Mo 05.09.2022	Time	Tue 06.09.2022	Wed 07.09.2022	Thu 08.09.2022	Fri 09.09.2022	Sat. 10.09.2022
CAB G11 / G61 **9:00 - 9:05** Welcome address Menze **CAB G11 / G61** **9:05 - 9:30** Course introduction (Menze) **CAB G11 / G61** **9:30 - 10:15** Scientific Warm-up	09:00 - 10:15	**CAB G11 / G61** Advanced microscopy techniques (Ziegler)	**CAB G11 / G61** X-ray Microscopy (Stampanoni)	**CAB G11 / G61** Optoacoustic Imaging (Razansky)	**Practical day**	**EXCITE Symposium** **CAB G11 / G61** 09:00 - 14:00 Topic: **Bringing algorithms** **close to** **data and scanner:** **distributed learning for** **biomedical imaging**
10:15 - 10:45 fee break (CAB G11 / G61 Food&La	10:15 - 10:45	Coffee break (CAB G11 / G61 Food&Lab)	Coffee break (CAB G11 / G61 Food&Lab)	Coffee break (CAB G11 / G61 Food&Lab)		
CAB G11 / G61 **10:45 - 11:45** Scientific introduction I (Ziegler) **CAB G11 / G61** **11:45 - 12:45 h** Scientific introduction II (Kozerke)	10:45 - 12:00	**CAB G11 / G61** Physical scientists MRI (Kozerke) **CAB G11 / G61** Life scientists Electron Microscopy (Mateos)	**CAB G11 / G61** Physical scientists Electron Microscopy (Sologubenko) **CAB G11 / G61** Life scientists MRI (Kozerke)	**CAB G11 / G61** Physical scientists Image Processing (Menze) **CAB G11 / G61** Life scientists Image Processing I (Stoma)		
12:45 - 13:45 fet lunch (CAB G11 / G61 Food&La	12:00 - 13:00	individual lunch break	individual lunch break	individual lunch break		
CAB G11 / G61 **13:45 - 14:45 h** Scientific introduction III (Stoma)	13:00 - 14:00	**CAB G11 / G61** Ultrasound (Schweizer)	**CAB G11 / G61** Forensic Imaging and Virtopsy (Ebert)	**(CAB G11 / G61)** (CAB G11 / G61) Translational neuromodeling (Stephan)		
CAB G11 / G61 14:45 - 16:00 Poster flash		Practical part	Practical part	Practical part		
16:00 - 16:30 fee break (CAB G11 / G61 Food&La	14:30 - 18:00					
CAB G11 / G61 **16:30 - 17:30** Optical Imaging (Wolf)						
18:00 - 20:30 get-together						

Time	Mo 12.09.2022	Tue 13.09.2022	Wed 14.09.2022	Thu 15.09.2022	Fri 16.09.2022
09:00 - 10:15	**CAB G11 / G61** PET and SPECT: Physical principles and basic strategies of radio-tracer development (Behe)	**CAB G11 / G61** Computational flow modeling based on imaging data (Kurtcuoglu)	**Industry day** **CAB G11 / G61**	**ZOOM Meeting** Recent applications and limits of deep learning in medical image processing (Konukoglu)	**CAB G11 / G61** **CAB G11 / G61** Option A Current developments in MRI technology (Prüssmann) **CAB G11 / G61** Option B In vivo multiphoton imaging to investigate kidney diseases (Hall)
10:15 - 10:45	Coffee break (CAB G11 / G61 Food&Lab)	Coffee break (CAB G11 / G61 Food&Lab)	10:45 - 11:15 **Coffee break** CAB G11 / G61 Food&Lab	Coffee break (CAB G11 / G61 Food&Lab)	Coffee break (CAB G11 / G61 Food&Lab)
10:45 - 12:00	**CAB G11 / G61** Physical scientists Image Registration (Menze) **CAB G11 / G61** Life scientists Image Processing II (Stoma)	**CAB G11 / G61** Option A Imaging in Alzheimer's Disease (Treyer) **CAB G11 / G61** Option B (Ishikawa)		**CAB G11 / G61** Option A MRI: Clinical applications (Boss) **CAB G11 / G61** Option B X-ray crystallography 2.0: watching atoms in motion (Weinert)	**CAB G11 / G61** **Special Lecture** Leonard Held
12:00 - 13:00	individual lunch break	individual lunch break	12:30 - 14:00 **Buffet Lunch** CAB G11 / G61 Food&Lab	individual lunch break	**11:45 - 12:00** Closing remarks
13:00 - 14:00	**CAB G11 / G61** Optical Coherences Tomography (Kling)	**CAB G11 / G61** Magnetic-resonance force microscopy (Degen)		**CAB G11 / G61** Single-molecule FRET (Schuler)	**12:00 - 13:30** Buffet Lunch CAB G11 / G61 Food&Lab
	Practical part	Practical part		Practical part	**HG** **13:30 - 15:00** Examination
14:30 - 18:00					