

Schedule - 6th BIGS Neuroscience Summer School (29th August – 7th September 2022)

	Day 1 (29/08) Developmental Neuroscience DZNE lecture hall	Day 2 (30/08) Cellular Neuroscience DZNE lecture hall	Day 3 (31/08) Disease DZNE lecture hall	Day 4 (01/09) Electrophysiology & Imaging DZNE lecture hall	Day 5 (02/09) Circuits DZNE lecture hall	Day 6 (05/09) Behaviour & Computation BMZ	Day 7 (06/09) The Human BMZ	Day 8 (07/09) Psychology BMZ
[8:30 - 10:00]	Gaia Tavano Introduction Sandra Blaess Neuronal Specification and Differentiation	Susanne Schoch-McGovern Synaptic Function and Structure	Eckhard Mandelkow Tau and Neurodegenerative Tauopathies	Tony Kelly Intracellular Electrophysiology Recordings: Currents and Voltage Break [09:30 - 09:45]	Sabine Krabbe Neural Microcircuits for Learning Break [09:30 - 09:45]	Ilona Grunwald Studying mechanisms underpinning adaptive behavior in the fly Break [09:30 - 09:45]	Florian Mormann Extracellular Electrophysiology in Humans: Cognitive Adventures of Single Neurons in the Medial Temporal Lobe	Alexandra Philipsen Clinical Trials in Personalized Medicine in Psychiatry
[10:00 - 10:30]	Break	Break	Break	Break	Break	Break	Break	Break
[10:30 - 12:00]	tba 11:45-12:00 Matthias Kurz Safety instructions for DZNE labs	10:30-11:40 Frank Bradke Regeneration in the Nervous System 11:45-12:00 BIGS Neuroscience Student Council	Donato Di Monte Parkinson's disease: a historical perspective	9:45-10:45 Heinz Beck <i>In vivo</i> Imaging Approaches 11:00-12:00 Martin Fuhrmann Optogenetics and Manipulation of Neural Circuits	9:45-10:45 Marcel Oberländer Structural and Functional Principles of Cortical Circuit Organization 11:00-12:00 Raoul-Martin Memmesheimer Drifting representations for persistent memory: Neuron transitions and unsupervised compensation	9:45-10:45 Michael Pankratz Neural Circuit Analysis in <i>Drosophila</i> 11:00-12:00 Pascal Malkemper The Neural Basis of Magnetic Orientation in Vertebrates	Tony Stöcker Challenges and Potential of Ultra-High Field Neuro-MRI	10:30-11:20 Cornelia McCormick Human Hippocampal Memory Research 11:30-12:00 Anne Boehlen NeurotechEU Student council NeurotechEU Concluding Remarks
[12:00 - 13:30]	Break	Break	Break	Break	Break	Break	Break	Break
[13:30 - 16:30]	Lab visits	Lab visits	Lab visits	Lab visits	Lab visits	Lab visits	13:30-14:15 Introduction BNTrAinee program Transfer by bus 630 15:00 Rhineland Study Center visit	Lab visits