

Program EBPS 2016 AMSTERDAM

Thursday, September 15

| | |
|--|---|
| | Welcome – Bruce Hope (NIDA IRP, NIH, USA) |
| Keynote lecture | |
| 9:00 | Introduction from Cyriel Pennartz |
| 9:10 | Bruce McNaughton (University of California, Irvine, USA) |
| | The extraction of knowledge from memory: How our brains create a model of the world |
| Session 1 – Neuronal ensembles in learning and perception Chair: Carien Lansink (University of Amsterdam, Netherlands) | |
| 10:00 | Eva Pastalkova (Janelia Farms, USA) |
| | The illusion of sharp-wave replay |
| 10:30 | David Redish (University of Minnesota, USA) |
| | Observing cognitive processes with neural ensembles: from planning and deliberation to imagination and mind-wandering |
| 11:00 | Coffee/Tea break |
| | |
| 11:30 | David Foster (Johns Hopkins University, USA) |
| | Two flavors of awake hippocampal replay: learning vs planning |
| 12:00 | Jorrit Montijn (University of Amsterdam, Netherlands) |
| | Temporal activation sequences in mouse V1 populations correlate with the detection of visual stimuli |
| 12:30 | Poster blitz 1 |
| | |
| 13:00 | Lunch and Posters |

Program EBPS 2016 AMSTERDAM

Thursday, September 15

| | |
|---|--|
| <u>Session 2 – Calcium imaging of neuronal ensembles during behavior</u> | |
| Chair: Jones Parker (Stanford University, USA) | |
| 14:00 | Jones Parker (Stanford University, USA) |
| | Loss of ensemble neural coding and imbalanced striatal pathway dynamics in a parkinsonian state |
| 14:30 | Nathalie Rochefort (University of Edinburgh, UK) |
| | Behavioral-state modulation of inhibition is context-dependent and cell type-specific in mouse visual cortex |
| 15:00 | Yaniv Ziv (Weizmann Institute, Israel) |
| | Hippocampal ensemble dynamics timestamp events in long-term memory |
| 15:30 | Coffee/Tea break |
| | |
| 16:00 | Poster blitz 2 |
| 16:30 | Ken Harris (University College London, UK) |
| | Two photon imaging of >10,000 neurons reveals large-scale structure of population activity in visual cortex |
| 17:00 | Vania Cao (Inscopix, USA) |
| | Imaging Neuronal Ensembles with nVista |
| | |
| <u>Keynote lecture</u> | |
| 17:30-18:15 | Cyriel Pennartz (University of Amsterdam, Netherlands) |
| | Ensembles as intermediates between neurons and cognition |

Program EBPS 2016 AMSTERDAM

Friday, September 16

| | |
|---|---|
| <u>Keynote lecture</u> | |
| 9:00 | Introduction from Bruce Hope |
| 9:05 | Mark Mayford (University of California, San Diego, USA) |
| | Mapping and Manipulating Activity in the Mouse Brain |
| | |
| <u>Session 3 – Technologies for studying Fos-expressing neuronal ensembles</u> | |
| Chair: Leslie Whitaker (NIDA IRP, NIH, USA) | |
| 10:00 | Bruce Hope (NIDA IRP, NIH, USA) |
| | Technologies for examining Fos-expressing neuronal ensembles in behavior |
| 10:30 | Steve Kushner (Erasmus MC, Netherlands) |
| | Molecular mechanisms of consolidation in dentate gyrus neuronal ensembles |
| 11:00 | Coffee/Tea break |
| | |
| 11:30 | Leslie Whitaker (NIDA IRP, NIH, USA) |
| | Identifying functional alterations in neuronal ensembles of medial prefrontal cortex following food self-administration |
| 12:00 | Leszek Kaczmarek (Nencki Institute, Poland) |
| | c-Fos imaging and function implicate central amygdala in appetitive learning |
| | |
| 12:30-14:00 | Lunch and Posters |

Program EBPS 2016 AMSTERDAM

Friday, September 16

| | |
|---|---|
| Session 4 – Neuronal ensembles in addiction | |
| Chair: Eisuke Koya (University of Sussex, UK) | |
| 14:00 | Eisuke Koya (University of Sussex, UK) |
| | The excitability properties of corticostriatal neuronal ensembles activated by sucrose memory retrieval |
| 14:30 | Anna Grosso (University of Torino, Italy) |
| | Associative value-coding neurons in the higher order sensory cortex drive fear and appetitive behaviors |
| 15:00 | Wolfgang Sommer (University of Heidelberg, Germany) |
| | Investigating the role of prefrontocortical networks in cue-reactivity by activity-tagging methods |
| 15:30 | Nobu Suto (Scripps Institute, USA) |
| | Neuronal Ensembles in Relapse-Suppression by Drug Omission Cues |
| 16:00 | Coffee/Tea break |
| Session 5 – Neuronal ensembles in fear conditioning | |
| Chair: Steve Ramirez (Massachusetts Institute of Technology, USA) | |
| 16:30 | Steve Ramirez (Massachusetts Institute of Technology, USA) |
| | Artificially activating positive memories to suppress and prevent psychiatric disease-like states |
| 17:00 | Cliff Kentros (Kavli Institute, Norway) |
| | Transgenic Investigation of the Neural Circuitry of Memory |
| 17:30 | Christine Denny (Columbia University, USA) |
| | Activation of dentate gyrus memory traces rescues age-related cognitive decline |
| 18:00 | Closing remarks and discussion |