

## Speakers

Prof. Ed Bullmore  
*Department of Psychiatry and Behavioural and  
Clinical Neuroscience Institute, University of Cambridge*

Prof. Peter Henningsen  
*Dean of the Medical Faculty, TUM*

Dr. Elisabeth May  
*Department of Neurology, TUM*

Prof. Mark Mühlau  
*Department of Neurology, TUM  
Munich Cluster for Systems Neurology*

PD Dr. Markus Ploner  
*Department of Neurology, TUM*

Dipl.-Psych. Tim Reelß  
*Department of Neuroradiology, TUM  
Graduate School of Systemic Neurosciences, LMU*

Dipl.-Bioinf. Lukas Utz  
*Department of Neuroradiology, TUM  
Institute for Advanced Study, TUM*

Dr. Afra Wohlschläger  
*Department of Neuroradiology, TUM*

Dr. Igor Yakushev  
*Department of Nuclear Medicine, TUM*



Klinikum rechts der Isar  
Technische Universität München



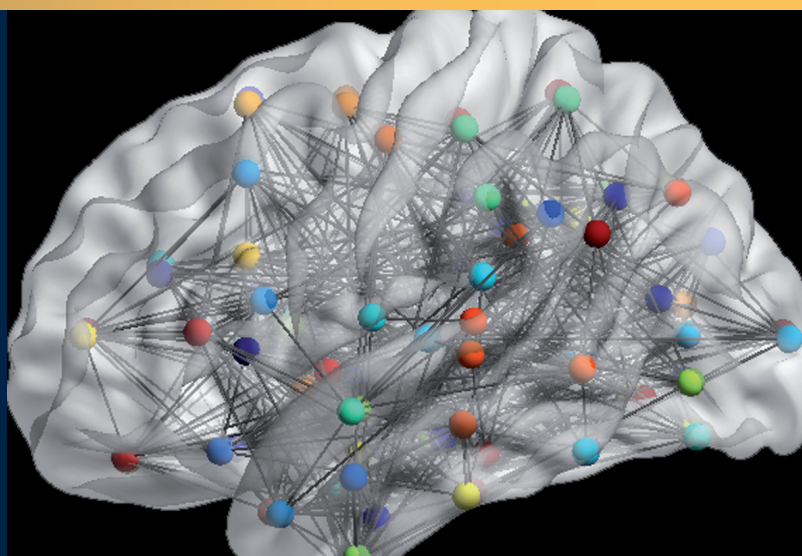
## 3rd Symposium of the TUM-Neuroimaging Center

17.07.2014, 17–19 h  
Pavillon, Hörsaalgebäude

TUM-Neuroimaging Center

## Contact

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Dear colleagues,

we cordially invite you to the 3rd 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. TUM-NIC is an initiative of scientists from different disciplines and backgrounds to promote neuroimaging research at the TUM. They created TUM-NIC as a platform for the exchange of ideas, knowledge, skills and plans for the future. TUM-NIC facilitates collaborations across department and faculty boundaries, furthers education in neuroimaging techniques and enhances the impact and visibility of neuroimaging research at the TUM.

This year's symposium will highlight the broad variety of methods covered by clinical neuroimaging research and how these methods are used 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. Ed Bullmore who will discuss the relevance of brain networks for the understanding of neuropsychiatric diseases.

Best wishes

*Markus Ploner*

*Mark Mühlau*

*Christian Sorg*

*on behalf of the TUM-Neuroimaging Center*

## Program

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### 17.00 Introduction

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#### Welcome

*Prof. Peter Henningsen*

*Dean of the Medical Faculty, TUM*

#### The TUM-Neuroimaging Center (TUM-NIC)

*PD Dr. Markus Ploner*

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### 17.15 Keynote lecture

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#### Economical brain networks and brain disorders

*Prof. Ed Bullmore*

*Department of Psychiatry and Behavioural and Clinical Neuroscience Institute, University of Cambridge*

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### 18.00 Short presentations

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#### Impact of electroconvulsive therapy on functional connectivity dynamics in major depressive disorder

*Dr. Afra Wohlschläger*

#### Genetics and structural MRI in multiple sclerosis

*Prof. Mark Mühlau*

#### Exploring metabolic connectivity of the brain with PET

*Dr. Igor Yakushev*

#### Neurophysiological encoding of ongoing pain

*Dr. Elisabeth May*

#### Energetic costs of brain functional connectivity

*Dipl.-Bioinf. Lukas Utz*

#### Neural correlates of risk aversion in obsessive-compulsive disorder

*Dipl.-Psych. Tim Reeß*

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### 19.00 Reception

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