



CHARACTERIZATION AND RESCUE OF NEURONAL DYSFUNCTION

25th - 26th of April 2023

Veranstaltungszentrum, Ruhr University Bochum

Programme

April 25th **9:15** **Welcome** - opening of the conference
Carsten Theiß Speaker IGSN

Session 1 **9:25** **Interfaces of neurological and immunological diseases**

Introduction: Melissa Sgodzai

9:30 **Jörn Steinert**
Faculty of Medicine and Health Sciences, University of Nottingham, UK
Neuroinflammation and redox signalling as treatment targets in neurodegeneration

10:05 **Coffee break / Poster Session**

11:00 **Michael Heneka**
Luxembourg Centre for Systems Biomedicine, University of Luxembourg
Innate immune activation in Alzheimer's disease

11:35 **Brainstorming Session (1)**

12:30 **Lunch break**



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NEURONAL DYSFUNCTION**

April 25th - Afternoon

Session 2: 13:30 Mechanistic insights into psychiatric and affective disorders

Introduction: Wei Shao

13:35 Juan Pablo Lopez

Department of Neuroscience, Karolinska Institute Stockholm, Sweden

Ketamine exerts its sustained antidepressant effects via cell-type specific regulation of Kcnq2

14:10 Reinmar Hager

Division of Evolution & Genomic Sciences, University of Manchester, UK

Identification of neuro-epigenetic dysfunction that underpin cognitive deficits caused by exposure to maternal infection

14:45 Coffee break

15:00 Erika Comasco

Department of Women's and Children's Health, Uppsala University, Sweden

Neural signatures of mood switches

15:35 Brainstorming Session (2)

16:05 Individual meetings with RUB scientists



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April 26th - Morning

Session 3 9:25 Disorders and diseases of the motor system

Introduction: Amba Frese

9:30 Rohini Kuner
Medical Faculty, University of Heidelberg, Germany
Exploiting the motor cortex for pain relief

10:05 Friedhelm Hummel
Brain Mind Institute, Institute of Technology EPFL, Geneva, Switzerland
Towards precision medicine: patient-tailored treatment strategies to enhance motor recovery

10:40 Coffee break

10:55 Kathrin Doppler
Neurological Clinic, University Hospital Würzburg, Germany
Autoantibodies against proteins of the node of Ranvier as a cause of peripheral neuropathy

11:30 Poster Session / Brainstorming Session (3)

12:20 Lunch break



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April 26th - Afternoon

Session 4

13:20

**Neurorehabilitation and rescue of nervous system
dysfunction**

Introduction: Sumit Roy

13:25

Yasin Temel

Department of Neurosurgery, Maastricht University Medical Center, The Netherlands

**Deep brain stimulation to treat severe neurological and psychiatric
dysfunction**

14:00

Gesa Hartwigsen

Research Group Cognition and Plasticity, Max Planck Institute for Human Cognitive and Brain Sciences (MPI CBS) Leipzig, Germany

Functional plasticity and reorganization in the language network

14:35

Coffee break / **Brainstorming Session (4)**

15:25

George Prigatano

Barrow Neurological Institute, Phoenix, USA

**Neuroplasticity and the Unforgiving Brain: A Clinical Neuropsychological
Perspective**

16:00

FAREWELL – End of conference

