

# **Ein Gedi 2018 Program**

## **Sunday, March 11<sup>th</sup>**

08:45      **Bus departure to Ein-Gedi from Edmond J. Safra Campus, main bus stop.**

**Departure at 09:00 SHARP!**

10:45-11:00      **Opening notes**

*Plenary lecture. Chair: Aviv Mezer*

11:00-12:00      **Jennifer A. McNab, Stanford School of Medicine**

Developing Next Generation Neuronavigation Technology

12:00-13:00      **Lunch**

*Session I Chair: Tomer Barak*

13:00-13:10      **Tomer Barak**

Intro to Deep Learning

Advisor: Naftali Tishby

13:10-13:35      **Ravid Shwartz-Ziv**

Opening the black box of deep neural networks

Advisor: Naftali Tishby

13:35-14:00      **Aharon Azulay**

Current Deep Learning Fail to Generalize in a Human-Like Fashion

Advisor: Yair Weiss

14:00-14:25      **David Beniaguev**

Single Biological Neurons as Deep Artificial Neural Networks

Advisors: Mickey London and Idan Segev

14:25-14:30      **Tomer Barak**

Closing remarks

Advisor: Naftali Tishby

14:30-15:00      **Coffee break**

15:00-16:15      **Students Blitz**    *Chair: Inbal Goshen*

16:15-16:30      **Frederick D. Gregory, U.S. Army Research Laboratory**

Research funding opportunities with the US Army Research Development and Engineering Command

16:30-17:00      **Room allocation**

- 18:15-19:00      **Poster set-up**
- 19:00-21:00      **Poster session and Wine & Cheese event (at “The Ficus Square”)**
- 21:00-21:05      **Prize announcements for blitz winners and academic distinction**
- 21:05-22:00      **Live concert - Oy Division**

**Monday, March 12<sup>th</sup>**

- 07:30-08:30      **Breakfast**
- 08:30-13:00      **Excursion – Arugot Stream**
- 13:45-14:30      **Sandwich lunch (at main lecture hall)**
- Plenary Session    Chair: Eli Nelken*
- 14:30-15:30      **Naomi Habib, Broad Institute**
- Deciphering the Cellular Landscape Underlying Neuronal Regeneration and Degeneration
- 15:30-16:00      **Coffee Break**
- Session II    Chair: Udi Zohary*
- 16:00-16:20      **Hadar Levi Aharoni**
- Subjective surprise response as a probe for compressed hidden memory states
- Advisors: Naftali Tishby and Oren Shriki
- 16:20-16:40      **Pnina Rappel**
- Subthalamic oscillatory activity in obsessive-compulsive disorder correlates with clinical state
- Advisor: Hagai Bergman
- 16:40-17:00      **Greta Vilidaite**
- Decoding percepts from EEG and MEG reveals influence of early sensory noise
- Advisor: Daniel Baker
- 17:00-17:30      **Coffee Break**
- Session III    Chair: Mickey London*
- 17:30-17:50      **Amit Vinograd**
- Plasticity in Olfactory Circuits Following Parturition
- Advisor: Adi Mizrahi

- 17:50-18:10     **Frances Xia**  
 Identification of an inhibitory hippocampal-thalamic pathway that is necessary for remote memory retrieval  
 Advisor: Paul Frankland
- 18:10-18:30     **Vitaly Lerner**  
 Light activation of Channelrhodopsin2 (ChR2) diminishes electrical coupling between neurons  
 Advisor: Yosi Yarom and Mickey London
- 18:30-18:50     **Michael Doron**  
 Timed Synaptic Inhibition finely tunes NMDA Spikes  
 Advisor: Idan Segev
- 18:50-20:00     **Dinner**
- 20:00-21:00     **Scientific speed-dating**
- 21:00-23:00     **Beer, snacks, music, mingling & movie**

## **Tuesday, March 13<sup>th</sup>**

- 07:30-09:00     **Breakfast & check-out**  
*Session IV Chair: Robert Goldstein*
- 9:00-9:10       **Alex Binshtok**  
 Intro to Pain Session
- 9:10-9:35       **Omer Barkai**  
 New Spice to the inflammatory soup: Platelet-Derived Growth Factor activates peripheral pain neurons by inhibiting KV7/M-type potassium channels  
 Advisor: Alex Binshtok
- 9:35-10:00      **Robert Goldstein**  
 Pain at its Source: Signal Transduction and Propagation at the Nociceptive Peripheral Terminals  
 Advisor: Alex Binshtok
- 10:00-10:25     **Rachel Zaguri**  
 The first human subject with a loss-of-function mutation in TRPV1: Implication on the in vivo function of TRPV1 in human  
 Advisor: Baruch Minke

10:25-10:30     **Baruch Minke**  
Concluding remarks

10:30-11:00     **Coffee break**

*Session V Chair: Yonatan Loewenstein*

11:00-11:20     **Alexander Kaplan**  
Dissociable Actor-Critic Roles of Ventral Pallidal Neurons in the Basal  
Ganglia  
Advisor: Hagai Bergman

11:20-11:40     **Lior Fox**  
DORA The Explorer: Learning What and How to Explore  
Advisor: Yonatan Loewenstein

11:40-12:00     **Tim Darlington**  
Neural implementation of an adaptable Bayesian prior for sensory-motor  
behavior  
Advisor: Stephen G. Lisberger

12:00-12:30     **Coffee break**

*Plenary Session Chair: Mati Joshua*

12:30-13:30     **Megan Carey, Champalimaud Centre for the Unknown**  
Cerebellar circuit mechanisms for coordinated locomotion in mice

13:30-13:45     **Closing remarks**

13:45-14:30     **Sandwich lunch**

14:30            **Bus departure to Edmond J. Safra Campus**