



The Annual Meeting of the ISPP Ma'ale Hachamisha Thursday December 10, 2009

PROGRAM OUTLINE

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| 8:30 - 9:30 | Registration and Refreshments (posters hang up) |
| 9:30-11:10 | Morning Sessions A and B |
| 11:10-11:30 | Coffee Break |
| 11:30-12:45 | Student Presentation Competition |
| 12:45-13:30 | Poster Session |
| 13:30-14:15 | Lunch |
| 14:15-14:30 | Business Meeting |
| 14:30-16:10 | Afternoon Sessions C and D |
| 16:10-16:30 | Coffee Break |
| 16:30-16:45 | Ceremony Awarding the Winners of the
Poster and Student Lecture Competitions |

PROGRAM

9:30-11:10 Morning Sessions A and B

Session A: "Mechanisms of Aging and Alzheimer's Disease" (Hall A)

Chairs: Danny Michaelson (Tel Aviv University) and Haim Cohen (Bar-Ilan University)

- 9:30-9:50 Haim Cohen** (Bar-Ilan University): Would MOSES (mice overexpressing exogenous SIRT6) reach 120? And if so, How?
- 9:50-10:10 Sivan Korenblit** (Bar-Ilan University): Insulin/IGF-1 signaling alters the ER stress response to affect longevity.
- 10:10-10:30 Abraham Fisher** (Israel Institute for Biological Research, IIBR): Small molecules therapeutics and disease modification in Alzheimer's disease.
- 10:30-10:50 Danny Michaelson** (Tel Aviv University): The mechanisms underlying the pathological effects of apoE4 in Alzheimer's disease.
- 10:50-11:10 Hanna Rosenmann** (Hadassah Hebrew University Hospital): Tau mediated Neurodegeneration in Alzheimer's disease: Animal model studies and therapeutic approaches.

Session B: "When Environmental Physiology Meets Molecules: Digging into the Regulation of Physiological Processes " (Hall B)

Chair: Michal Horowitz (Hebrew University) Yoram Epstein (Sheba Medical Center)

- 9:30-9:50 Yehuda Arieli** (Israel Naval Medical Institute, Haifa): Preconditioning to HBO may provide protection against CNS oxygen toxicity in the rat: beating the "devil's triangle".
- 9:50-10:10 Rotem Cohen** (Tel Aviv University): From brain to behavior.
- 10:10-10:30 Noam Meiri** (Volcani Center): Epigenetics: mechanism of environmental influence on gene expression.
- 10:30-10:50 Anna Tatievsky** (Hebrew University): Does acclimation have a (cytoprotective) memory? Is it an epigenetic mechanism?

10:50-11:10 Dani Moran (Heller Institute, Tel Hashomer): Heat intolerance: When physiology and molecules talk.

11:10-11:30 Coffee Break

11:30-12:45 Student Presentation Competition

Chairs: Bernard Attali (Tel Aviv University) and Yoav Paas (Bar-Ilan University)

11:30-11:42 Nir Fluman (Weizmann Institute of Science): A promiscuous conformational switch in the secondary multidrug transporter MdfA.

11:42-11:54 Nurit Keinan (Ben-Gurion University): Apoptotic stimuli trigger VDAC oligomerization as monitored in live cells using bioluminescence resonance energy transfer (BRET2).

11:54-12:06 Tal Laviv (Tel Aviv University): Endogenous GABA regulates GABAB receptor conformation and release probability at individual hippocampal synapses.

12:06-12:18 Shimon Lecht (The Hebrew University of Jerusalem): Differential Temporal Activation of Erk, PI3K/Akt and PLC γ Signaling Pathways Induced by Nerve Growth Factor in Endothelial Cells.

12:18-12:30 Moran Rathaus (Bar-Ilan University): The non-histone targets of the longevity gene SIRT1, a proteomic study.

12:30-12:42 Moran Yadid (Technion): Sarcomere velocity regulates the cross-bridge cycling rate in cardiac muscle: A novel theory for the muscle molecular motor.

12:45-13:30 Poster Session

13:30-14:15 Lunch

14:15-14:30 Business Meeting

14:30-16:10 Afternoon Sessions

14:30-16:10 Afternoon Sessions C and D

Session C: “Sensory Neurons Under Stress: From Injury to Neuropathic Pain” (hall A)

Chairs: Marshall Devor (Hebrew University) and Mike Fainzilber (Weizmann Institute)

- 14:30-14:40** **Mike Fainzilber** (Weizmann Institute): A brief introduction to the session.
- 14:40-15:02** **Izhak Michaelevski** (Weizmann Institute): Retrograde signaling and proteomics of injury response.
- 15:02-15:24** **Oded Behar** (Hebrew University): Correction of axon guidance errors results in neuronal cell loss: a possible predisposition for neuropathies.
- 15:24-15:46** **Noam Zilberberg** (Ben Gurion University): Regulation of K2P2.1, a K⁺ channel involved in pain perception.
- 15:46-16:08** **Marshall Devor** (Hebrew University): How does injury response yield hyperexcitability and neuropathic pain ?

Session D: “Ion Transporters: Mechanistic and Structural Insights” (Hall B)

Chair: Baruch Kanner and Shimon Schuldiner (Hebrew University)

- 14:30-14:50** **Israel Sekler** (Ben Gurion University): Not just ATP, The identification and physiological role of the mitochondrial Na⁺/Ca²⁺ exchanger in cellular signaling.
- 14:50-15:10** **Christopher Grewer** (Binghamton University, USA): to be announced.
- 15:10-15:30** **Baruch Kanner** (Hebrew University): What is chloride doing to the sodium-coupled neurotransmitter transporters?
- 15:30-15:50** **Shimon Schuldiner** (Hebrew University): Ion-coupled transporters: evolution forwards and evolution backwards.
- 15:50-16:10** **Yael Stern-Bach** (Hebrew University): Assembly of AMPA-type glutamate receptors.
- 16:10-16:30** **Coffee Break**
- 16:30-16:45** **Ceremony Awarding the Winners of Poster and Student Lecture Competitions**