



COMBINED SEMINAR SERIES

Department of Biochemistry, Microbiology & Immunology
and PRISM Research Centre

Thursday, March 13, 2025

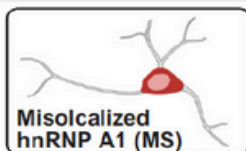
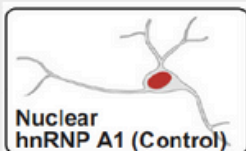
11:30 am - 12:30 pm

HLTH 1B11

**The contribution of RNA binding protein
dysfunction and altered RNA metabolism
to the pathogenesis of multiple sclerosis:
a mechanistic and therapeutic approach**

Dr. Michael C. Levin (MD)

Saskatchewan MS Clinical Research Chair
Professor of Anatomy, Physiology, and Pharmacology & Neurology



Neurodegeneration – the death and damage to neurons and axons – is the primary cause of permanent disability in MS, yet none of the current MS treatments inhibit neurodegeneration. In this talk, Dr. Levin will describe the hypothesis that mislocalization of the RNA binding protein hnRNP A1 from its homeostatic location in the nucleus to the cytoplasm of neurons triggers neurodegeneration, which can be inhibited by novel drugs targeting hnRNP A1, which maintain hnRNP A1's nuclear location and decrease neurodegeneration.