Ein Gedi 2018 Program

Sunday, March 11th

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
Monday, March 12th

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 13th**

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