



ISONS 2007

International Symposium on Cognitive Neurosurgery

17-20 March 2007, Castle of Weitenburg, Germany

POSTERS

General poster session will take place on Monday, 19 March 2007, 13.45-15.15. Posters can also be presented and discussed during coffee breaks on Sunday and Monday (see poster sessions below).

Hanging of posters on Sunday morning and removal on Tuesday before lunch.

Poster size is DIN A0 (118.9 cm height x 84.1 cm width). The poster boards will be marked to indicate which session the poster is in.

The best poster will be awarded.

Poster Session A – LANGUAGE

A01 Peter Grummich, Christopher Nimsky, Michael Buchfelder, Oliver Ganslandt
Preoperative localization of language and verbal memory activity with MEG and fMRI

A02 Vincent Lubrano, Jean-François Démonet, Franck-Emmanuel Roux
Expressive language mapping of the left dominant frontal cortex

A03 David W. Perry and Mitchel S. Berger
Cortical stimulation mapping of language cortex using sound naming:
Comparison to visual naming

A04 Marcus A. Acioly, Christoph Zimmermann, Michael Erb, Frank Kunath, Marcos Tatagiba, Wolfgang Grodd, Alireza Gharabaghi
Dissociated language functions: A matter of atypical language lateralization or cerebral plasticity?

A05 Volker Ressel, Marko Wilke, Karen Lidzba, Werner Lutzenberger, Inge Krägeloh-Mann
Increases in language lateralization in normal children as observed using magnetoencephalography

A06 Christoph Zimmermann, Michael Erb, Frank Kunath, Ralf Saur, Marcos Tatagiba, Wolfgang Grodd, Alireza Gharabaghi
Differentiation of frontal lobe language function

A07 Christoph Zimmermann, Michael Erb, Ralf Saur, Marcos Tatagiba, Wolfgang Grodd, Alireza Gharabaghi
Implementation of an fMRI language test (auditory naming task) for the temporal lobe

A08 Christoph Zimmermann, Michael Erb, Ralf Saur, Marcos Tatagiba, Wolfgang Grodd, Alireza Gharabaghi
Comparison of fMRI tasks for visual and auditory naming

A09 Christian Kell

Spontaneous neuroplasticity in the recovery from stuttering

A10 Bernd Will, Annette Wacker, Martin Holder, Marcos Tatagiba, Alireza Gharabaghi

Diagnosis of aphasic disturbances

A11 Bernd Will, Annette Wacker, Martin Holder, Marcos Tatagiba, Alireza Gharabaghi

Differentiation of right- and left-sided brain lesion by the AAT

Poster Session B - BRAIN CONNECTIVITY

B01 Pervin Sevda Bikmaz, Veysel Kerem Bikmaz, Mahmut Gazi Yasargil,

Dianne Yasargil

Fiber dissection technique in learning brain anatomy and its connections

B02 Philippe Riguard, Kevin Buffenoir, Nemat Jaafari, Jean-Luc Houeto,

Jean-Pierre Richer, Benoît Bataille

The accumbo-frontal tract: A new fasciculus? A micro anatomical study using the Klingler white matter fiber dissection

B03 Frank Kunath, Ralf Saur, Christoph Zimmermann, Michael Erb, Marcos Tatagiba, Wolfgang Grodd, Alireza Gharabaghi

Combined DTI and fMRI for visualizing functional connectivity in the human brain

B04 Lara Rzesnitzek, Marcos Tatagiba, Alireza Gharabaghi

From localisationist to connectivist theory: Lessons from functional neurosurgery

Poster Session C - INTRAOPERATIVE ASSESSMENT

C01 Barbara Santini

Selecting patient for awake surgery: A preliminary report from a psychological perspective

C02 Pieter Kubben and Geert H. Spincemaille

Combining functional neuronavigation and low field strength intraoperative MRI

C03 Daniel Doischer, Karl-Heinz Decker, Marina Liebsch, Marcos Tatagiba,

Alireza Gharabaghi

Intraoperative communication pathways during cognitive neurosurgery

C04 Marcus A. Acioly, Frank Kunath, Ralf Saur, Christoph Zimmermann,

Jessica Jesser, Michael Erb, Marcos Tatagiba, Wolfgang Grodd,

Alireza Gharabaghi

Intraoperative mapping of working memory

Poster Session D - SOCIAL COGNITION AND AFFECT

D01 Michele Guerreschi and Marina Pavlova

Social attribution in Heider-and-Simmel-like animations: Implications for lesional and neurosurgical patients

D02 Bijoy Atique, Alireza Gharabaghi, Michael Erb, Martin Bleicher, Jessica Jesser, Marcos Tatagiba, Wolfgang Grodd, Silke Anders

Implementing social cognition paradigms to neurosurgical planning

D03 Marcus A. Acioly, Carlos H. Carvalho, Martin U. Schuhmann, Alireza Gharabaghi

The parahippocampal gyrus: A multimodal association area in psychosis

D04 Charalampos Iliadis , Greta Wozniak, Stavros Stamatiou, Nikolaos Chautouras, Maria Bakopoulou, Evangelia Kotrotsiou, Alexandra Kunz, Charalampos Gatos, Vasilios Slatinopoulos

Personality and psychoses after head injury: Serum serotonin levels examination

D05 Lara Rzesnitzek, Marcos Tatagiba, Alireza Gharabaghi

Multicircuit models and psychiatric disorders

D06 Cordula Brand, Lara Huber, Alireza Gharabaghi

Identity versus personality - Implications for neurosurgery

D07 Miriam Brodbeck, Marcos Tatagiba, Alireza Gharabaghi

The impact of peri-operative psychological state on quality of life after craniotomy

D08 Simone Goebel, Hans Streng, Hubertus M. Mehdorn

Traumatic stress symptoms after neurosurgical treatment of intracranial tumors

Poster Session E - VISUAL PERCEPTION AND WORKING MEMORY

E01 Simone Goebel, Christian D. Wiesner, Stephan Wolff, Hartwig Siebner, Bernd Leplow, Hubertus M. Mehdorn

The use of a chunking-strategy to facilitate visuo-spatial working memory: Integration of functional neuroimaging and clinical neuropsychology

E02 Jessica Jesser, Michael Erb, Bijoy Atique, Marcos Tatagiba, Wolfgang Grodd, Alireza Gharabaghi

Mapping cognitive control in neurosurgical patients

E03 Kirsten Schmieder, Pasquale Calabrese, Ioannis Pechlivanis, Martin Engelhardt, Albrecht Harders

Neuropsychological findings in patients with olfactory groove meningiomas

E04 Axel Thielscher, Alexandra Reichenbach, Kamil Ugurbil, Kamil Uludag

Congruence between fMRI activation pattern and the maximal TMS effect during a simple visual discrimination task

E05 Frank Kunath, Alireza Gharabaghi, Michael Erb, Marcos Tatagiba, Wolfgang Grodd, Hans-Otto Karnath

Perisylvian network of the human right hemisphere involved in spatial orienting

E06 Bogdan Iliescu, Ion Poeata, Valentin Dragoi

A method for improving visual perception and its implications in neurological visually impaired patients

Poster Session F - CEREBELLUM AND THALAMUS

F01 Ion Poeata, Bogdan Iliescu, Marcel Ivanov

Postoperative mutism following cerebellar astrocytoma: Case presentation

F02 Arseny A. Sokolov, Alireza Gharabaghi, Marina Pavlova, Marcos Tatagiba

Improvement in visual processing of human walking after left cerebellar lesion removal

F03 Marcus A. Acioly, Jonny Kusic, Carlos H. Carvalho, Gottfried M. Barth, Bernd E. Will, Marcos Tatagiba, Gunther Klosinski, Wolfgang Grodd, Alireza Gharabaghi

The cerebellum and schizophrenia: A neurosurgical point of view

F04 Lars Wojtecki, Lars Timmermann, Silke Jörgens, Saskia Elben, Stefan Groiss, Markus Südmeyer, Martin Ploner, Volker Sturm, Michael Niedeggen, Alfons Schnitzler

Low frequency stimulation of the subthalamic nucleus improves verbal fluency and impairs time estimation

F05 Jyrki P. Mäkelä, Samu Taulu, Antti Ahonen, Juha Pohjola, Eero Pekkonen

Effects of deep brain stimulation on evoked magnetic fields in Parkinsonian patients

F06 Luca F. Ticini, Monika Fruhmann Berger, Leif Johannsen, Doris Broetz, Thomas Nägele, Uwe Klose, Hans-Otto Karnath

The role of posterior thalamus for our control of upright body posture

F07 Uwe Klose, Kamil Gorczewski, Michael Erb, Wolfgang Grodd

Thalamus segmentation by track analysis of MR diffusion tensor fibers

F08 Hakan Seckin, Erhan Nalcaci, Senay Olmez, Cem Atbasoglu

The alterations of cognitive functions in patients with cerebellar lesions

Poster Session G - COGNITIVE IMPAIRMENTS

G01 Vadim Biloshytskyy

The influence of gene therapy on morphologic and cognitive impairment after traumatic brain injury in rats

G02 Luciano Daliento, Biancarosa Volpe, Daniela Mapelli

Cognitive abnormalities in congenital heart diseases

G03 Janez Ravnik

Neuropsychological, neurophysiological and neuroimaging methods for evaluation of cognitive dysfunction after aneurysmal subarachnoid hemorrhage

G04 P. Bozzetto-Ambrosi, I.M.A.L. Carvalheira, A.C. Vieira, V.A. Santos, J. Lucena, L. Leitão, G. Andrade, H. Azevedo-Filho

Evaluation of cognitive consequences of aneurysmal subarachnoid hemorrhage

Poster Session H - EXECUTIVE FUNCTIONS

H01 Antje Büttner

Therapy control study in neurological rehabilitation: EMG-triggered movement therapy (EMT)

H02 Henning Boecker, Jakob Jankowski, Philip Ditter, Lukas Scheef

Proposal of a supplementary motor area (SMA) functional localizer task suitable for single subject fMRI analyses

H03 Robert Bartoš, Robert Jech, Josef Vymazal, Aleš Hejčí, Martin Sameš

The validity of fMRI primary motor area location (ECS comparative study)

H04 Christian Söhnngenn, Michael Erb, Ralf Saur, Christoph Reising, Marcos Tatagiba, Wolfgang Grodd, Alireza Gharabaghi

Cortical reorganisation after hypoglossal-facial nerve anastomosis:
A model for functional plasticity

Poster Session I - ETHICS AND PHILOSOPHY

I01 Jens Clausen and Alireza Gharabaghi

Neuroethics and awake surgery: Anthropological and ethical implications of interactive brain surgery

I02 Lara Huber and Alireza Gharabaghi

Neurosurgery getting “cognitive”: The explanatory reach of knowledge production within the neurosciences