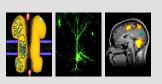


# IGSN / SFB 874 CONFERENCE



### MECHANISMS OF PERCEPTION, CATEGORISATION, MEMORY AND COGNITION

27<sup>th</sup> - 28<sup>th</sup> of April 2021
Online

#### **Programme**

		- 1 vg
April 27 <sup>th</sup>	9:00	Welcome - opening of the conference Denise Manahan-Vaughan Director IGSN / Speaker SFB 874
Session 1	9:15	Mechanisms and neural correlates of perception
	9:25	Michael Brecht Bernstein Center for Computational Neuroscience, Humboldt University, Berlin, Germany Large Brains & Bodies
	10:10	Laura Busse Division of Neurobiology, Faculty of Biology, LMU Munich, Germany Visual processing of feedforward and feedback signals in mouse thalamus

10 ==	
10:55	Coffee break
11:05	Mathilde Bonnefond Lyon Neuroscience Research Center (CRNL), INSERM UMRS 1028, CNRS UMR 5292, Université de Lyon, Lyon, France, Germany
	Role of alpha oscillations in anticipating and processing visual stimuli

12:00	<b>Brainstorming Session</b>
12:30	Lunch break





#### **IGSN / SFB 874 Conference:**

## MECHANISMS OF PERCEPTION, CATEGORISATION, MEMORY AND COGNITION

#### April 27<sup>th</sup> - Afternoon

Session 2: 13:30 Mechanisms and neural correlates of categorisation learning

13:40 Andreas Nieder

Institute of Neurobiology, Dept. of Biology, University of Tübingen, Germany

Number neurons for quantity categorization across vertebrate species

14:25 Nikolaus Kriegeskorte

Cognitive Imaging, Zuckerman Mind Brain Behavior Institute, Columbia University, New York, USA

Testing deep neural network models of human vision with brain and behavioral data

15:10 Coffee break

15:20 Jefferson Roy

The Picower Institute for Learning and Memory, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, USA

Prefrontal cortex activity during flexible categorization

16:00 Brainstorming Session

17:00 **GATHERTOWN** (only for speakers and PhD researchers)





#### **IGSN / SFB 874 Conference:**

## MECHANISMS OF PERCEPTION, CATEGORISATION, MEMORY AND COGNITION

#### April 28th - Morning

Session 3	9:30	Neural fundam	ents of memory	and cognition
-----------	------	---------------	----------------	---------------

#### 9:40 Monika Schönauer

Department of Psychology, Neuropsychology, University of Freiburg, Germany

Imaging memory consolidation in wakefulness and sleep

#### 10:25 Sebastien Bouret

CNRS - French National Centre for Scientific Research, Paris, France

Neural basis of motivation in monkeys: complementary roles of dopamine and noradrenaline

#### 11:10 Coffee break

#### 11:20 Guillén Fernández

Donders Institute for Brain, Cognition and Behavior, Radboud University Medical Center, Nijmegen, the Netherlands

Are there alternative routes into long-term memory?

12:05	Brainstorming Session
12:35	Lunch break





#### **IGSN / SFB 874 Conference:**

## MECHANISMS OF PERCEPTION, CATEGORISATION, MEMORY AND COGNITION

April 28th - Afternoon

Session 4	13:30	Mechanisms and neural correlates of associative memory

#### 13:40 Lisa Genzel

Donders Institute for Brain, Cognition and Behavior, Radboud University Medical Center, Nijmegen, the Netherlands

Learning large spatial environments: the HexMaze for mice and rats

#### 14:25 Santiago Canals

Neuroscience Institute (Spanish Research Council CSIC - UMH), Alicante, Spain

Binding cell assemblies into systems level memory engrams

1	15:10	Coffee	hreak

#### 15:20 Attila Losonczy

Department of Neuroscience, Columbia University, New York, NY, USA

Adaptive Stimulus Selection for Consolidation in the Hippocampus

16:00	Brainstorming Session
16:30	FAREWELL - end of conference



