

Schedule - 5th BIGS Neuroscience Summer School (23rd August - 1st September 2021)

	Day 1 (23/08) Developmental Neuroscience	Day 2 (24/08) Cellular Neuroscience	Day 3 (25/08) Disease	Day 4 (26/08) Electrophysiology & Imaging	Day 5 (27/08) Circuits	Day 6 (30/08) Behaviour & Computation	Day 7 (31/08) The Human <i>*virtual only*</i>	Day 8 (01/09) Psychology <i>*virtual only*</i>
[8:30 - 10:00]	Gaia Tavosanis Introduction <hr/> Sandra Blaess Neuronal Specification and Differentiation	Susanne Schoch-McGovern Synaptic Function and Structure	Eckhard Mandelkow Tau and Neurodegenerative Tauopathies	Heinz Beck <i>In vivo</i> Imaging Approaches	Michael Pankratz Neural Circuit Analysis in <i>Drosophila</i> Break [09:30 - 09:45]	Monika Scholz Behaviour and its neural Representation	Florian Mormann Extracellular Electrophysiology in Humans: Cognitive Adventures of Single Neurons in the Medial Temporal Lobe	Alexandra Philippen Clinical Trials in Personalized Medicine in Psychiatry
[10:00 - 10:30]	Break	Break	Break	Break	Break	Break	Break	
[10:30 - 12:00]	Dietmar Schmucker Molecular Mechanisms of Neurite Branching and CNS Synaptogenesis	Frank Bradke Regeneration in the Nervous System	Ayse Ulusoy Animal models of Parkinson's disease	Martin Fuhramnn Optogenetics and Manipulation of Neural Circuits	Sabine Krabbe Neural Microcircuits for Learning <hr/> Marcel Oberländer Structural and Functional Principles of Cortical Circuit Organization	Pascal Malkemper The Neural Basis of Magnetic Orientation in Vertebrates <hr/> Neurotech^{EU} <hr/> BIGS Neuroscience Student Council	Tony Stöcker Population Neuroimaging Acquisition Methods	Cornelia McCornick Human Hippocampal Memory Research
[12:00 - 13:30]	Break	Break	Break	Break	Break	Break	Break	Break
[13:30 - 14:30]	Petro Pilo Boyl Genetic Tools for Neurobiology	Lab visits	Lab visits	Tatjana Tchumatchenko Clustering Algorithms for Molecular Images	Tony Kelly Intracellular Electrophysiology Recordings: Currents and Voltage		Lab visits	Concluding Remarks
[14:30 - 15:00]	Break	Break	Break	Break	Break	Break	Break	Break
[15:00 - 16:30]	Elevator Pitch You and Your Project Group 1	Lab visits	Lab visits	Elevator Pitch You and Your Project Group 2			Lab visits	