The Dynamic Organism: from Molecules to Cognition –
Hebrew University of Jerusalem (HUJI) & University College London (UCL) Joint Meeting
November 26-27, 2018
Program

Monday, November 26th
8:30-8:40 – CONFERENCE OPENING

Theme 1: From molecules to behavior and its disorders
8:40-9:10 – Frances Edwards, UCL – Alzheimer’s disease: synapses, plaques, tangles and microglia, how are they related?
9:10-9:40 – Naomi Habib, HUJI – From single cells to cellular and molecular landscapes of neurodegenerative diseases
9:40-10:10 – Selina Wray, UCL – Modelling dementia with human stem cells: progress and challenges

10:10-10:30 – COFFEE BREAK

Theme 2: Nociception and pain
10:30-11:00 – Marshall Devor, HUJI – Brain-state transitions and pain-free surgery
11:00-11:30 – Giandomenico Ianetti, UCL – Pain, peripersonal space and defensive actions

11:30-12:00 – COFFEE BREAK

Theme 3: The hippocampus: Development, plasticity, function
12:00-12:30 – Yoram Burak, HUJI – Velocity coupling of grid cell modules in the entorhinal cortex
12:30-13:00 – Inbal Goshen, HUJI – The Star Cells of Memory: Hippocampal astrocytes modulate recent and remote memory

13:00 -14:30 – LUNCH

Theme 4: The perceptual brain: olfaction
14:30-15:00 – Andreas Schaefer, UCL – Mammalian olfaction is a high bandwidth sense
15:00-15:30 – Dan Rokni, HUJI – Background-dependent dynamics of olfactory figure-ground segregation
15:30-16:00 – Adi Mizrahi, HUJI – Stability and plasticity of Mitral Cell connectivity in mothers
Tuesday, November 27th

Theme 5: The changing brain in health and disease
8:30-9:00 – Yonatan Loewenstein, HUJI – From choice architecture to choice engineering
9:00-9:30 – Jonathan Roiser, UCL – A computational approach to understanding motivational symptoms in depression
9:30-10:00 – Ami Citri, HUJI – The Claustrum supports resilience to distraction

10:00-10:30 – COFFEE BREAK
10:30-11:00 – Andrew Macaskill, UCL – Dichotomous function of hippocampal sub circuits

Theme 6: The aging organism
11:00-11:30 – Ehud Cohen, HUJI – Deciphering the proteostasis network’s response to dissimilar challenges
11:30-12:00 – David Gems, UCL – New discoveries about ageing in C. elegans

12:00-12:30 – COFFEE BREAK

Theme 7: The perceptual brain: vision
12:30-13:00 – Yoni Pertzov, HUJI – Extending the “active vision loop”: The role of memory
13:00-13:30 – Jasper Poort, UCL – Neural circuits for selection of behaviourally relevant visual input in mouse visual cortex during learning and task-switching

13:30-14:30 – LUNCH
14:30-15:00 – Sam Solomon, UCL – Dynamics of adaptation in visual cortex
15:00-15:30 – Ayelet Landau, HUJI – Rhythmic motifs in cognition: the case of rhythmic sampling

15:30-15:45 – CLOSING REMARKS

Link to abstracts: elsc.huji.ac.il/content/huji-ucl-joint-meeting