studies are limited by small sample sizes due to the high processing costs associated with sequencing technology. To address this gap in knowledge, we screened 5,337 publications and identified 33 relevant studies. Of the 17 studies with IPF lung samples, we identified a gene classifier comprised of 30 genes that could differentiate between IPF and healthy samples, the majority of which were involved in fibrotic processes."

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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