

ELSC Annual Retreat 2021

June 8-9, 2021 | C Hotel, Neve Ilan, Aravah hall

Organizing committee: Prof. Yoram Burak and Dr. Naomi Habib

Tuesday, June 8th

08:15 Bus departure to Neve Ilan from Edmond J. Safra Campus. Departure at **08:30 SHARP!**

09:00 *Arrival at C Hotel in Neve Ilan & Coffee reception*

09:30 – 09:35 **Opening remarks**

09:35 – 11:00 Session I, Chair: Israel Nelken

Ami Citri: “My big question”

Contributed talks:

Asael Y. Sklar (Zohary Lab): Social face understanding after prolonged early-onset visual deprivation

Shir Filo (Mezer Lab): Uncovering the specificity of quantitative MRI to different molecular forms of iron in the brain

Ana Polterovich (Nelken Lab): Spatial learning in a complex environment

11:00 – 11:20 *Coffee break*

11:20 – 11:50 **Jonathan Kadmon:** Computation and learning in cortico-cerebellar loop models

11:50 – 12:30 **Breakout Meetings (#1)**

12:30 – 13:30 *Lunch in hotel's dining room*

13:30 – 15:00 Session II, Chair: Adi Mizrahi

Merav Ahissar: “My big question”

Contributed talks:

Toviah Moldwin (Segev Lab): The gradient clusteron: A model neuron that learns to solve classification tasks via dendritic nonlinearities, structural plasticity, and gradient descent

Amos D. Boasson (Ahissar Lab): Working memory training –what does it actually improve and how?

Lightning Talks (Poster preview):

David Lipton (Citri Lab): Ventrolateral striatum (VLS) centric neural circuits select specific orofacial actions in context-dependent manner

Adi Doron (Goshen Lab): Navigating by the stars: the role of astrocytes in spatial cognition

Nir Segal (Grodzinsky Lab): The processing of double negation

Ben Title (Binshtok Lab): Encoding of noxious stimuli by projection neurons of trigeminal nucleus caudalis in normal and pathological conditions

Gilad Green (Habib Lab): The cellular landscape of the aged and Alzheimer's human brains

15:00 – 15:15 *Coffee break*

15:15 – 16:20 Session III, Chair: Hermona Soreq

David Omer: “My big question”

Contributed talks:

Nadav Ben Shushan (Burak Lab): Fixational drift is driven by diffusive dynamics in central neural circuitry

Dina Rekler (Kalcheim Lab): The end of neural crest cell production and emigration is regulated by retinoic acid-dependent BMP signaling

Aviv Mezer: “My big question”

16:20 – 16:30 *Coffee break*

16:30 – 17:10 **Breakout Meetings (#2): Introduction to technical peers**

17:10 – 18:30 **Poster session (on hotel's lawn)**

18:30 – 19:30 *Dinner (in 'Sharon' hall)*

19:30 – 20:30 **Social activity initiated by ELSC students**

20:30 – 21:30 **Live music: Woli's project**

21:40 Bus departure to Edmond J. Safra Campus

Wednesday, June 9th

08:15 Bus departure to Neve Ilan from Edmond J. Safra Campus. Departure at **08:30 SHARP!**

09:00 *Arrival at C Hotel in Neve Ilan & Coffee reception*

09:30 – 11:00 Session IV, Chair: Leon Deouell

Lilach Avitan: "My big question"

Contributed talks:

Uri Cohen (Sompolinsky Lab): Capacity and errors in classification of object manifolds

Yoav Mathov (Carmel Lab): Inferring neural epigenetic changes in ancient human samples

Ruoyi Cao (Deouell lab): Maintenance of bound or independent features in visual working memory is task-dependent

Shaul Hochstein: "My big question"

11:00 – 11:20 *Coffee break*

11:20 – 12:30 Session V, Chair: Idan Segev

Naomi Habib: "My big question"

Contributed talks:

Ayelet Gertsovski (Ahissar lab): Reduced behavioral sensitivity to sound regularities in dyslexia is associated with reduced auditory-cortex sensitivity

Nora Vrieler (Yarom lab): Axonal spines on Inferior Olive neurons generate intrinsic regenerative currents when activated by synaptic input

Yoram Burak: "My big question"

12:30 – 13:25 *Lunch in hotel's dining room*

13:25 – 14:45 Session VI, Chair: Yifat Prut

Contributed talks:

Lotem Elber-Dorozko (Loewenstein Lab): The blind leading the blind—how do we choose when no one knows anything?

Elior Drori (Mezer lab): Parkinson's disease and aging related microstructural gradients in the human striatum detected in vivo with quantitative MRI

Aya Ben-Yakov: What is an episode in episodic memory?

14:45 – 15:15 **Breakout Meetings (#3): Brainstorming big questions**

15:15 – 15:30 **Summary of big questions & Closing remarks**

15:30 – 15:45 *Preparation for the hike*

15:45 ~ 17:30 Hike at Neve Ilan branch – 'Mihlalat' forest

17:30 Bus departure to Edmond J. Safra Campus