

IGSN / SFB 874 CONFERENCE



MOLECULAR AND NEURAL CORRELATES OF MEMORY AND COGNITION

9th - 10th of April 2019

Veranstaltungszentrum, Ruhr University Bochum

Programme

April 9 th	9:15	Welcome - opening of the conference Denise Manahan-Vaughan Director IGSN / Speaker SFB 874
Session 1	9:25	Molecular substrates of memory and cognition
	9:30	Hannah Monyer Clinical Neurobiology, Medical Faculty of Heidelberg University and German Cancer Research Center (DKFZ), Heidelberg, Germany
		GABAergic neurones - the cellular substrate for local and long-range synchrony

10:05 Anna Fejtova

Molecular Psychiatry, University Hospital, Friedrich-Alexander University Erlangen-Nürnberg, Nürnberg, Germany

Presynaptic homeostatic plasticity contributes to the activity-driven remodelling of cortical networks

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

12:00 Susanne Schoch McGovern

Institute of Neuropathology, University of Bonn Medical Center, Bonn, Germany

Control of presynaptic function and plasticity by strategic phosphorylation

12:35 Lunch break





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April 9th - Afternoon

Session 2:	13:40	Neural	mechanisms	underlying	memory	and cognition

13:45 Mara Mather

Gerontology and Psychology, USC, Los Angeles, USA

How arousal increases neural gain and attentional selectivity in younger vs. older adults

14:20 Tatiana Korotkova

Neuronal Circuits and Behavior, Max Planck Institute for Metabolism Research, Cologne, Germany

To eat? To sleep? To run? Neural dynamics of innate behaviors

14:55 Coffee break / Brainstorming Session (2)

15:45 Carien Lansink

Swammerdam Institute for Life Sciences, Center for Neuroscience, University of Amsterdam, Amsterdam, the Netherlands

How visual is the visual cortex? The influence of auditory information on the detection and processing of visual stimuli

16:20 individual meetings with RUB scientists





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April 10th - Morning

Session 3	9:15	Subcortical contributions to memory and cognition
	9:20	Dora Angelaki Mechanical and Aerospace Engineering, NYU, New York, USA

A gravity-based three-dimensional compass in the mouse brain

9:55 Livia de Hoz García-Bellido
Neuroscience Research Center, Charité Medical University, Berlin, Germany
Subcortical coding of statistical learning

10:30 Coffee break / Poster Session / Brainstorming Session (3)

11:25 Laura Ewell

Institute of Experimental Epileptology and Cognition Research, University of Bonn Medical Center, Bonn, Germany

The impact of pathological high frequency oscillations on hippocampal network activity in rats with chronic epilepsy

12:00 Lunch break





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April 10th - Afternoon

Session 4	14:00	Cortical plasticity and information processing as an
		orchestrator of cognitive flexibility, memory and cognition

14:05 Susanne Diekelmann

Institute of Medical Psychology and Behavioral Neurobiology, Tübingen University, Tübingen Germany

Cueing reactivation during sleep to facilitate memory consolidation

14:40 Coffee break / Brainstorming Session (4)

15:20 Jenny Read

Institute of Neuroscience, Newcastle University, Newcastle, UK

The neural basis of depth perception: how binocular disparity is encoded in the primary visual cortex

16:00 FAREWELL – end of conference



