

## 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](http://www.humanbrainmapping.org), [www.oegfmrt.org](http://www.oegfmrt.org))

## Registration / Contact

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

**Submission Deadline will be September, 1<sup>st</sup> 2018. Online congress registration until September 1<sup>st</sup>, 2018. On-site Registration will be possible. Participation in the course and symposium are free.**

**Austrian Evening Event at Villa Blanka Innsbruck: 50 Euro.**

**Membership applications:** [www.oegfmrt.org](http://www.oegfmrt.org) and [www.humanbrainmapping.org](http://www.humanbrainmapping.org).

## Local Organisation

Department of Neuroradiology: Prof. Dr. Elke R Gizewski, Dr. Ruth Steiger, Dr. Christian Siedentopf, Sandra Wackerle ([office@oegfmrt.org](mailto: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 Golaszewski, Martin Kronbichler (Treasurer Past)



Organisation for  
Human Brain Mapping

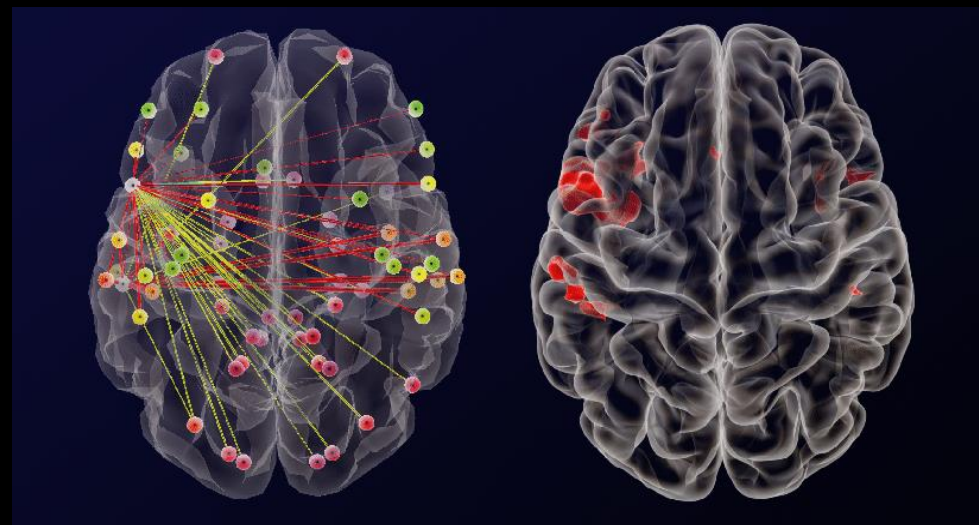


Alpine Chapter



Austrian Society for  
fMRI

## 4th ALPINE CHAPTER SYMPOSIUM + Clinical fMRI Course



November 9th & 10th, 2018

University Hospital Innsbruck

# 4<sup>th</sup> OHBM Alpine Chapter Meeting 9<sup>th</sup>/10<sup>th</sup> 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 Kassubeck, 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 / Poster**

**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**

- 13:25 – 14:25**      **Chapter communications: Clinical Methods** (Chairs: *Stefan Golaszewski, Salzburg/ Rupert Lanzenberger, Vienna*)
- 13:25 – 13:40**      Multimodal Neuroimaging in Neuropsychopharmacology  
From fMRI to PET and transcriptomics (*Rupert Lanzenberger, Vienna*)
- 13:40 – 13:55**      Segmentation of Hippocampal Subfields and Nuclei of  
the Amygdala before and after SSRI treatment in  
Patients with Major Depressive Disorder (*Thomas Vanicek, Vienna*)
- 13:55 – 14:10**      fMRI and stroke: results to Mesh Glove examinations  
(*Kerstin Schwenker, Salzburg*)
- 14:10 – 14:25**      Vegetative state (*Stefan Golaszewski, Salzburg*)
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- 14.25 – 15:25**      **Chapter communications: Mixed** (Chairs: *Bogdan Draganski, Lausanne/ Eva Matt, Vienna*)
- 14:25 – 14:40**      Improving sensitivity, specificity, and reproducibility of  
individual brainstem activation (*Eva Matt, Vienna*)
- 14:40 – 14:55**      Large-scale studies of brain tissue properties in ageing  
(*Bogdan Draganski, Lausanne*)
- 14:55 – 15:10**      Psychological Pain (*Karin Labek, Innsbruck*)
- 15:10 – 15:25**      Mapping of GABA and glutamate in psychiatric diseases  
at 3T (*Benjamin Spurny, Vienna*)
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- 15:25 – 15:40**      **Farewell and Outlook 5th OHBM Chapter**

**Sponsors:**

