



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

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



Identification of diagnostic biomarkers of frontotemporal dementia

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9:00 – 10:00 a.m.

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

“Frontotemporal dementia (FTD) is the most common dementia under the age of 60. Doctors highly desire markers that identify FTD as it is difficult to distinguish FTD from related dementias. TDP-43 is the most common pathological protein in FTD; however, the unique structures of TDP-43 found in FTD remain unknown. With this in mind, we performed high resolution mass spectrometry analysis of human brain tissue from cases of FTD, related dementias to unaffected controls. This analysis revealed concentrations of modified-TDP-43 could separate FTD from related dementias and controls. We then verified these findings in a larger cohort using an independent targeted mass spectrometric method. Clarity on the identity of disease-specific TDP-43 proteoforms in FTD will be helpful in advancing diagnostic and drug discovery efforts for disease where there currently exist no disease-specific 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



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