

## 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 Bäuml, 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 Stadholders**  
*Department of Nuclear Medicine, TUM*



Klinikum rechts der Isar  
Technische Universität München



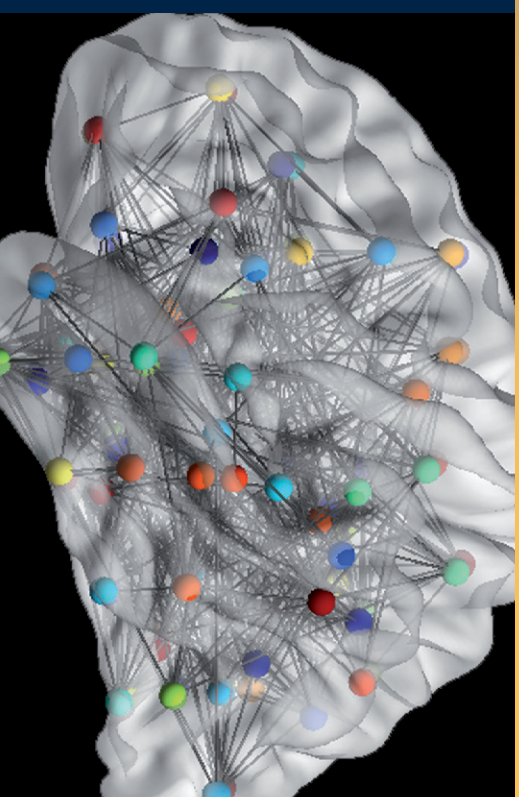
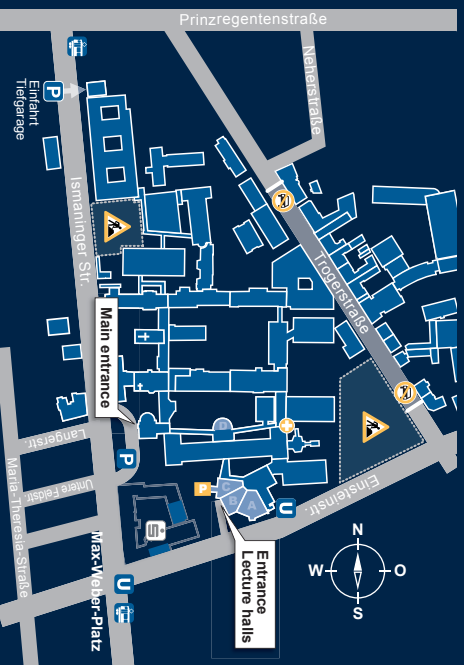
## 5th Symposium of the TUM-Neuroimaging Center

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

TUM-Neuroimaging Center

## Contact

[www.tumnic.mri.tum.de](http://www.tumnic.mri.tum.de)  
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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

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### **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*

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### **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*

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### **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 Stadholders*

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, M.D*

Metabolic connectivity mapping reveals  
directional signaling in the human brain

*Valentin Riedl, MD, PhD*

Brain oscillations differentially encode  
nociception and pain

*Moritz Nickel, MSc*

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### **19.00 Reception**

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