The dynamic brain: synaptic plasticity and intrinsic volatility

November 28th, 2019

ELSC: Becker Auditorium, Goodman Brain Sciences Building,
The Hebrew University of Jerusalem

Thursday 28.11.19

9:50-10:00  Opening words

10:00-10:40  Adi Mizrahi (The Hebrew University): New neurons - a solution to the stability/plasticity dilemma in olfaction

10:40-11:20  Simon Rumpel (Mainz University): Recombination of cell assemblies during basal conditions and learning

11:20-11:40  Coffee Break

11:40-12:20  Noam Ziv (Technion): Activity dependent and independent determinants of synaptic size diversity

12:20-13:00  Naama Brenner (Technion): Modeling synaptic populations and network dynamics

13:00-14:00  Lunch Break

14:00-15:00  Haruo Kasai (Tokyo University): The plasticity and fluctuations of dendritic spines and their behavioral consequences

15:00-15:20  Coffee Break

15:20-16:00  Alessio Attardo (MPI of Psychiatry): Stability of excitatory structural connectivity predicts the probability of CA1 pyramidal neurons to become engram neurons

16:00-16:40  Yaniv Ziv (Weizmann Institute): Stability and dynamics in neural codes for long-term memory of places and events

16:40-17:00  Coffee Break

17:00 -17:40  Inna Slutsky (Tel-Aviv University): Plasticity and stability of hippocampal circuits: From basic principles to malfunctions

17:40-18:20  Yonatan Loewenstein (The Hebrew University): Choice bias as a window to the microscopic dynamics of choice