Dear Colleagues,

with this course, we offer an introduction into the interesting field of MR proton spectroscopy for clinical applications for physicians and technologists who are experienced in MR tomography applications, but not in spectroscopy. After a successful course was performed in German last year, we invite English-speaking MR specialists to this international course.

Single voxel proton spectroscopy and spectroscopic imaging provide valuable additional information for clinical diagnostics in many oncological, pediatric and metabolic brain disorders. At most clinical MR scanners, proton spectroscopy can be performed without any additional hardware.

Our seminar starts with basic theory and hints for the practical performance of spectroscopic measurements. All speakers have several years of experience with this technique. Some parts of talks will be accompanied by online demonstrations at our scanners by remote measurements.

In a further part of the seminar, an overview over clinical applications in neuroradiological and neuropediatric diagnostics will be given.

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

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

Evaluation of MR spectroscopic data
11.45 U. Klose:
Postprocessing of MR spectra
(Description of usual postprocessing steps, how to perform phase correction, calculation of metabolic maps)

12.15 R. Kolb:
Quantification of metabolite concentrations
(Fitting of spectra at the MR scanner and with special evaluation programs (e.g. LCModel)

12.45 Lunch break

Clinical Applications of MR Spectroscopy
13.45 T. Nägele:
Impact of MR spectroscopy in neuroradiological diagnostic

14.15 S. Bisdas:
Spectroscopic Imaging of brain tumours

14.45 M. Wilke:
Use of MR-Spectroscopy in Pediatric Neurology

15.15 T. Nägele, S. Bisdas, M. Wilke:
Questions and answers

15.30 End of the seminar

Speakers

Prof. Dr. rer.nat. Uwe Klose
Department of Diagnostic and Interventional Neuroradiology

MS Grzegorz Chadzynski
Department for Neuroimaging

Dr. rer. nat. Adriane Gröger
Centrum for Neurology, Department Neurodegeneration, Hertie-Institute for Clinical Brain Research

Dr. med. Benjamin Bender
Department of Diagnostic and Interventional Neuroradiology

Dipl.-Phys. Rupert Kolb
Department of Diagnostic and Interventional Neuroradiology

Prof. Dr. med. Thomas Nägele
Department of Diagnostic and Interventional Neuroradiology

PD Dr. med. Sotirios Bisdas
Department of Diagnostic and Interventional Neuroradiology

PD Dr. med. Marko Wilke
Department of Pediatric Neurology and Developmental Medicine

Registration

Department for Diagnostic und Interventional Neuroradiology
University Hospital Tübingen
Hoppe-Seyler-Str. 3
72076 Tübingen
Phone: 07071-2986024
petra.rist@med.uni-tuebingen.de

Conference fee: 150 Euro

Venue

University Hospital Tuebingen
Building 410 - Level C3
Lecture hall of the Childrens Hospital
Hoppe-Seyler-Str. 3
72076 Tübingen

This event is endorsed by ESMRMB.