

Preliminary Schedule - 2nd BIGS Neuroscience summer school (April 16 - 25, 2018)

	Day 1 (16/04) Molecular biology and genetics	Day 2 (17/04) Cellular and developmental neuroscience	Day 3 (18/04) Disease and regeneration, Stem cells	Day 4 (19/04)	Day 5 (20/04) Imaging and optogenetics	Day 6 (23/04) Electrophysiology	Day 7 (24/04) fMRI Population studies	Day 8 (25/04) Computational neuroscience, robotics
Breakfast [8:00 - 08:30]								
Lecture 1 [8:30 - 10:00]	Gaia Tavosanis Introduction Sandra Blaess Neuronal specification and differentiation	Susanne Schoch McGovern Cell biology of the neuron	Eckhard Mandelkow Tau and neurodegenerative tauopathies	Marcel Oberländer and Laura Ewell	Heinz Beck In vivo Imaging approaches	Christian Henneberger and Tony Kelly Basic principles of electrophysiological recordings	Tony Stöcker Population Neuroimaging Acquisition Methods	09:00 Sach Mukherjee Machine learning and statistics
Coffee Break [10:00 - 10:30]								
Lecture 2 [10:30 - 12:00]	10:45 Pietro Pilo Boyl Molecular cloning, Genetics	Frank Bradke Regeneration in the nervous system	Dino Di Monte	Michael Pankratz Comparative Connectome Analysis	Stefan Remy Optogenetics and manipulation of neural circuits	Florian Mormann Extracellular electrophysiology in humans: Cognitive adventures of single neurons in the medial temporal lobe	Tour through one Rhineland study center 11:00- 13:00 (no lunch @DZNE)	11:00 - 12:30 Jürgen Gall Video Analysis for Studying the Behavior of Humans and Mice
Lunch & travel [12:00 - 13:30]	lunch @ DZNE	lunch @ DZNE	lunch @ DZNE	lunch @ DZNE	lunch @ DZNE	lunch @ DZNE	lunch @ study center	lunch @ DZNE