



Memory and
Aging Center

THE 25th TEL-AVIV UNIVERSITY AD CONFERENCE
In collaboration with
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

Sponsored by the Rabin Center for Neurobiology and the Sagol School of Neuroscience
Tel-Aviv University

June 21-23, 2017

Program

Lectures will be held at the Dolphi Lecture Hall, Sakler Faculty of Medicine

WEDNESDAY, JUNE 21, 2017

08:00 – 08:30 Registration

Chair: Amos Korczyn, Danny Michaelson

08:30 - 08:50 **Greetings: Geri Roth, Uri Ashery, Michael Geschwind**

08:50- 09:00 **Danny Michaelson**

In memory of Alan Roses and Bob Terry

Session 1: SUCCESS AND IMPEDIMENTS TO TRANSLATION

Chair: Danny Segal, Gaby Amitai

09:00- 09:40 **Lea Grinberg**

The brainstem as the earliest structure vulnerable to AD: From structure to function and translation to clinical use

09:40- 10:00 **Shahar Arzy**

Mental orientation as a core disorder in AD: the Clara App

10:00 – 10:20 **Amos Korczyn**

Is AD a misleading concept?

10:20 – 10:40 **Judith Aharon**

Familial presenile dementia in Israel

10:40 – 11:00 **Coffee break** 

Session 2: INFLAMMATION

Chair: Carmel Armon, Daphne Atlas

11:00 – 11:40 **Jan Grimm**
The Neurimmune vision.


11:40 – 12:00 **Ari Barzilai**
Astrocytes but not neurons regulate the dynamics of neural-glia networks

12:00 – 12:20 **Pablo Blinder**
In vivo imaging of the cross talk between the neuronal and vascular systems

12:20- 12:40 **Alon Rabinovich**
PS1 mediates microglia inflammatory profile

12:40- 13:00 **Alon Monosengo**
Neuroinflammatory aspects of aging and AD

13:00- 13:20 **Shoshik Amram**
TGFb1 modulates senescence in 5FAD mice

13:20 – 14:00 **Lunch** 

Session 3: TAU

Chair: Moshe Kotler, Menahem Segal

14:00 – 14:30 **Manfred Windisch**
Animal model of tauopathies

14:30 – 15:10 **Gil Rabinovici**
Tau imaging

15:10 – 15:30 **Hanna Rosenmann**
Tau protein in AD: pathogenesis and treatment

15:30 – 15:50 **Coffee break** 

Session 4: APOE and more

Chair: Iftah Biran, Shelley Sternberg

15:50 – 16:00 **Roni Bar**
Effects of synuclein deficiency and sex on the phenotypic expression of the apoE4 genotype

- 16:00 – 16:10 **Shiran Salomon–Zimri**
The signalling mechanisms which mediate the pathological effects of apoE4
- 16:10 – 16:20 **Eran Schmukler**
The effects of apoE4 on autophagy mitochondrial dynamics
- 16:20 – 16:30 **Shira Simonovitch**
In vitro studies of the mechanisms underlying the pathological effects of apoE4
- 16:30 – 16:40 **Roy Rabinowitz**
DNA editing of the apoE4 gene
- 16:40- 17:00 **Udi Gazit**
Metabolite amyloids: A new paradigm for neurodegeneration
- 17:00- 17:55 **Blitz presentations**
- Tomer Ilouz**
Unbiased analysis of spatial strategies in behavioral testing
- Yelena Losev-Solovey**
The role of the S400 residue of tau in the severity of AD-related phenotypes
- Torika Nofar**
Intranasal treatment with telmisartan as a therapeutic strategy in AD mice
- Elhaik Goldman-Shirin**
High fat diet protects the blood-brain barrier in an AD mouse model
- Hila Ninio Ben-Moshe**
Effect of APOE4 on acute brain injury in mice
- Dorin Sade**
Metabolite amyloid-like structures and the connection to neurodegenerative diseases
- Shira Solomon**
The effect of APOE on mitochondrial dynamics
- Yuval Gabriel**
Mobilization of hematopoietic stem cells in an acute AD model
- Keren Nitzan**
Mitochondrial therapy in an AD animal model
- Yanina Ivashko-pachima**
What does tau knock down do: Latest results
- Neta Gazit**
IGF-1 receptor: from synaptic transmission to AD

THURSDAY, JUNE 22, 2017

Lectures will be held at the 03 Sherman Lecture hall, Life Science Building

Session 5: MECHANISMS

Chair: Noa Bregman, John Lemberger

08:30- 09:10 **Zachary Miller**

Novel risk factors in neurodegenerative diseases and autoimmune diseases: Neurodevelopment and autoimmunity

09:10- 09:30 **Yitshal Berner**

Congestive heart failure and cardiac dementia

09:30- 09:50 **Galit Weinstein**

Non-alcoholic fatty liver, fibrosis markers and brain aging: findings from Framingham

09:50 – 10:10 **Tziona Ben-Gedalya**

PS1 functional conformation requires assistance of cyclophilin B folding chaperones

10:10 – 10:30 **Coffee break**



Session 6: *DIAGNOSTICS AND THERAPY*

Chair: Elissa Ash, Rachel Ben Hayun

10:30- 10:50 **Tamara Shiner**

A simple verbal fluency test can differentiate GBA genotype in dementia with Lewy bodies

10:50 – 11:10 **Gil Suzin**

Difference in semantic memory encoding in young, healthy old and MCI patients

11:10- 11:30 **Michal Beeri**

Initial cognitive, neuroimaging and clinical characterization of AD offspring

11:30 – 11:50 **Yakir Kaufman**

Are psychosocial risk factors the main target for dementia prevention?

11:50 – 12:10 **Yvonne Freund-Levi**

Effects of risperidone and galantamine treatment on AD CSF biomarkers

12:10 – 12:30 **Eyal Bar Or**

Effects of NeuroAD, combined transcranial magnetic stimulation (TMS) and cognitive training, on the cognitive function of mild to moderate AD patients

12:30 – 12:50 **Shany Ur-Tal**

Neuroanatomy of recognizing realistic emotions in patients with neurodegenerative diseases

12:50-13:30

Lunch



Session 7: AUTO-IMMUNE DEMENTIA and EXPERIMENTAL THERAPY**Chair: Ramit Ravona, Therese Treves**

- 13:30 – 14:10 **Michael Geschwind**
Immune-mediated dementia
- 14:10 – 14:30 **Abraham Fisher**
Targeting tau and amyloid pathologies via activation of M1 muscarinic-sigma 1 receptors as a possible combatant of AD
- 14:30 – 14:50 **Sigal Fleisher-Berkovich**
Intranasal angiotensin-related drugs ameliorate brain pathology in 5 FAD mice models
- 14:50 – 15:10 **Beka Salomon**
Inhibition of the endocytotic pathway and BACE down regulates tau and apoptotic genes
- 15:10- 15:30 **Hagit Eldar-Finkelman**
New type of GSK-3 inhibitors for treating AD

15:30- 16:00

Coffee break**Session 8: *EXPERIMENTAL THERAPY (Cont)*****Chair: Ed Stern, Eli Mizrahi**

- 16:00- 16:20 **Danny Offen**
Mesenchymal stem cell exosomes as a novel AD therapy
- 16:20 – 16:40 **Gal Bitan**
Broad-spectrum molecular-tweezer nanochaperones are promising drug candidates for AD and other proteinopathies
- 16:40 – 17:00 **Uri Ashery**
Multifaceted mitigating effects of hyperbaric oxygen therapy in AD mouse models
- 17:00- 17:20 **Shai Rahimipour**
Targeting the toxic amyloidogenic oligomers by self-assembled cyclic D,L-a-peptides
- 17:20- 17:40 **Illana Gozes**
A novel avenue for protection against tauopathy: ADNP/NAP dramatically increases microtubule end-binding protein-tau interaction

FRIDAY, JUNE 23, 2017

Meeting will be held at Ichilov hospital
12th floor, Sourasky building

Chair: Noa Bregman and Judith Aharon

09:00- 10:00 **Michael Geschwind**

Rapid-onset dementia

10:00- 13:00 Presentation of unusual cases

Supported by: Enzymotec, The National Institute for Psychobiology in Israel, Neuronix, Teva

