

NEUROIMAGING BLOCK COURSE

Neurowissenschaften ZNZ

20/21. November 2024

The Department of Neuroradiology (USZ) organizes this 2-day course where we introduce you to different techniques (MRI, ASL, EEG-fMRI, MRS, PET, DTI, and Neurostimulation).

The course will take place in-person (no hybrid lectures) at the University Hospital Zurich.

DAY 1: Wednesday 20.11

Room B311 (Nord 1)

09:15-09:20	Introduction	Prof. Dr. L. Michels
09:20-10:20	Basic MR physics	Prof. Dr. D. Nanz
10:20-10:30	BREAK	
10:30-11:15	Functional-MRI: basics & data analysis	Prof. Dr. L. Michels
11:15-12:00	EEG-fMRI	MSc. M. Rosio
12:00-13:00	LUNCH BREAK	
13:00-13:30	Structural MRI applications	Prof. Dr. L. Michels
13:30-14:10	MR Safety	Dr. R. Lüchinger
14:10-14:20	BREAK	
14:20-15:00	Artefacts in MRI	Dr. M. Piccirelli

DAY 2: Thursday 21.11

Room C804/806 (Nord2)

09:15-10:00	Real-time fMRI (neurofeedback)	Prof. Dr. L. Michels
10:00-10:40	Magnetic resonance spectroscopy (MRS)	Prof. Dr. R. O'Gorman Tuura
10:40-11:00	BREAK	
11:00-11:40	Perfusion MRI (including ASL)	Prof. Dr. R. O'Gorman Tuura
11:40-12:30	PET-Imaging: Basics and clinical applications	PD Dr. V. Treyer
12:30-13:30	LUNCH BREAK	
13:30-14:15	Neurostimulation: Clinical applications	Dr. M. Moisa
14:15-15:00	Diffusion MRI, white matter architecture and clinical application	PD Dr. P. Stämpfli
15:00-15:15	BREAK (Transfer for practical session)	
15:15-17:00	PRACTICAL SESSION, 2 groups	
	MR data acquisition	M. Rosio, L. Michels
	Philips Ingenia 3T, MR-center south (V-floor)	
	Structural data analysis	Dr. R. Büchler
	Sternwartstrasse. 6, Floor F, F7 & F1, USZ	

ORGANIZER

Prof. Dr. Lars Michels, Head of Basic Research, Department of Neuroradiology, UZH,
lars.michels@usz.ch

REGISTRATION

DEADLINE: 27. October 2024

Register via the following form:

[Registration for Neuroimaging Block Course \(November 2024\) \(google.com\)](#)

(Firefox 125 or Edge 123)

Since there are only 15 spaces, we will let you know via email if you have been admitted or if you are on the waiting list.

CREDIT POINTS

1 ECTS, Requirements: presence during the course & summary report after the course.

For Master's students in human medicine:

Please note that this is an extracurricular course. Credit points will not count towards the regular studies in human medicine. We can, however, issue a certificate of participation, which you might use to have the 1 ECTS awarded to a future program (e.g. MD-PhD, extra activities during your Master's etc.). It is your responsibility to ensure that your study program recognizes the ECTS acquired in this course.