Brainy Days in Jerusalem: An Interdisciplinary Celebration
June 26-29, 2017
Mishkenot Sha’ananim, Jerusalem

Monday, June 26th

9:30 – Organizing Committee – Opening remarks

Session I – Chair: Baruch Minke
9:40 – Charles Zuker – Columbia University, USA
From Receptors to Behavior
10:30 – Noam Sobel – Weizmann Institute of Science, Israel
Predicting Odor Perception from Odor Structure: Pleasantness as a Reflection of the Physical World

11:10 – Coffee break

11:40 – Liqun Luo – Stanford University, USA
Genetic Dissection of Neural Circuit Assembly and Organization
12:30 – Michal Rivlin-Etzion – Weizmann Institute of Science, Israel
The Computation of Motion Direction in the Retina: Recalculating

13:10 – Lunch break

Session II – Chair: Haim Sompolinsky
14:30 – Jonathan Pillow – Princeton University, USA
Low-Dimensional Dynamic Encoding in Prefrontal Cortex during Decision-Making
15:20 – Eilon Vaadia – The Hebrew University of Jerusalem, Israel
Volitional Control of Neuronal Activity in Brain Machine Interface

16:00 – Coffee break

16:30 – Richard Axel – Columbia University, USA
Representations of the Olfactory World in the Brain: Beyond the Piriform Cortex
Tuesday, June 27th

Session III – Chair: Israel Nelken
9:30 – **Bert Sakmann** – Max Planck Institute for Neurobiology, Germany

*From Single Cells & Single Columns to Cortical Networks - Coincidence Detection and Synaptic Transmission in Brain Slices and Brains*

10:20 – **Jackie Schiller** – Technion – Israel Institute of Technology, Israel

*Motion Related Activity in the Different Layers of the Primary Motor Cortex during a Hand Reach Task*

11:00 – *Coffee break*

11:30 – **Idan Segev** – The Hebrew University of Jerusalem, Israel

*What Makes Human Cortical Neurons Distinctive?*

12:10 – **Mickey London** – The Hebrew University of Jerusalem, Israel

*Adrenergic Modulation Regulates Dendritic Excitability of Layer 5 Pyramidal Neurons In Vivo*

12:50 – *Lunch break*

Session IV – Chair: Udi Zohary
14:00 – **Sabine Kastner** – Princeton University, USA

*Neural Dynamics of the Primate Attention Network*

14:50 – **Galit Yovel** – Tel Aviv University, Israel

*Beyond Faces: A Comprehensive Framework for Person Recognition*

15:30 – *Coffee break*

16:00 – **Jack Gallant** – University of California, Berkeley, USA

*The Interface between Vision and Language*
Wednesday, June 28th

Session V – Chair: Daphna Weinshall
9:30 – James DiCarlo – Massachusetts Institute of Technology, USA
Reverse Engineering Primate Visual Object Perception
10:20 – Yair Weiss – The Hebrew University of Jerusalem, Israel
Neural Networks, Graphical Models and Image Restoration

11:00 – Coffee break

11:30 – Hamutal Slovin – Bar Ilan University, Israel
Encoding Local Stimulus Attributes and Higher Visual Functions in V1 of Behaving Monkeys

12:10 – Lunch break

Session VI – Chair: Aviv Mezer
13:20 – Daphna Shohami – Columbia University, USA
How Memory Guides Value-Based Decisions
14:10 – Yonatan Loewenstein – The Hebrew University of Jerusalem, Israel
Intertemporal Conflicts – From Past to Future

14:50 – Coffee break

Session VII – Chair: Yossi Grodzinsky
15:20 – Shlomit Yuval-Greenberg – Tel-Aviv University, Israel
The Temporal Dynamics of Visual Exploration
16:00 – Leon Deouell – The Hebrew University of Jerusalem, Israel
Visual Categorical Perception Beyond Onsets

16:40 – Coffee break

17:10 – Angela Friederici – Max Planck Institute for Cognitive and Brain Sciences, Leipzig, Germany
The Neural Language Network: Structure and Function
Thursday, June 29th

Session VIII – Chair: Yifat Prut
9:30 – **Wolfram Schultz** – University of Cambridge, UK
*Getting the Best Reward: Neuronal Mechanisms for Utility Maximisation*

10:20 – **Hagai Bergman** – The Hebrew University of Jerusalem, Israel
*The Subthalamic Nucleus and the Striatum – Driving Force vs. Fine Tuning of Downstream Basal-Ganglia Networks*

11:00 – *Coffee break*

11:30 – **Kathleen Cullen** – Johns Hopkins University, USA
*Neural Representations of Natural Self Motion: Implications for Perception & Action*

12:10 – *Lunch break*

Session IX – Chair: Benny Hochner
13:20 – **Michael Long** - New York University School of Medicine, USA
*How Does the Brain Generate Behavioral Sequences?*

14:10 – **Ronen Segev** - Ben Gurion University, Israel
*What Can Fishes Teach Us About the Brain?*

14:50 – **Yossi Yovel** – Tel Aviv University, Israel
*From Sensory Perception to Foraging Decision Making - The Bat’s Point Of View*

15:30 – *Coffee break*

Session X – Chair: Adi Mizrahi
16:00 – **Yaniv Ziv** – Weizmann Institute of Science, Israel
*Multiplexing Information About Where and When in Hippocampal Neural Codes for Long Term Memory*

16:40 – **Edvard Moser** – Kavli Institute for Systems Neuroscience, Norway
*Organization of the Medial-Entorhinal Space Network*

17:30 – *Organizing Committee* – Closing remarks