



THE 20th TEL-AVIV UNIVERSITY ALZHEIMER'S DISEASE CONFERENCE
Sponsored by the Adams Super Center for Brain Studies and
The Rabin Center for Neurobiology.
Tel-Aviv University

June 27-28, 2012

Program

WEDNESDAY, JUNE 27, 2012

Lectures will be held at the Tel-Aviv University Campus, Faculty of Medicine, Lola Auditorium

08:00 – 08:30 Registration

Chair: Amos Korczyn, Danny Michaelson

08:30 - 08:40 Greetings: Illana Gozes, Geri Roth

Session 1 The holy trinity of neurodegeneration: Energy, Transport, Renewal

Session in honor of Mrs. Barbara Sieratzki

Chair: Mike Fainzilber, Judith Aharon

08:40 – 09:10 **Francisca Bronfman (Chile)**
 Bad news from the axon: Role of p75 neurotrophin receptor in retrograde killing

09:10 – 09:40 **Zeevi Elazar**
 Overview of autophagy and its role in garbage disposal

09:40 – 10:10 **Varda Shoshan-Barmatz**
 Mitochondria, metabolism and apoptosis

10:10 – 10:40 **Eric A. Schon (USA)**
 A different way of thinking about Alzheimer disease

10:40 – 11:10 **Coffee break**



Session 2 Cognitive and Functional aspects of AD

Chair: Simona Naor, Joab Chapman

11:10 – 11:25 **Therese Treves**
 A comparison of MMSE vs MoCA in a sample of patients with cognitive decline

11:25 – 11:40 **Ory Levy**
 Early life structural and functional brain changes in human ApoE4 carriers as revealed by MRI

11:40 - 11:55 **Avner Thaler**
 Lower cognitive performance in healthy G2019S *LRRK2* mutation carriers

11:55 – 12:10 **Eli Mizrahi**
 Atrial fibrillation predicts cognitive impairment in patients with ischemic stroke

- 12:10 – 12:25 **Anne-Marie Ergis (France)**
Prospective memory deficits in AD and in MCI
- 12:25 - 12:40 **Rivka Inzelberg**
Conversion from MCI to AD in an Arab elderly population
- 12:40 - 12:55 **Ely Simon**
Beyond the cut-off: Injecting computerized cognitive data into our intuitive clinical thinking
- 12:55 - 13:10 **Michal (Ballas) Gruberger**
I Think Therefore I Am: In search of the neural basis of spontaneous thought

13:10 – 14:10 **Lunch**



Session 3 Glia and neurodegeneration

Session in honor of the late Mrs. Miryam Lebach

Chair: Danny Offen, Eli Wertman

- 14:10– 14:30 **Reuven Stein**
CD38 deficiency protects against AD manifestations in AD mouse model
- 14:30 – 14:50 **Dan Frenkel**
Expression of mutated TAU in astrocyte accelerates disease progression in AD animal model
- 14:50 - 15:10 **Ari Barzilai**
DNA damage, neuronal and glial cell death and neurodegeneration
- 15:10 - 15:30 **Sarit Ben-Shmuel**
The molecular mechanisms involved in the attenuation of microglial inflammation by bradykinin
- 15:30 - 16:10 **Shosh Bar-Nun**
Yeast as a model system for aging and Huntington's disease

16:10– 16:30 **Coffee break**



Session 4 Clinical dementia and biomarkers

Chair: Tali Cukierman, Yaniv Assaf

- 16:30 – 16:50 **Deborah Gustafson (Sweden and USA)**
The next generation of epidemiological investigation of AD and late-onset dementias
- 16:50– 17:10 **Gil Rabinovici (USA)**
Amyloid Imaging: Limited Research Tool or Diagnostic Paradigm Shift?
- 17:10 – 17:30 **Edson Amaro (Brazil)**
Neuroimaging quantification techniques in dementia: an application to GWAS studies
- 17:30 - 17:50 **Ruth Gabizon**
Genetic prion disease: Lessons from humans and from transgenic mice
- 17:50 - 18:10 **Michal Schnaider Beerli (Israel and USA)**
The Israel Diabetes and Cognitive Decline (IDCD) study: baseline characteristics and first results

THURSDAY, JUNE 28, 2012

Lectures will be held at the Tel-Aviv University Campus, Faculty of Medicine, Lola Auditorium

Session 5 Evolving therapies of dementia

Session in honor of the late Mr. Joseph and Mrs. Inez Eichenbaum

Chair: Zeev Meiner, Izhak Michaelievski

- 08:30 – 08:50 **Gal Bitan (USA)**
Development of small-molecule modulators of protein aggregation and toxicity
- 08:50 – 09:10 **Abraham Fisher**
Concomitant activation of G-protein coupled receptors and sigma-1 receptor:
a novel pharmacological concept in treatment of AD
- 09:10 – 09:30 **Illana Gozes**
Microtubules as an emerging therapeutic target: NAP (davunetide).
- 09:30 – 09:50 **Micha E. Spira**
Rescue of tau-induced hallmark AD cellular pathology by paclitaxel
- 09:50 – 10:10 **Hagit Eldar-Finkelman**
Benefits in therapy based on substrate competitive inhibitors of GSK-3
- 10:10 – 10:30 **Beka Solomon**
Beneficial effect of anti APP antibodies on AD like pathology
- 10:30 – 10:45 **Ori Liraz**
Anti apoE4 immunotherapy
- 10:45 – 11:00 **Anat Boehm**
Isoform specific effects of Bexarotene on the synthesis of apoE4 and apoE3

11:00 – 11:20 **Coffee break**



Session 6 Experimental and new therapies

Session in honor of the late Mrs Leah Superstein

Chair: Ramit Ravona, Noa Bregman

- 11:20 – 11:40 **Silvia Mandel**
Targeting hippocampal damage by the novel multi-target rasagiline derivative,
HLA-20.
- 11:40 – 12:00 **Moussa Youdim**
Novel anti AD drugs with neuroprotective and restorative properties
- 12:00 – 12:20 **Orly Weinreb**
Neuroprotective drugs for aged-dependent pathologies associated with AD

- 12:20 – 12:40 **Elissa Ash**
Transcranial magnetic stimulation (TMS) of deep brain regions in AD
- 12:40 – 13:00 **Martin Rabey**
Beneficial effect of rTMS combined with cognitive training for AD patients
- 13:00 – 13:20 **Marta Rosin**
Ladostigil, a novel multifunctional drug for the treatment of AD and MCI

13:20 – 14:00 **Lunch**



Session 7 Stroke, inflammation and dementia

Chair : Hanna Rosenmann, Ettie Grauer

- 14:00 – 14:20 **Nicola Maggio**
PAR-1 regulation of synaptic plasticity: novel insights into the pathophysiology of stroke and traumatic brain injury-related dementias
- 14:20 – 14:40 **Michal Arbel-Ornath**
Real time in-vivo imaging of the perivascular drainage pathway in the brain of AD and stroke rodent models
- 14:40 – 15:10 **Einor Ben Assayag**
Cognitive performance after stroke: relation to inflammatory biomarkers and hippocampal volume
- 15:10-15:30 **Rona Baron**
Microglial morphology is altered in aging and in a mouse model of AD
- 15:30-15:50 **Shiri Stempler**
Identifying and targeting key alterations in AD with metabolic modeling
- 15:50 – 16:10 **Itzhak Fried**
Deep brain stimulation for cognitive enhancement

16:10 – 16:30 **Coffee break**



16:30 - 17:30 **Round table: Frontiers of therapy**

Chair: Amos Korczyn, Danny Michaelson

Supported by: Eli Lilly, Enzymotec, Ministry for Senior Citizens, Neuronix, Novartis, Unipharm

The 21st Tel-Aviv University Alzheimer's Disease Conference

will be held on July 3-4, 2013