

INM Retreat 2024

November 18-20

Monday 18.11.2024

Student meeting		
14:00	Building 15.9v – Room 4001b	

Tuesday 19.11.2024

Tutorials / Workshops		
9:00	Session I	
10:45	Coffee Break	
11:15	Session II	

13:00

Opening Session		
14:00	Alexander Drzezga	Welcome

Scientific Presentations			
14:15	Ali Gordjinejad	Single dose creatine improves cognitive performance and induces changes in cerebral high energy phosphates during sleep deprivation	P.01
14:35	Dennis Scheidt	Wave Brain Holoscope: Peering into the 3D World of Rat Brain Tissue with Digital Holographic Microscopy	P.22
14:55	Guanxiao Qi	Transport-Related Effects on Intrinsic and Synaptic Properties of Human Cortical Neurons: A Comparative Study	P.11
14:58	Mahan Hosseini	AutoGaitA - Automated Gait Analysis in Python	P.16
15:01	Katharina Peitz	The influence of bilingualism on gray matter volume within subregions of the hippocampal formation	P.18
15:04	Natalia Chechko	Maternal Neuroplasticity and Mental Health during the Transition to Motherhood	P.23
15:07	Usman Khalid	Design and Construction of a Head Phantom with Internal Carotid Flow for Image-Derived Input Function with 3T or 7T MR-BrainPET Studies	P.24
15:10	Charl Linssen	Rapid prototyping in spiking neural network modeling with NESTML and NEST Desktop	P.25
15:13	Linnea Hoheisel	Effect of anaesthesia on dynamic functional connectivity in rats	P.26
15:16	Camilla Mendl- Heinisch	Prediction of individual cognitive test performance based on imaging and non-imaging data in older adults	P.45
15:19	Nils Richter	Alzheimer-typical neurodegeneration is associated with a more significant cholinergic deficit in clinically diagnosed Alzheimer's disease	P.46



Poster Session I with finger food and drinks		
15:30	Even numbers	
16:15	Odd numbers	

Wednesday 20.11.2024

Scientific Introductory Talks		
9:00	Casey Paquola	New working group - Multiscale Neurodevelopment
9:10	Masoud Tahmasian	New working group - Sleep, Brain, Behaviour
9:20	Christian Schiffer	New young investigator group - Large-Scale AI for Brain Mapping
9:30	Federico Raimondo	New team - Research and Infrastructural Software Engineering for Machine Learning
9:40	Timo Dickscheid	Helmholtz Al
9:45	Boris Orth	EBRAINS National Node Germany
9:50	Alexandra Stein	Bernstein Network Computational Neuroscience
10:05	Robert Speck	Helmholtz Platform for Research Software Engineering (HiRSE) and JuRSE
10:20	Christian Faber	From sequence to structure: Tackling a fundamental protein puzzle with Nobel Prize-winning AI

10:35 Coffee Break

Scientific Presentations			
11:00	Julia Thoennissen	Scalable Data Management for High-Resolution Microscopy of the Human Brain: Challenges and Future Directions	P.44
11:20	Jonas Oberste- Frielinghaus	Emergence of Synfire Chains in Functional Multi-Layer Spiking Neural Networks	P.17
11:40	Federico Natale	Photoswitches in 5-HT2A Receptor	P.02
11:43	Christoph Lerche	MR-PET Imaging performance of the 7T MR BrainPET insert	P.19
11:46	Christiane Jockwitz	Prediction of individual cognitive test scores from brain and non-brain data across the adult lifespan	P.27
11:49	Leon Lotter	Mapping brain functional synchronization to underlying neurotransmitter systems	P.28
11:52	Michael Gemki	Synthesis and Preclinical Evaluation of (S)-7-[18F]F-FT-2102: A Candidate for mIDH1-Selective PET Imaging	P.29
11:55	Otari Gokhadze	Evaluation of tryptophan and tyrosine-based newly developed PET tracers in U87 glioma model	P.30
11:58	Nora Bittner	Impact of methodological choices when reconstructing specific streamline fiber tracts	P.47
12:01	Julian Quabs	Structural connectivity differences reflect microstructural heterogeneity of the human insular cortex	P.48
12:04	Natalia Zhukova	Reduced dynamic functional connectivity in higher ages: are older brains less adaptable?	P.49

12:10 *Lunch*



Poster Session II		
13:00	Even numbers	
14:00	Odd numbers	

Closing Session		
15:00	Concluding Remarks and Poster Prize	

PI Meeting		
15:30	Foyer of the Central Library	