HSCI RESEARCH SEMINAR SERIES
SCHOOL OF HEALTH SCIENCES

DOPAMINE HOMEOSTASIS AS A MECHANISTIC TARGET RELEVANT TO NEURODEGENERATIVE DISEASE

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Abstract:

Exposure to environmental agents is a risk factor for neurodegenerative disease, such as Parkinson’s Disease (PD); however, the pathogenic mechanism(s) linking exposure to biochemical events relevant to disease are unknown. Identification of these mechanistic factors is essential to identifying biomarkers for earlier PD diagnosis and potential or novel targets for therapeutic intervention. Our work focuses on the role of altered neurotransmitter homeostasis (i.e., metabolism and trafficking) via environmental factors yielding aberrant levels of toxic intermediates and reactive oxygen species with subsequent damage relevant to disease, such as modification and aggregation of key proteins.

Host: Dr. Jason Cannon