THE 26th TEL AVIV UNIVERSITY AD CONFERENCE

Sponsored by
The National Institute for Psychobiology in Israel,
Rabin Institute of Neurobiology,
Sagol School of Neuroscience,
Tel Aviv University

June 27-28, 2018

Program

Lectures will be held at the auditorium of the Porter School of Environmental Studies
on the Tel Aviv University campus

WEDNESDAY, JUNE 27, 2018

08:00 – 08:25 Registration

Chair: Amos Korczyn, Danny Michaelson
08:25 – 08:40 Greetings: Geri Roth, Andrey Broisman

Session 1: INFLAMMATION
Chair: Danny Segal
08:40 – 09:20 Rada Koldamova
Role of apoE lipoproteins in microglia response to Abeta
09:20 – 09:40 Sheelu Monga
Anti-microglial activation effects of TSPO ligands
09:40 – 10:00 Sigal Fleisher-Berkovich
Candesartan ameliorates brain inflammation associated with AD
10:00 – 10:20 Alon Monsonego
Adaptive immunity in aging and AD
10:20 – 10:30 Shoshik Amram
Astrocyte senescence induced by TGFβ1 results in neurotoxicity

10:30 – 10:50 Coffee break

**Session 2: ApoE**

Chair: Danny Michaelson, Rachel Ben-Hayun

10:50 – 11:30 Iliya Lefterov
Multi-omics profiling identifies APOE-allele associated lipid and gene expression patterns in AD

11:30 – 11:50 Anan Moran
Extra-hippocampal learning and memory are altered in young apoE4 expressing mice and rats

11:50 – 12:10 Eran Schmukler
ApoE4 alters mitochondrial dynamics and activity in astrocytes

12:10 – 12:20 Shira Simonovitch
Impaired mitophagy and autophagy in apoE4 mice

12:20 – 12:30 Hila Ninio Ben-Moshe
ApoE4 exacerbates hippocampal pathology following acute brain penetration injury

12:30 – 12:40 Shiran Salomon-Zimri
Counteracting apoE4 driven stress related pathways

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**Special lecture:**

12:40 – 13:00 Avigdor Sharon
The Porter school building - what makes it unique?

13:00 – 13:50 Lunch

**Session 3: CLINICAL ASPECTS**

Chair: Ronit Pinkas-Kramarski, Menachem Segal

13:50 – 14:30 Gad Marshall
Novel performance-based instrumental activities of daily living tests for early-stage AD

14:30 – 14:50 Amos Korczyn
AD: Past, present and future

14:50 – 15:10 Esther Levy
How to help adult children to be better prepared to meet the needs of old parents with AD?

15:10 – 15:30 Yakir Kaufman
Is retirement a major risk factor for AD?
15:30 – 15:50  **Joseph Levine**  
AD and schizophrenia

15:50 – 16:10  **Coffee break**

16:10 – 16:45  **Session 4: BLITZ PRESENTATIONS**  
Award sponsored by the Ministry of Science and Technology

**Chair: Danny Frenkel**

**Shira Solomon**  
The effect of *apoE4* on the NRF1/2 response in astrocytes

**Adva Hadar**  
Renin-Angiotensin, RGS2 and SRIT1 in healthy aging and AD

**Yanina Ivashko-Pachima**  
Tau, a double-edged sword is required for neuroprotection

**Gennadiy Fonar**  
Poly-arginine peptide ameliorates cognitive decline in a transgenic mouse model of AD via induction of neuroprotective cellular pathways and facilitation of the hippocampal synaptic plasticity

**Baruch Polis**  
Arginase inhibition improves spatial memory acquisition in AD model mice via escalation of neuroplasticity-associated gene expression

**Rotem Paz**  
Characterizing cognitive and neural alterations among healthy participants with a genetic predisposition for AD

**Sharma Vijendra**  
Selective reduction of eIF2α phosphorylation in excitatory neurons enhances learning and memory
**THURSDAY, JUNE 28, 2018**

**Session 5: DIABETES and DEMENTIA**

Chair: Judith Aharon, Eli Wertman

08:30 – 08:50  Michal Beeri  
Is there a link between diabetes and AD?

08:50 – 09:10  Ramit Ravona  
Factors relevant for depression in the context of diabetes in the elderly

09:10 – 09:30  Varda Shoshan-Barmatz  
The link between AD and diabetes: Overexpression of VDAC1

09:30 – 09:50  Eugene Merzon  
ADHD symptoms and cognitive decline in the late-life cohort of diabetic patients

09:50 – 10:00  Amit Koren  
The role of diabetic mechanisms in apoE4 pathology

10:00 – 10:20  Coffee break

**Session 6: MOLECULAR MECHANISM**

Chair: Gabi Amitai, Amir Glick

10:20 – 11:00  Jens Pahnke  
Blood-Brain Barrier ABC transporters as treatment targets for proteopathies of the brain

11:00 – 11:20  Michal Prendecki  
What is the significance of TOMM40 genetic variants in Alzheimer's disease?

11:20 – 11:40  Inna Slutsky  
What are the key drivers of AD?

11:40 – 12:00  Illana Gozes  
ADNP and its relation to tau and AD progression

12:00 – 12:20  Etay Aloni  
Synaptopodin is involved in symptoms of AD in 3xTg mice

12:20 – 12:30  Ran Mordkowicz  
Early life chronic stress accelerates cognitive impairment in 5xFAD transgenic mice

12:30 – 13:20  Lunch
Session 7:  
**DIAGNOSIS and THERAPY**

Chair: Therese Treves, Avraham Fisher

13:20 – 13:40  **Michal Schwartz**  
Immune checkpoint blockade for fighting AD

13:40 – 14:00  **Nathan Intrator**  
A novel brain monitor: frontal lobe activity biomarkers can indicate neurodegenerative diseases

14:00 – 14:40  **Ashley Bush**  
Iron as a therapeutic target in AD

14:40 – 15:00  **Ruth Gabizon**  
Mechanism of action of nano-PSO as a reagent for the delay of neurodegenerative diseases

15:00 – 15:20  **Coffee break**

15:20 – 15:30  **David Gurwitz**  
Blood RGS2 as early AD biomarker

15:30 – 15:50  **Botond Penke**  
Novel dihydropyridine compounds induce heat shock response and show neuroprotective effect in the APP/PS1 tg mouse model of AD

15:50 – 16:10  **V. Guru KrishnaKumar**  
High Throughput Screening of small molecule inhibitors for tau aggregation

16:10 – 16:30  **Keren Nitzan**  
Mitochondrial-transfer therapy in an Alzheimer's disease animal model

16:30 – 16:50  **Amos Korczyn, Danny Michaelson, Danny Frenkel**  
Concluding remarks

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