Parkinson’s Disease: From basic mechanisms to treatment and prevention

The Natural History Museum, Tel Aviv University
November 17, 2022

Register to attend and submit abstract >>

8:00-8:50  Registration
light refreshments + poster hanging

8:50-9:00  Greetings: Prof. Karen Avraham
Dean, Faculty of Medicine

9:00-9:45  Keynote lecture
Clive Svendsen, Cedars-Sinai Medical Center, USA
Using stem cells to model and treat Parkinson’s disease

9:45-10:30  Session 1
Neurobiology of Parkinson’s disease
Shani Stern (Haifa)
Shared and distinct phenotypes of Parkinson’s disease patient-derived dopaminergic neurons
Daniel Gitler (BGU)
Attenuation of synaptic function by alpha-synuclein depends on the synapsins: mapping of their binding sites
Joshua Goldberg (HUJI)
Alpha-Synuclein-driven pathophysiologies underlying non-motor parkinsonian symptoms

10:30-11:00  Coffee Break and Posters

11:00-11:45  Keynote lecture
Maria Grazia Spillantini, University of Cambridge, UK
Alpha-synuclein synaptic dysfunction in Parkinson’s disease: a target for therapy

11:45-12:30  Session 2
Cellular mechanisms in Parkinson’s disease
Moussa B.H. Youdim (Technion)
Restoration of dopamine neurons in animal models of Parkinson’s Disease via activation of HIF, cell cycle and mitochondrial biogenesis
Simone Engelender (Technion)
Role of SIAH proteins in PINK1 homeostasis: Implications for mitochondrial dysfunction in Parkinson’s disease
Eran Perlson (TAU)
The role of local protein synthesis in axon degeneration

12:30-14:00  Lunch break + posters

14:00-14:45  Keynote lecture
Pamela McLean, Mayo Clinic, USA
Therapeutic strategies targeting alpha-synuclein for Parkinson’s disease and Lewy body dementia

14:45-15:30  Session 3
Alpha synuclein physiology in health and disease
Ronit Sharon (HUJI)
Alpha-synuclein: A physiological function in vesicle traffic and the implications to the pathophysiology of Parkinson’s disease.
Philipp Selenko (Weizmann Institute)
What is the biological function of alpha-Synuclein
Avi Ashkenazi (TAU)
Influence of membrane phospholipids on α-synuclein pathological behavior

15:30-16:00  Coffee break

16:00-16:30  Session 4
New approaches for PD diagnosis and tracking
Aviv Mezer (HUJI)
Mapping microstructural gradients of the human striatum in Parkinson’s disease.
Uri Ashery (TAU)
A new platform for diagnosis of alpha-synuclein aggregates using super resolution microscopy

16:30-17:15  Keynote lecture
Claudio Soto - University of Texas, USA
Detection and Biology of alpha-synuclein conformational strains

17:15  Concluding remarks
Prof. Nir Giladi, Chairman Neurological Institute and Director of the Aufzien Family Center for the Prevention and Treatment of Parkinson’s Disease

For questions, contact Alana Hassan
alanarhassan@tauex.tau.ac.il

The Natural History Museum, Tel Aviv University