

Aufzien Center for Prevention and Treatment of Parkinson's Disease Tel Aviv University



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
Chair: Avi Ashkenazi (TAU)
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
Chair: Ilana Schlesinger (Rambam)
Shani Stern (Haifa)

Shared and distinct phenotypes of Parkinson's disease patientderived 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 nonmotor parkinsonian symptoms

10:30-11:00 Coffee Break and Posters

11:00 -11:45 **Keynote lecture** Chair: Claude Brodski

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** Chair: Dani Offen (TAU) 12:30-14:00 Lunch break + posters

14:00-14:45 **Keynote lecture** Chair: Sharon Hassin-Baer (Sheba)

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 Chair: Nirit Lev (Meir)

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 a-synuclein pathological behavior

15:30-16:00 Coffee break

16:00-16:30 Session 4 New approaches for PD diagnosis and tracking Chair: Anat Mirelman (Sourasky)

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 Chair: Roy Alcalay (Sourasky) Claudio Soto - University of Texas, USA Detection and Biology of alpha-synuclein conformational strains

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

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



