5th Symposium of the TUM-Neuroimaging Center

21. 07. 2016, 17–19 h
Lecture Hall Pavillon

Contact
www.tumnic.mri.tum.de
markus.ploner@tum.de

Speakers
Prof. Pascal Fries
Ernst Strüngmann Institute (ESI) for Neuroscience in Cooperation with Max Planck Society, Frankfurt

Prof. Peter Henningsen
Dean, TUM School of Medicine

Josef Bäumi, MSc
Department of Neuroradiology, TUM

Viola Biberacher, MD
Department of Neurology, TUM

Moritz Nickel, MSc
Department of Neurology, TUM

Prof. Markus Ploner
Department of Neurology, TUM

Anja Ries, MSc
Department of Neuroradiology, TUM

Valentin Riedl, MD, PhD
Department of Neuroradiology, TUM

Thomas Stadhouders
Department of Nuclear Medicine, TUM
Dear colleagues,

we cordially invite you to the 5th Symposium of the TUM-Neuroimaging Center (TUM-NIC).

The symposium will provide an update on the progress of TUM-NIC and brief insights into recent research projects. We will highlight the broad variety of methods covered by clinical neuroimaging research and how these methods are used and integrated to further our understanding of neurological and psychiatric disorders. We are particularly pleased that the presentations will be complemented by a keynote lecture by Prof. Pascal Fries. He will discuss the functional significance of neuronal oscillations and their role for the understanding and treatment of neuropsychiatric disorders.

Best wishes

Markus Ploner
Mark Mühlau
Valentin Riedl
Christian Sorg
on behalf of the TUM-Neuroimaging Center

Program

17.00  Introduction
Welcome
Prof. Peter Henningsen
Dean, TUM School of Medicine
The TUM-Neuroimaging Center (TUM-NIC)
Prof. Markus Ploner
Department of Neurology, TUM

17.15  Keynote lecture
Rhythms for Cognition: Communication through Coherence
Prof. Pascal Fries
Ernst Strüngmann Institute (ESI) for Neuroscience in Cooperation with Max Planck Society, Frankfurt

18.00  Short presentations
Frequency spectrum of BOLD oscillations relates to depressive symptoms
Anja Ries, MSc

Neurocognitive networks in dementia disorders assessed with simultaneous PET/fMRI
Thomas Stadhouders

Thalamo-cortical connectivity predicts impaired cognition in preterm born adults
Josef Bäuml, MSc

Monitoring the course of multiple sclerosis: stability of structural MRI
Viola Biberacher, MD

Metabolic connectivity mapping reveals directional signaling in the human brain
Valentin Riedl, MD, PhD

Brain oscillations differentially encode nociception and pain
Moritz Nickel, MSc

19.00  Reception