



**THE 24<sup>th</sup> TEL-AVIV UNIVERSITY AD CONFERENCE**

In collaboration with  
**UNIVERSITY OF CALIFORNIA, IRVINE**

Sponsored by the Sagol School of Neuroscience, the Adams Super Center for Brain Studies,  
and the Rabin Center for Neurobiology, Tel-Aviv University

**June 22-23, 2016**

**Program**

**Lectures will be held at the Kes Hamishpat Hall, Faculty of Law, Tel-Aviv University Campus**

**WEDNESDAY, JUNE 22, 2016**

08:00 – 08:30 Registration

**Chair: Amos Korczyn, Danny Michaelson**

08:30 - 08:40 **Greetings: Geri Roth, Uri Ashery, Daniel A. Chamovitz, Frank LaFerla**

**Session 1: SUCCESS AND IMPEDIMENTS TO TRANSLATION**

**Session in honor of Barbara Sieratzki**

**Chair: Joab Chapman, Amitay Oberman**

08:40 – 09:20 **Frank LaFerla**

Translating discoveries from the bench to bedside

09:20 – 10:00 **Matt Blurton-Jones**

iPS stem cells for AD

10:00 – 10:20 **Iliana Barrera**

Translation initiation regulation: from basic neuroscience to cognitive enhancers and neurodegenerative diseases

10:20 – 10:40 **Abraham Fisher**

Co-activation of M1 muscarinic/SIGMA-1 receptor heterodimers:

A unique target for a comprehensive therapy of AD

10:40 – 11:10 **Coffee break**



**Session 2: DISEASE MECHANISMS****Chair: Yerachmiel Barber, Michael Davidson**11:10 – 11:30 **Dov Lichtenberg**

Is oxidative stress involved in AD pathogenesis?

11:30 – 11:50 **Anat Boehm-Cagan**

The role of impaired lipidation in mediating the pathological effects of apoE4

11:50 – 12:10 **Shiran Solomon-Zimri**

Reversal of the apoE4 driven down regulation of the VEGF system counteracts the brain pathological effects of apoE4 and the associated cognitive impairments

12:10 – 13:00 **Lunch****Session 3: STUDENTS PRESENTATIONS**13:00 – 14:00 **Chair: Einor Ben Assayag, Danny Frenkel****Alon Rabinovich**

Microglia carrying human PS1 mutation shows increase in neurotoxic profile

**Merav Shmueli**

Alterations in protein glycosylation as potential biomarkers for AD

**Dorin Sade**

Quantification of amyloid intracellular propagation during neurodegeneration

**Neta Rosenzweig**

Therapeutic potential of immune checkpoint blockade in AD mouse models

**Shoshik Amram**The dual role of TGF- $\beta$  in astrocyte activity**Keren Asraf**Differential effects of intranasally administered kinin B<sub>1</sub> and B<sub>2</sub> receptor antagonists in AD mice**Tal Shnitzer**

EEG-based geometric modeling and analysis of cognitive deterioration in AD

**Inna Shvarts-Serebro**

MicroRNA cocktail to alleviate AD and other neurodegenerative diseases:

The effects of multitarget regulation based on environmental enrichment model

**Shir Shlomi**Chronic stress accelerates cognitive impairment and  $\beta$ -amyloid accumulation in 5xFAD tg mice

**Session 4: CLINICAL****Chair: Amir Glik, Moshe Kotler**14:00 – 14:40 **Richard Wurtman**

Enhancing synaptogenesis to treat early AD

14:40 – 15:00 **Michal Beeri**

The role of the hapotoglobin genotype on cognition and brain ischemic damage in elderly with T2DM

15:00 – 15:20 **Coffee break**15:20 – 15:40 **Martin Rabey**

Benefit of rTMS combined with cognitive training: A naturalistic follow up

15:40 – 16:00 **Avi Weinberger**

Helping AD sufferers in early stages by neurofeedback

16:00 – 16:20 **Yoni Pertzov**

Presymptomatic AD patients exhibit deficits in object-location memory across a few seconds

16:20 – 17:00 **Carl Cotman**

Lifestyles, especially physical activity, counteract brain aging: Mechanistic underpinnings

**THURSDAY, JUNE 23, 2016****Session 5: INFLAMMATION****Chair: Sigal Fleisher-Berkovich, Moussa Youdim****Session in honor of Mrs. Joni Berry Eichenbaum**08:30 – 09:10 **Andrea Tenner**

Inflammation and AD

09:10– 09:50 **Kim Green**


Role of microglia in AD

09:50 – 10:10 **Tal Iram**

The role of astrocytes as scavenging cells in AD


10:10 – 10:30 **Nofar Torika-Nadiv**

Telmisartan modulates brain inflammation associated with AD

- 10:30 – 10:50 **Alon Monsonego**  
Dysregulated adaptive immunity with aging – a possible link to enhanced brain inflammation in AD
- 10:50 – 11:10 **Uri Ashery**  
Hyperbaric oxygen ameliorates pathology in 3xTg-AD mice by modulating inflammation
- 11:10 – 11:30 **Michal Schwarz**  
Fighting neuroinflammation in AD by blocking inhibitory immune checkpoints
- 11:30 – 11:50 **Coffee break** 

### **Session 6:      **DIAGNOSTICS****

**Chair: Ramit Ravona, Mark Weiser**

- 11:50 – 12:10 **Judith Aharon-Peretz**  
New and future biomarkers for the evaluation of the dementias
- 12:10 – 12:30 **Amos Korczyn**  
Is MCI a valid concept?
- 12:30 – 12:50 **Boaz Levy**  
Alzheimer's anonymous: Developing a cognitive marker for the primary care setting
- 12:50 – 13:10 **Illana Gozes**  
News about novel diagnostics: Activity-dependent neuroprotective protein (ADNP) and related proteins
- 13:10 – 14:00 **Lunch** 

### **Session 7:      **EXPERIMENTAL THERAPY****

**Chair: Ettie Grauer, Yitshal Berner**

- 14:00 – 14:40 **Eitan Okun**  
A DNA vaccination approach for AD-related symptoms in the Ts65Dn Down syndrome mouse model
- 14:40 – 15:00 **Moran Frenkel**  
Selective inhibition of aggregation of a tau-derived peptide using glycosylated analogs of the amyloid scaffold
- 15:00 – 15:20 **Konstantin Bloch**  
Cell-based insulin delivery to the brain for treatment of cognitive dysfunction
- 15:20 – 15:40 **Beka Salomon**  
Chronic administration of AMD 3100, a multifaceted therapeutic strategy in AD

- 15:40 – 16:20 **David Cribbs**  
Immunotherapeutic approaches to neurodegenerative disease
- 16:20 – 16:40 **Jacqueline London**  
Down Syndrome and AD: how several chromosome 21 genes can help to find new directions for early intervention
- 16:40 **Closure and awards**

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