

*„We need all kinds of people doing science“*

May-Britt Moser  
Neuroscientist &  
Nobel Prize  
Laureate 2014



Foto: Robin Ritter

Hubbrücke in Magdeburg:  
*"On from here and ever forwards"*

## **Invasive Neurology & Neuroscience**

Symposium at the Leibniz Institute  
for Neurobiology in Magdeburg

Ebbinghaus lecture hall

November 12<sup>th</sup> 2024

## Program

9:00 Opening

9:05 Welcome

Stefan Remy  
Managing Director of the Leibniz  
Institute for Neurobiology

Hans-Jochen Heinze  
Chairman of the Executive Board  
& Medical Director of Magdeburg  
University Hospital

Stefanie Schreiber  
Acting Director of the University  
Department of Neurology

## Functional Neurosurgery

9:30 Lars Büntjen  
*Neuromodulation – Therapies for  
Patients & Opportunities for  
Neuroscience*

## Invasive Neurology & Sensorimotor Function

9:50 Catherine M. Sweeney-Reed  
*Engagement of the ventrointermediate  
nucleus of the thalamus in motor  
sequence learning*

10:10 Max-Philipp Stenner  
*Cerebello-Thalamo-Cortical Circuit  
Function for Human Learning*

10:30 Matthias Deliano  
*Beyond the Sweet Spot of Clinical  
Neuromodulation: From Local Excitation  
to Changes in the Brain-Body Network  
Dynamics*

10:50 Coffee break

## Invasive Neurology & Cognition

11:00 Friedhelm C. Schmitt  
*Invasive Neurology in Epileptology:  
From the Past to the Future*

11:20 Davide Ciliberti  
*Studying Human Cognition with Single-  
Neuron Recordings and Closed-Loop  
Electrical Stimulation*

11:40 Catherine M. Sweeney-Reed  
*An active role for the anterior nuclei of  
the thalamus in episodic memory  
formation*

12:00 Lunch break

12:30 Tino Zähle

*Entering the Second Decade of  
Invasive Electrophysiology in  
Magdeburg*

12:50 Stefan Dürschmid

*Impact of Human Brain State  
Changes on Cognitive Function*

13:10 Thomas Nickl-Jockschat

*The Role of Deep Brain  
Stimulation in Psychiatry*

13:30 Concluding remarks

## Organisation committee

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