DEPARTMENT OF HUMAN ANATOMY AND CELL SCIENCE

METABOLIC RESTING STATE NETWORKS AS FUNCTIONAL BIOMARKERS OF PARKINSON'S DISEASE

THURSDAY, MARCH 15, 2018 | 12:00–1:00 PM

Frederic Gaspard Theatre · Basic Medical Sciences Building · Bannatyne Campus

Speaker: **Dr. David Eidelberg**

Dr. David Eidelberg is a neurologist and neuroscientist, widely regarded for his pioneering work on network dysfunction in brain disease. He is director of the Center for Neurosciences at The Feinstein Institute for Medical Research in Manhasset, New York.

In Parkinson's disease research, recent advances have come from techniques of image analysis that can quantify the activity of large-scale functional brain networks. These techniques are revealing the widespread circuit abnormalities that underlie Parkinson's and other neurodegenerative disorders.

Dr. Eidelberg's lecture will present Parkinson's disease network applications that improve diagnostic accuracy; provide prognostic information, including near-term phenoconversion in individuals with preclinical Parkinson's; gauge rates of disease progression at the systems level; and quantitatively evaluate treatment responses and placebo effects.

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