

**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 Iannetti, *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