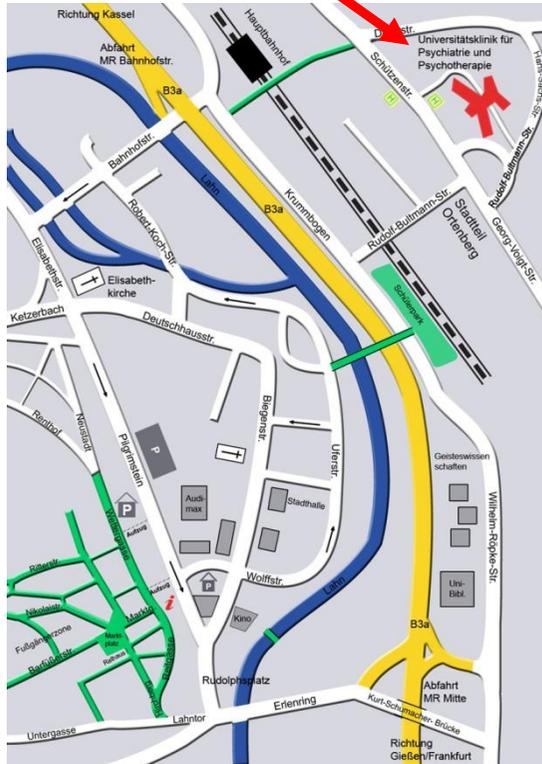


Location:

Zentrum für Psychische Gesundheit
Klinik für Psychiatrie und Psychotherapie
Rudolf-Bultmann-Straße 8
35039 Marburg



 Pedestrian Area  Main road B3

For room reservation contact
Marburg Tourismus und Marketing GmbH,
Pilgrimstein 26, 35037 Marburg,
Tel.: 0 64 21 / 99 12-0, Fax: 99 12-12
Email: mtm@marburg.de

Organisation:

Dr. J. Sommer, Prof. Dr. A. Jansen
Section of Brainimaging
Department of Psychiatry
Philipps-University Marburg
Rudolf-Bultmann-Straße 8, 35039 Marburg

Prof. Dr. R. Stark, Dr. B. Walter
BION, Department of Psychology
Justus-Liebig University Gießen
Otto-Behagel-Straße 10F, 35394 Gießen

For more information contact:

Ms. Ina Hübener
Email: brainimaging@med.uni-marburg.de
www.online.uni-marburg.de/quamri/realtime

Registration:

Symposium (Sunday, Sept. 13th):
Participation is free,
Email with subject 'symposium' requested:
brainimaging@med.uni-marburg.de

Workshop: limited seats.
Registration fee 200€
Registration via Email (subject 'workshop')
brainimaging@med.uni-marburg.de

Die Zertifizierung der Veranstaltung wurde bei der
Landesärztekammer Hessen beantragt.

Philipps



Universität
Marburg

JUSTUS-LIEBIG-



Symposium and Workshop

Biofeedback and Realtime
Imaging in Brain Research

September 13th – 15th 2015

Section of Brainimaging
Department of Psychiatry and Psychotherapy
Philipps-University Marburg

Program

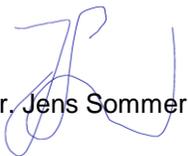
Aims and Scope of the Symposium

Neurofeedback is a technique that provides moment-to-moment information about the current level of brain activity. Such information can be used to learn voluntary self-regulation of brain activity. Until recently, neurofeedback was mainly used to train self-regulation of autonomic bodily functions or of specific electroencephalography (EEG) components, for instance to communicate with severely paralyzed patients, to suppress epileptic activity, or to treat symptoms of attention deficit hyperactivity disorder. Recent technological advances in the field of functional magnetic resonance imaging (fMRI) have now made it possible to analyze the data in real-time and thus also to provide neurofeedback based on real-time fMRI (rtfMRI), offering the advantage of targeting spatially localized activity in the range of millimeters across the entire brain.

On the first day of the symposium, renowned experts will give a comprehensive overview on recent developments in biofeedback techniques, with particular emphasis on fMRI and functional near-infrared spectroscopy (fNIRS). On the second and third day, we have organized a workshop in which newly developed realtime imaging tools will be introduced. The workshop will include methodological and practical lectures on several feedback strategies as well as practical hands-on sessions.

We are pleased to welcome you in Marburg.

Sincerely Yours



Dr. Jens Sommer

Sunday, September 13th 2015

Scientific Program

13:00 - 13:30 **Welcome**

Prof. Dr. Andreas Jansen
Prof. Dr. Tilo Kircher

13:30 - 17:30 **Talks**

17:30 - 18:00 **Discussion**

Confirmed speakers:

Yury Koush, EPFL and University of Geneva,
Switzerland

Joao R. Sato, Universidade Federal do ABC, Santo
André / Sao Paulo, Brasil

Ralf Veit, Institute of Medical Psychology and
Behavioral Neurobiology, Tuebingen, Germany

Steffen Volz, MRI Physics, Wellcome Trust Centre for
Neuroimaging, London, United Kingdom

Monday & Tuesday
September 14th/15th 2015

Workshop: Realtime Imaging Tools

Jens Sommer, Philipps-University Marburg, Germany
Introduction to Realtime Imaging

Joao R. Sato, Universidade Federal do ABC, Santo
André / Sao Paulo, Brasil
FRIEND, Real-time fMRI pattern decoding and
neurofeedback

Yury Koush, EPFL and University of Geneva,
Switzerland
Matlab based Feedback Toolbox

Jens Sommer, Philipps-University Marburg, Germany
The Plugin Interface of Turbo Brainvoyager

Lamija Pašalić / Christoph Schmitz, NIRX, Berlin,
Germany
Functional NIRS : From experimental planning to real-
time visualization.



Brainimaging Marburg



Bender Institute
of Neuroimaging
Gießen