Speakers

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Prof. Xiao-Qi Ding PhD MD,
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Steffi Dreha-Kulaczewski MD
Dep. of Pediatrics and Pediatric Neurology, University
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Adriane Gröger PhD
Dep. of Neurology, University Hospital Mainz, Germany

Prof. Elke Hattingen MD
Neuroradiology, Universitätsklinik Bonn, Germany

Prof. Vasilis Katsaros MD
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Prof. Uwe Klose PhD
Dep. of Diagnostic and Interventional Neuroradiology,
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Urspeter Knecht MD
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Anett Werner PhD
Dep. Neuroradiology, University Hospital Dresden

Registration

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Workshop fee: 100 €

Venue

University Hospital Tübingen
Building 420 - Level B4
Lecture Hall No. 221

Proton MR Spectroscopy
in Neuroradiological Diagnostics

Workshop on the impact of proton spectroscopy in
neuroradiological MR examinations.

Tübingen, February 21th, 2015
Introduction

Dear Colleagues,

MR proton spectroscopy is a long known method in radiological examinations, which provides valuable additional diagnostic information. Nevertheless it is not used in many radiological sites due to a lack of experience with the measurement sequences and the evaluation technique.

In our workshop, several specialists of spectroscopic measurements in neuroradiological applications will report on their experiences and the still existing difficulties with this technique.

The workshop focuses on the most common applications. In addition, there will be several reports on current research projects using proton spectroscopy in neuroradiological topics.

We are pleased to invite you to our MR workshop in the University Hospital of Tübingen.

Prof. Dr. U. Klose    Prof. Dr. U. Ernemann

Program

9.00  U. Ernemann, Tübingen: Welcome address

9:05 Methods:
U. Klose, Tübingen: Sequences in routine proton MRS measurements

9:15 Proton spectroscopy of tumors I
E. Hattingen, Bonn, Germany
W. Katsaros, Athens, Greece
A. Bobek-Billewicz, Gliwice, Poland
A. Werner, Dresden, Germany

10:15 Coffee break

10:45 Proton spectroscopy of tumors II
U. Knecht, Bern, Switzerland
I. Varaki, Athens, Greece
S. Bisdas, Tübingen, Germany

11:30 Proton spectroscopy in pediatric diseases
S. Dreha-Kulaczewski, Göttingen, Germany
A. Werner, Dresden, Germany
E. Rahimian, Tehran, Iran
B. Bender, Tübingen, Germany

Program

12:30 Lunch break

13:30 Recent research results in clinical proton spectroscopy
A. Gröger, Mainz: Optimization of LCModel basis data sets for special clinical applications
R. Schäfer, Tübingen: Separation of Lactate and Lipids at 135 ms
X. Ding, Hannover: Influence of diet intervention on neurometabolism
I. Mader, Freiburg: The Freiburg radiogenomics project: genetic and imaging variability of glioblastomas
U. Knecht, Bern: Differential diagnosis of metastasis versus high grade gliomas using MRS.
A. Werner, Dresden: Quantitation of GABA and Detection of 2HG in IDH-mutations in glioma

15:30 End of the workshop