IGSN / SFB 1280 / BIOME
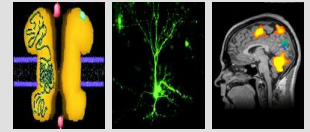# CONFERENCE

EXTINCTION LEARNING

23rd – 24th of April 2024

Veranstaltungszentrum, Ruhr University Bochum

Programme

April 23rd	**9:15**	**Welcome** - opening of the conference **Onur Güntürkün** Speaker SFB 1280 **Martin Hadamitzky** Core Speaker BIOME

Session 1	**9:25**	**Neural aspects of associative learning: Mechanisms and methods** Introduction: Julia Bihorac

	9:30	**Matthew Larkum** Charité, Humboldt University, Berlin, Germany **NMDA spikes in layer 1 - orchestrating semantic learning**
	10:05	**Sarah Ayash** Leibniz Institute for Resilience Research, Mainz, Germany **Neural basis of resilience to social stress**

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

	12:00	**Florian Freudenberg** Department of Psychiatry, Psychosomatic Medicine and Psychotherapy, Goethe-University, Frankfurt am Main, Germany **From cells to behavior: understanding the molecular mechanisms of glutamatergic synapses in mental disorder-related learning and memory deficits**

	12:35	**Lunch break**

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April 23rd - Afternoon

Session 2:   **13:40**   **Comparative hippocampal memory formation**

Introduction: Alaleh Sadraee

13:45   **Tom Smulders**
School of Psychology, Newcastle University, Newcastle upon Tyne, UK
Is spatial memory in birds with hippocampal specialization mediated by familiarity or recollection?

14:20   **Hannah Payne**
Mortimer B. Zuckerman Mind Brain Behavior Institute, Columbia University, New York, USA
Neural codes for physical and visual navigation in the hippocampus of food caching birds

14:55   **Coffee break / Brainstorming Session (2)**

15:45   **Uwe Mayer**
Center for Mind/Brain Sciences, University of Trento, Italy
Functional subdivisions of avian hippocampus based on immediate early gene studies.

16:20   **individual meetings** with RUB scientists

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April 24th - Morning

Session 3	9:20	**Translational and Behavioral Neuroscience**
		Introduction: Jael Caviola

9:20   **Grant S. Shields**
Department of Psychological Science, University of Arkansas, Fayetteville, USA

Acute stress and cognitive control: understanding the effects and their relation to depression

9:55   **Marloes Henckens**
Department of Cognitive Neuroscience, Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, the Netherlands

Stressing the details: noradrenergic modulation of the neural mechanisms supporting memory detailedness

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

Session 4	11:30	**Modelling neural dynamics**
		Introduction: Behnam Ghazinouri

11:35   **Franziska Bröker**
Neuroscience Institute, Carnegie Mellon University, Pittsburgh, USA

Supervised and unsupervised learning in humans and machines

12:10   **Lunch break**

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April 24th - Afternoon

Session 4	**Modelling neural dynamics (continued)**

13:15   **Diana Burk**
Learning & Decision Making, National Institute of Mental Health (NIMH), Bethesda, USA

Using reinforcement models to capture behavioral features of threat learning in humans

13:50   **Lorenzo Fontolan**
Turing Centre for Living Systems (CENTURI), Aix-Marseille University, Marseille, France

Neural mechanisms of memory-guided behaviour

14:25	**Brainstorming Session (4)**

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