



Advanced Spectroscopy Course

Zurich, Switzerland

This course is tailored to meet the needs of a mixed audience of neuroradiologists, radiologists, radiographers, MR application specialists, MR physicists and clinical scientist, but can be of interest to anyone who wants to apply in vivo MR spectroscopy to clinical or research questions. The main focus is MRS methodology, while also the role of the observed metabolites in the human physiology and clinical applications are covered. After attending this course the participant should understand the basic principles, techniques and limitations of MRS, be able to run MRS exams in brain and different body parts, be able to choose the appropriate parameters for the specific application, know how to export MRS data, have insight into offline postprocessing & quantification tools and be able to interpret MR spectra. Lectures will mostly discuss techniques that are pre-implemented on Philips Scanners, but also include advanced techniques that might be of interest for clinical research. Four hours of hands-on practice per day on both 1.5T and 3T scanners, as well as an introduction to 7T MRS will be included.

The more detailed objectives of this course are

- to understand the basic principles and physics of MR spectroscopy
- to be familiar with all sequences commonly used in spectroscopy
- to be able to optimize parameters and sequences for your own applications
- to be familiar with some of the advanced techniques of spectroscopy
- to understand the different methods of quantification
- to get a brief insight into MRS as diagnostic and research tool

Course fee: 2900 EUR (excl. travel expenses and lodging)

Registration: Online at www.gyrotools.com/courses

The course will be provided in collaboration with the Institute for Biomedical Engineering University and ETH Zurich.