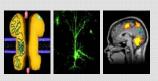


### **SFB 874 / IGSN**

### CONFERENCE



## SENSORY PROCESSES: FROM MOLECULES TO COGNITION

12<sup>th</sup> - 13<sup>th</sup> of April 2016

Veranstaltungszentrum, Ruhr University Bochum

### **Programme**

April 12 <sup>th</sup>	9:15	Welcome - opening of the conference			
		Denise Manahan-Vaughan	Director / Dean of Studies IGSN / Speaker SFB 874		
		<b>Ulf Eysel</b> Speaker IGSN			

Session 1	9:25	Cellular Mechanisms

Department of Systems Neuroscience, Göttingen University

The dynamic architecture of the adult visual cortex or how can I keep my brain young?

10:05 Tobias Moser

9:30

Siegrid Löwel

University Medical Center Göttingen / Max Planck Institute for Biophysical Chemistry

Inner hair cells decompose auditory signals through active zones with different Ca<sup>2+</sup>-influx

10:40 Coffee break / Poster Session

12:00 Dirk Dietrich

Laboratory of Experimental Neurophysiology, Department of Neurosurgery, University of Bonn Medical School

Activity-dependent myelination and neuro-glia synapses: role of oligodendrocyte precursor cells

12:35 Lunch break

# SENSORY PROCESSES: FROM MOLECULES TO COGNITION

### April 12<sup>th</sup> - Afternoon

Session 2:	13:40	Neuronal Networks and Circuits
	13:45	Benedikt Grothe Ludwig-Maximilians-University München / Max Planck Institute of Neurobiology, Martinsried The evolution of neuronal circuits for sound localization
	14:20	Rohini Kuner Institute of Pharmacology, Heidelberg University Cortical circuits in nociception and chronic pain
	14:55	Coffee break / Brainstorming session (1) and (2)

#### 15:45 Mark Hübener

Max Planck Institute of Neurobiology, Martinsried

How sensory experience and learning change neuronal responses in the visual cortex

# SENSORY PROCESSES: FROM MOLECULES TO COGNITION

### April 13<sup>th</sup> - Morning

Session 3 9:15 Neuronal Oscillations and Cellular Communica	Session 3 9	:15 N	Neuronal	<b>Oscillations</b>	and	Cellular	Communicati	on
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#### 9:20 Heinz Beck

Department of Epileptology, Experimental Epileptology and Cognition Research, Life and Brain Center, University of Bonn Medical Center

Mechanisms of sparse coding in the dentate gyrus

### 9:55 Andreas Draguhn

Institute of Physiology and Pathophysiology, Heidelberg University

Multineuronal activity patterns and hippocampal network oscillations

#### 10:30 Coffee break / Poster Session

#### 11:30 Andreas Engel

Department of Neurophysiology and Pathophysiology, University Medical Center Hamburg-Eppendorf

**Intrinsic Coupling Modes and Cognition** 

12:05 Lunch break

# SENSORY PROCESSES: FROM MOLECULES TO COGNITION

**April 13**<sup>th</sup> - Afternoon

Session 4	13:10	Sensory Integration and Representation
	13:15	Denise Manahan-Vaughan Department of Neurophysiology, Ruhr University Bochum Neuronal processing and integration of sensory information by the hippocampus
	13:50	Coffee break / Brainstorming session (3) and (4)

14:40	Jan Born Institute for Medical Psychology and Behavioural Neurobiology, University Tübingen
	Sleep, Memory and Perception
15:15	Onur Güntürkün
	Department of Biopsychology, Ruhr University Bochum

Visual categories in the pigeon brain

16:00 FAREWELL – end of conference



