



**TEL AVIV** אוניברסיטת  
**UNIVERSITY** תל אביב

# THE 26<sup>th</sup> 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 eIF2 $\alpha$  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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בית הספר סגול  
למדעי המוח  
אוניברסיטת תל אביב



המכון הלאומי לפסיכוביולוגיה בישראל  
The National Institute for Psychobiology in Israel

