THE SENSE OF MEMORY: INTEGRATION AND REPRESENTATION OF SENSORY PROCESSES

25th - 26th of April 2017
Veranstaltungszentrum, Ruhr University Bochum

Programme

April 25th  9:15  Welcome - opening of the conference
Denise Manahan-Vaughan  Director / Dean of Studies IGSN / Speaker SFB 874
Ulf Eysel  Speaker IGSN

Session 1  9:25  Cellular Communication and Neuronal Networks

9:30  Cornelius Schwarz
Werner Reichardt Center of Integrative Neuroscience, University of Tübingen, Germany
Linking cortical columns. What is the functional basis of learned associations?

10:05  Nathalie Rochefort
Centre for Integrative Physiology, University of Edinburgh, UK
Behavioral state modulation of inhibition in mouse visual cortex

10:40  Coffee break / Poster Session / Brainstorming Session (1)

12:00  Christine Grienberger
HHMI/Janelia Research Campus, Ashburn, USA
Inhibition enhances spatial selectivity in CA1 place cells

12:35  Lunch break
April 25th - Afternoon

Session 2: 13:40 Interaction of cortical, cortico-cortical and subcortical structures

13:45 Nadine Ravel
Center for research in Neuroscience (CRNL), University of Lyon, France
Detecting learning-induced modulation of oscillatory activities in olfactory memory network: a new functional imaging?

14:20 Dora Angelaki
Department of Neuroscience, Baylor College of Medicine, Houston, USA
A multisensory internal model of gravity and its role in spatial orientation

14:55 Coffee break / Brainstorming Session (2)

15:45 Jeffry Isaacson
Center for Neural Circuits & Behavior, Department of Neuroscience, University of California, La Jolla, USA
Cortical circuits underlying audition

16:20 individual lab visits / individual meetings with RUB scientist (by request)
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution</th>
<th>Topic</th>
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<tbody>
<tr>
<td>9:20</td>
<td>Alison R. Preston</td>
<td>Center for Learning and Memory, University of Texas, Austin, USA</td>
<td>Transforming experience into conceptual knowledge</td>
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<tr>
<td>9:55</td>
<td>Sebastien Hélie</td>
<td>Department of Psychological Sciences, Purdue University, West Lafayette, USA</td>
<td>Rule-based categorization in a multiple-system framework</td>
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<td>10:30</td>
<td>Coffee break / Poster Session / Brainstorming Session (3)</td>
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<td>11:30</td>
<td>Fabián Soto</td>
<td>Computational Cognitive Neuroscience, University of Florida, Miami, USA</td>
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<td>12:05</td>
<td>Lunch break</td>
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April 26th - Afternoon

Session 4 13:10 Higher order representations of memory and sensory experiences

13:15 David Redish
Department of Neuroscience, University of Minnesota, Minneapolis, USA
Mental time travel: imagining the past and remembering the future

13:50 Coffee break / Brainstorming Session (4)

14:40 Pascal Fries
Ernst Strüngmann Institute (ESI) for Neuroscience, Frankfurt/M., Germany
Rhythms for cognition: communication through coherence

15:15 Anton Sirota
Department Biology II, Ludwig-Maximilians-University Munich, Germany
tba

16:00 Farewell – end of conference