Sunday, November 8

3:00 pm	Check-in
6:00 pm	Reception (Lobby)
7:00 pm	Dinner
8:00 pm	Welcome and Opening Remarks
8:05 pm	Keynote: John O'Keefe , University College London <i>Can entorhinal grid cells provide the metric for the cognitive map?</i>
9:05 pm	Refreshments available at Bob's Pub

NOTE: Meals are in the **Dining Room** Talks are in the **Seminar Room** Posters are in the **Lobby**



Monday, November 9

<u>Monday,</u>	November 9	Talks are 15 minutes + 5 minutes for O&A
7:30 am	Breakfast (service ends at 8:45am)	
9:00 am	Session 1 Chair: Eva Pastalkova	
9:00 am	Howard Eichenbaum, Boston University Hippocampal-entorhinal 'complexity': The key to mapping memories	
9:20 am	Loren M. Frank , HHMI/University of California, San Francisco <i>A hippocampal network dedicated to spatial coding during immobility</i>	
9:40 am	Serena M. Dudek, National Institute of Environmental Health Sciences, NIH Social and novel contexts modify hippocampal CA2 representations of space	
10:00 am	Jozsef Csicsvari, Institute of Science and Technology Austria Activation of medial entorhinal cells during a spatial working memory task	
10:20 am	Break	
11:00 am	Session 2 Chair: Brenda Bloodgood	
11:00 am	James J. Knierim, Johns Hopkins University Hippocampal Computations: Entorhinal Inputs to CA1 Outputs	
11:20 am	Laura Colgin, The University of Texas at Austin Spatial sequence coding differs during slow and fast gam hippocampus	ma rhythms in the
11:40 am	David Foster , Johns Hopkins University <i>The mechanisms and functions of hippocampal place cell</i>	sequences
12:00 pm	Andre Fenton , New York University <i>The dynamic structure of cognition: If space were time?</i>	
12:20 pm	Lunch (service ends at 1:00pm)	
2:00 pm	Session 3 Chair: Giorgio Ascoli	
2:00 pm	Nelson Spruston , Janelia Research Campus/HHMI Neuronal complexity and diversity in the hippocampus	
2:20 pm	Thomas Klausberger , Medical University of Vienna Neuronal circuit operations along the septo-temporal axi	s of the CA1 hippocampus



Hippocampal-Entorhinal Complexities: Maps, Cell Types and Mechanisms

2:40 pm	Stefan Remy , German Center for Neurodegenerative Diseases Subcortical circuits controlling locomotor activity and hippocampal function
3:00 pm	Sandro Romani , Janelia Research Campus/HHMI Associative neural network model for storage and retrieval of time-varying stimuli
3:20 pm	Break
3:50 pm	Session 4 Chair: Lisa Giocomo
3:50 pm	Brenda L. Bloodgood , University of California, San Diego <i>Transcriptionally regulated inhibitory circuit plasticity in the mouse hippocampus</i>
4:10 pm	Hannah Monyer , Medical Faculty of Heidelberg University and DKFZ GABAergic neurones control the activity of spatial coding and synchronous network activity in the hippocampal-entorhinal formation thereby affecting spatial learning
4:30 pm	Ivan Soltesz, Stanford School of Medicine Spatiotemporal organization of hippocampal inhibitory-excitatory microcircuits
4:50 pm	Short break
5:05 pm	Poster Blitz! (5 min / 3 slides each)
ł	Chair: Nelson Spruston
•	 Chair: Nelson Spruston Dmitriy Aronov, Princeton University Giorgio Ascoli, George Mason University Simon Chamberland, Universite Laval Falko Fuhrmann, German Centre for Neurodegenerative Diseases Abhilasha Joshi, University of Oxford Daniel Justus, German Centre for Neurodegenerative Diseases Kenneth Kay, University of California, San Francisco Yiding Li, Chinese Academy of Sciences Ayelet Sarel, Weizmann Institute of Science Junghyup Suh, Massachusetts Institute of Technology Yingxue Wang, Janelia Research Campus/HHMI
6:05 pm	Proster Bill2. (5 min / 5 states cuch)Chair: Nelson SprustonDmitriy Aronov, Princeton UniversityGiorgio Ascoli, George Mason UniversitySimon Chamberland, Universite LavalFalko Fuhrmann, German Centre for Neurodegenerative DiseasesAbhilasha Joshi, University of OxfordDaniel Justus, German Centre for Neurodegenerative DiseasesKenneth Kay, University of California, San FranciscoYiding Li, Chinese Academy of SciencesAyelet Sarel, Weizmann Institute of ScienceJunghyup Suh, Massachusetts Institute of TechnologyYingxue Wang, Janelia Research Campus/HHMIPoster Reception
6:05 pm 7:30 pm	 Chair: Nelson Spruston Dmitriy Aronov, Princeton University Giorgio Ascoli, George Mason University Simon Chamberland, Universite Laval Falko Fuhrmann, German Centre for Neurodegenerative Diseases Abhilasha Joshi, University of Oxford Daniel Justus, German Centre for Neurodegenerative Diseases Kenneth Kay, University of California, San Francisco Yiding Li, Chinese Academy of Sciences Ayelet Sarel, Weizmann Institute of Science Junghyup Suh, Massachusetts Institute of Technology Yingxue Wang, Janelia Research Campus/HHMI Poster Reception
6:05 pm 7:30 pm 8:30 pm	 Chair: Nelson Spruston Dmitriy Aronov, Princeton University Giorgio Ascoli, George Mason University Simon Chamberland, Universite Laval Falko Fuhrmann, German Centre for Neurodegenerative Diseases Abhilasha Joshi, University of Oxford Daniel Justus, German Centre for Neurodegenerative Diseases Kenneth Kay, University of California, San Francisco Yiding Li, Chinese Academy of Sciences Ayelet Sarel, Weizmann Institute of Science Junghyup Suh, Massachusetts Institute of Technology Yingxue Wang, Janelia Research Campus/HHMI Poster Reception Dinner Keynote: Edvard Moser, Norwegian University of Science and Technology Grid cells and the entorhinal map of space



Tuesday, November 10

7:30 am	Breakfast (service ends at 8:45am)	
9:00 am	Session 5 Chair: James Knierim	
9:00 am	Neil Burgess , University College London Environmental anchoring of head direction in a computational model of retrosplenial cortex	
9:20 am	Lisa Giocomo, Stanford School of Medicine Calculating the algorithms of spatial maps	
9:40 am	Andreas V. Herz, Ludwig-Maximilians-Universität München Decoding the population activity of grid cells across multiple spatial scales	
10:00 am	Ila Fiete , University of Texas at Austin <i>The circuit mechanisms of grid cell activity.</i>	
10:20 am	Break	
10:50 am	Session 6 Chair: Judit Makara	
10:50 am	Michael Brecht , Humboldt-Universitat zu Berlin <i>A grid cell grid</i>	
11:10 am	Takashi Kitamura , Massachusetts Institute of Technology Complementary roles of multiple medial entorhinal cortex inputs	
11:30 am	Michael E. Hasselmo , Boston University Grid cells and the coding of space and time in entorhinal cortex	
11:50 am	John Lisman , Brandeis University Grid cells, place cells, and the sense of place: Fitting the pieces of the puzzle together	
12:10 pm	Clifford Kentros , Norwegian University of Science and Technology <i>Transgenic investigation of the neural circuitry of memory</i>	
12:30 pm	Lunch (service ends at 1pm)	
1:15 pm	Tour (optional – meet at reception)	



2:15 pm	Session 7 Chair: Dmitriy Aronov
2:15 pm	Mayank R. Mehta, University of California, Los Angeles Contribution of visual and locomotion cues to hippocampal spatial and directional selectivity
2:35 pm	Jerome Epsztein, Institut de Neurobiologie de la Méditerranée Influence of visual cues on the use of idiothetic or allocentric strategies for spatial position coding in virtual linear mazes
2:55 pm	Cynthia F. Moss , Johns Hopkins University Bat hippocampal place field tuning depends on sonar sample rate
3:15 pm	Nachum Ulanovsky , Weizmann Institute of Science Neural basis of 3D goal-directed navigation in bats
3:35 pm	Break
4:05 pm	Session 8 Chair: Albert Lee
4:05 pm	Matthew Wilson , Massachusetts Institute of Technology <i>Hippocampal-VTA interactions during spatial choice behavior, quiet wakefulness,</i> <i>and sleep</i>
4:25 pm	George Dragoi, Yale School of Medicine Neuronal ensembles underlying internally-generated representations
4:50 pm	Rosa Cossart , Institut de Neurobiologie de la Méditerranée Internally recurring hippocampal sequences as a population template of spatio- temporal information
5:10 pm	Andres Grosmark , Columbia University De novo versus preconfigured replay of experience by distinct subpopulations of hippocampal neurons
5:30 pm	Eva Pastalkova , Janelia Research Campus/HHMI Episodic memory encoding by hippocampal neurons
5:50 pm	Poster Reception
7:15 pm	Dinner
8:15 pm	Refreshments available at Bob's Pub



Wednesday, November 11

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Session 9 Chair: Laura Colgin
9:00 am	Judit K. Makara, Institute of Experimental Medicine, Hungary Location-dependent synaptic plasticity rules by dendritic spine cooperativity
9:20 am	Steven A. Siegelbaum, Columbia University Refining memories through the cortico-hippocampal circuit
9:40 am	Jeff Magee , Janelia Research Campus/HHMI Novel place field formation in hippocampal area CA1
10:00 am	Albert Lee, Janelia Research Campus/HHMI Intracellular features of hippocampal activity in novel and familiar environments
10:20 am	Break
10:50 am	Session 10 Chair: Jeff Magee
10:50 am	Mark J. Schnitzer , HHMI/Stanford University Long-term refinement of CA1 hippocampal ensemble representations of associations between reward and spatial location
11:10 am	Attila Losonczy , Columbia University Functional imaging of hippocampal microcircuits in behaving mice
11:30 am	Cristina Domnisoru , Princeton University Monosynaptic inputs to hippocampal place cells
11:50 am	Christoph Schmidt-Hieber, University College London Active dendrites promote robust grid cell firing
12:10 pm	Lunch and Departure
1:00 pm 2:00 pm 3:00 pm	First shuttle to Dulles Second shuttle to Dulles Last shuttle to Dulles

