## Ein Gedi 2018 Program

### Sunday, March 11th

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>08:45</td>
<td>Bus departure to Ein-Gedi from Edmond J. Safra Campus, main bus stop.</td>
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<td><strong>Departure at 09:00 SHARP!</strong></td>
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<tr>
<td>11:15-11:30</td>
<td><strong>Opening notes</strong></td>
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<td>Plenary lecture.  Chair: Aviv Mezer</td>
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<td>11:30-12:30</td>
<td>Jennifer A. McNab, Stanford School of Medicine</td>
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<td></td>
<td>Developing Next Generation Neuronavigation Technology</td>
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<td>12:15-13:00</td>
<td><strong>Lunch</strong></td>
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<td></td>
<td><strong>Session I  Chair: Tomer Barak</strong></td>
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<td>13:00-13:10</td>
<td>Tomer Barak</td>
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<td></td>
<td>Intro to Deep Learning</td>
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<td>Advisor: Naftali Tishby</td>
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<td>13:10-13:35</td>
<td>Ravid Shwartz-Ziv</td>
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<td>Opening the black box of deep neural networks</td>
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<td>Advisor: Naftali Tishby</td>
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<td>13:35-14:00</td>
<td>Aharon Azulay</td>
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<td>Current Deep Learning Fail to Generalize in a Human-Like Fashion</td>
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<td>Advisor: Yair Weiss</td>
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<td>14:00-14:25</td>
<td>David Beniaguev</td>
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<td>Single Biological Neurons as Deep Artificial Neural Networks</td>
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<td>Advisors: Mickey London and Idan Segev</td>
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<td>14:25-14:30</td>
<td>Tomer Barak</td>
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<td>Closing remarks</td>
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<td>Advisor: Naftali Tishby</td>
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<td>14:30-15:00</td>
<td><strong>Coffee break</strong></td>
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<td>15:00-16:15</td>
<td>Students Blitz  Chair: Inbal Goshen</td>
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<td>16:15-16:25</td>
<td>Frederick D. Gregory, U.S. Army Research Laboratory</td>
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<td>Research funding opportunities with the US Army Research Development</td>
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<td>and Engineering Command</td>
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<td>16:30-17:00</td>
<td><strong>Room allocation</strong></td>
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18:15-19:00 Poster set-up
19:00-21:00 Poster session and Wine & Cheese event (at “The Ficuses Square”)
21:00-21:05 Prize announcements for blitz winners and academic distinction
21:05-22:00 Live concert - Oy Division

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 of the Alzheimer’s Brain
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

19:00-20:00 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

9:00-9:35 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