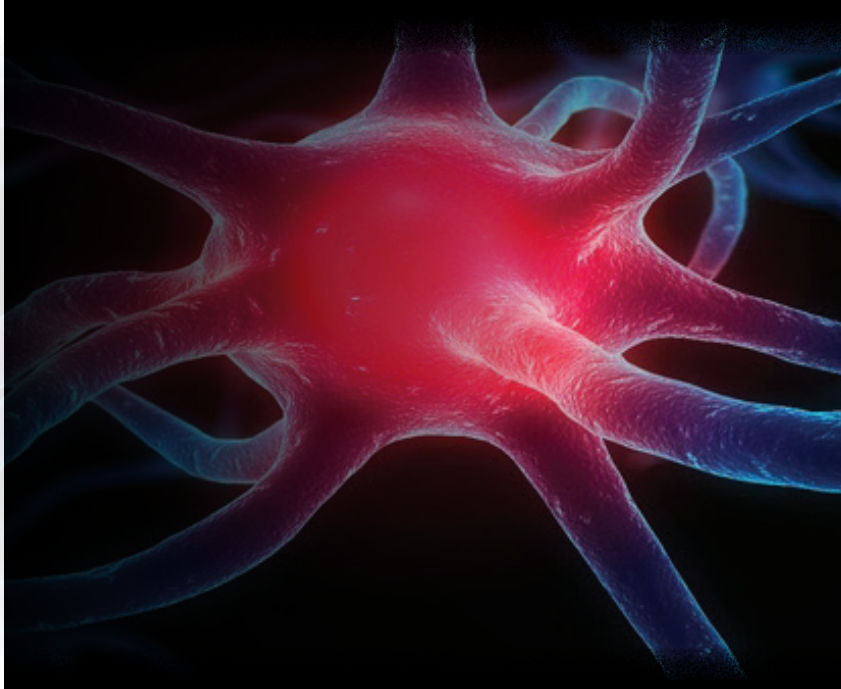
THE FIELDS INSTITUTE

COMPUTATIONAL MODELS FOR NEURODEGENERATION

FEBRUARY 24, 2017: 9AM - 1PM



Afflicted neurons in most neurodegenerative diseases display complicated and dissimilar pathological features before the catastrophic incidence of vast neuronal loss. The complex nature of neuronal pathophysiology inevitably implicates system wide alterations in fundamental cellular mechanisms. There is a clear need for widely-available, inexpensive and reliable methods to screen for these diseases in their early stages. This workshop will survey the state-of-the-art in modeling, mathematical analysis, and computational practice in the field of neurodegenerative diseases, while exploring new application domains.

SPEAKERS

Michael Harney, Intermountain Healthcare
Ilias Kotsireas, Wilfrid Laurier University
Stanley Liang, York University
Siv Sivaloganathan, University of Waterloo
Ioannis Tarnanas, ETH University Zurich
Panayiotis Vlamos, Ionian University

For more information, please visit:
www.fields.utoronto.ca/activities/16-17/CompModels

Computer Algebra Research Group of Wilfrid Laurier University

BiHE Lab

NSERC CRSNG

Ontario

THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES
222 College Street, Second Floor, Toronto, Ontario, M5T 3J1 • www.fields.utoronto.ca • 416-348-9710