3rd Symposium of the TUM-Neuroimaging Center

17.07.2014, 17–19 h
Pavillon, Hörsaalgebäude

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 Reeß  
*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*

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

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**Program**

17.00 **Introduction**

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

The TUM-Neuroimaging Center (TUM-NIC)
PD Dr. Markus Ploner

17.15 **Keynote lecture**

Economical brain networks and brain disorders
Prof. Ed Bullmore
Department of Psychiatry and Behavioural and Clinical Neuroscience Institute, University of Cambridge

18.00 **Short presentations**

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

19.00 **Reception**