

Scientific Program

Member initiated scientific sessions and individual contributions provide an overview about current topics in alpine brain mapping research. An advanced course in clinical fMRI will be offered on the first day.

OHBM Alpine Chapter (www.humanbrainmapping.org, www.oegfmrt.org)

Registration / Contact

For registration or submission of individual presentations please contact the local congress executive Dr. Ruth Steiger (office@oegfmrt.org)

Submission Deadline will be September, 1st 2018. Online congress registration until September 1st, 2018. On-site Registration will be possible. Participation in the course and symposium is free.

Austrian Evening Event at Villa Blanka Innsbruck: 50 Euro.

Membership applications: www.oegfmrt.org and www.humanbrainmapping.org.

Local Organisation

Department of Neuroradiology: Prof. Dr. Elke R Gizewski, Dr. Ruth Steiger, Dr. Christian Siedentopf, Sandra Wackerle (office@oegfmrt.org)

Venue

Auditorium 2, Frauenkopfklinik, Anichstr. 35, A-6020 Innsbruck

Faculty OHBM Alpine Chapter (from July 2018)

Basel: Christoph Stippich (Chair)

Graz: Anja Ischebeck (Chair Elect)

Vienna: Roland Beisteiner (Chair Past)

Graz: Christian Enzinger (Secretary)

Switzerland: NN (Secretary Elect)

Geneva: Patrik Vuilleumier (Secretary Past)

Bern: Roland Wiest (Treasurer)

Innsbruck: Elke R. Gizewski (Treasurer Elect)

Salzburg: Stefan Golazewski, Martin Kronbichler (Treasurer Past)



Organisation for
Human Brain Mapping

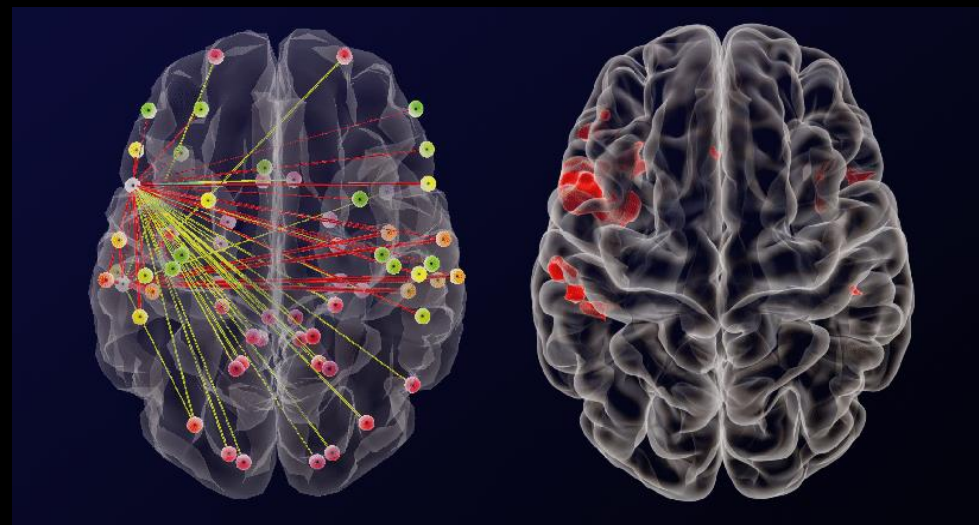


Alpine Chapter



Austrian Society for
fMRI

4th ALPINE CHAPTER SYMPOSIUM + Clinical fMRI Course



November 9th & 10th, 2018

University Hospital Innsbruck

4th OHBM Alpine Chapter Meeting 9th/10th November 2018 - Medical University Innsbruck

09.11.2018 **Advanced course in clinical fMRI**

- 08:30** **Welcome** (*Elke R. Gizewski, Innsbruck*)
- 08:45 - 9:30** **Advanced analyses** (*Chair: Anja Ischebeck, Graz*)
- 08:45 – 09:00** GLM (new software features)
(*Rainer Goebel / Michael Lühns, Maastricht*)
- 09:00 – 09:15** Resting State fMRI: state of the art and clinical
examples (*Noora Tuovinen, Innsbruck*)
- 09:15 – 09:30** Resting State fMRI: new developments
(*Bharat Biswal, New Jersey*)
- 9:30 – 10:15** **Advanced Clinical applications** (*Chair: Wolfgang
Staffen, Salzburg*)
- 09:30 – 09:45** Neuronal Current Imaging (*Roland Wiest, Bern*)
- 09:45 – 10:00** Paradigms + Pitfalls (*Christoph Stippich, Zürich*)
- 10:00 – 10:15** Clinical benefits of Ultrahigh Field
(*Roland Beisteiner, Vienna*)
- 10:15 – 10:45** **Coffee Break**
- 10:45 – 11:30** **Examples and discussions** (*Chair: Elke Gizewski,
Innsbruck*)
- 10:45 – 11:00** Typical procedures (scanning, processing)
(*Ruth Steiger, Innsbruck*)
- 11:00 – 11:15** Examples and Interpretation
(*Christian Siedentopf, Innsbruck*)
- 11:15 – 11:30** Fixation-based event-related fMRI analysis:
Applications in visual search (*Anja Ischebeck, Graz*)
- 11:30 – 12:30** **Certificate & Lunch**

12:30

Start Alpine Chapter Symposium

Welcome (*Christoph Stippich, Zürich*)

12:45 – 14:00

Neurodegenerative Diseases (*Chair: Christoph Scherfler,
Innsbruck*)

12:45 - 13:05

Diagnostic potential of automated volumetric magnetic
resonance imaging analysis in the differentiation of
neurodegenerative parkinsonian syndromes
(*Jan Kassubek, Ulm*)

13:05 – 13:25

The potential of diffusion tensor imaging in the
differentiation of neurodegenerative parkinsonian
syndromes (*Florian Krismer, Innsbruck*)

13:25 – 13:45

Does the identification of morphometric signatures
contribute to the diagnosis of neurodegenerative
dementias? (*Christoph Scherfler, Innsbruck*)

13:45 – 14:00

Discussion

14:00 – 15:15

Multiple Sclerosis (*Chair: Daniela Pinter, Graz*)

14:00 – 14:20

Resting State fMRI in MS. (*Daniela Pinter, Graz*)

14:20 – 14:40

Explaining the heterogeneity of functional connectivity
findings in MS (*Menno Schoonheim, Amsterdam*)

14:40 – 15:00

Insights from MRI into fatigue in MS

15:00 – 15:15

(*Paolo Preziosa, Milan*)

Discussion

15:15 – 15:45

Coffee Break

15:45 – 16:45

Stroke (*Chair: Christoph Stippich, Zürich*)

15:45 – 16:05

Imaging acute stroke (*Christoph Stippich, Zürich*)

16:05 – 16:25

Advanced MRI in stroke imaging (*Roland Wiest, Bern*)

16:25 – 16:45

Discussion

16:45 – 18:00 **Machine Learning** (Chair: Roland Wiest, Bern)

16:45 – 17:05 Interpretability of Machine Learning Models in Neuroimaging. (Raphael Meier, Bern)

17:05 – 17:25 Segmentation with error bounds: applications to longitudinal volumetry in multiple sclerosis. (Richard McKinley, Bern)

17:25 - 17:45 Subtype classification of temporal lobe epilepsies by surface based morphometric analysis. (Christian Rummel, Bern)

17:45 – 18:00 Discussion

19:00 **Dinner**

10.11.2018

09:00 – 10:15 **Chapter communications Cognition** (Chairs: Martin Kronbichler, Salzburg/ Mauricio Martins, Vienna, Berlin, Leipzig)

09:00 – 09:15 Function and connectivity in the temporo-parietal junction area (Matthias Schurz, Salzburg, Oxford)

09:15 – 09:30 What's in a hub? Identity in Language, Maths, and Face Recognition (Josef Perner, Salzburg)

09:30 – 09:45 Sex hormones and hubs - examples from language, math and face processing (Belinda Pletzer, Salzburg)

09:45 – 10:00 Frequency modulation of neural oscillations according to visual task demands (Andreas Wutz, Salzburg, MIT Cambridge)

10:00 – 10:15 Fractal music elucidates neural mechanisms supporting the generation and discrimination of tonal hierarchies (Mauricio Martins, Vienna, Berlin, Leipzig)

10:15 – 11:00 **Keynote Lecture**
Vincent P. Clark, "New developments in brain stimulation and imaging – clinical potential"
 Director: Psychology Clinical Neuroscience Center, University of New Mexico

11:00 – 11:30 **Coffee Break / Poster**

11:30 – 12:50 **Chapter communications: Methods** (Chairs: Martin Kronbichler, Salzburg, Raimund Kleiser, Linz)

11:30 – 11:50 Multimodal Segmentation (Roberto Viviani, Innsbruck)

11:50 – 12:05 Real time fMRI using Turbo Brain Voyager (Raimund. Kleiser, Linz)

12:05 – 12:20 High resolution structural and functional MRI at 3T, 7T and 9.4T: a cognitive neuroscientist's experience (Natalia Zaretskaya, Graz)

12:20 – 12:35 A multimodal approach to characterize finger movement patterns in an active exploration task using a data glove, fMRI and graph theory: results of healthy subjects serving as a control group for the CISS (Cortical Ischaemic Stroke and Serotonin) study. (Werner Krammer, St. Gallen)

12:35 – 12:50 Transcranial magnetic stimulation over the right temporo-parietal junction influences the sense of agency in healthy subjects. (Giuseppe Angelo Zito, Bern)

12:50 – 13:25 **Lunch Break / Poster**

- 13:25 – 14:15** **Chapter communications: Clinical Methods** (Chairs: Stefan Golaszewski, Salzburg/ Rupert Lanzenberger, Vienna)
- 13:25 – 13:45** Multimodal Neuroimaging in Neuropsychopharmacology From fMRI to PET and transcriptomics (Rupert Lanzenberger, Vienna)
- 13:45 – 14:00** Segmentation of Hippocampal Subfields and Nuclei of the Amygdala before and after SSRI treatment in Patients with Major Depressive Disorder (Thomas Vanicek, Vienna)
- 14:00 – 14:15** Vegetative state (Stefan Golaszewski, Salzburg)
-
- 14.15 – 15:25** **Chapter communications: Mixed** (Chairs: Bogdan Draganski, Lausanne/ Eva Matt, Vienna)
- 14:15 – 14:30** Improving sensitivity, specificity, and reproducibility of individual brainstem activation (Eva Matt, Vienna)
- 14:30 – 14:45** Large-scale studies of brain tissue properties in ageing (Bogdan Draganski, Lausanne)
- 14:45 – 15:00** Psychological Pain (Karin Labek, Innsbruck)
- 15:00 – 15:15** Mapping of GABA and glutamate in psychiatric diseases at 3T (Benjamin Spurny, Vienna)
-
- 15:15 – 15:30** **Farewell and Outlook 5th OHBM Chapter**

Sponsors:

