

# Schedule - 4<sup>th</sup> BIGS Neuroscience Summer School (15<sup>th</sup>-24<sup>th</sup> June 2020)

	Day 1 (15/06) Developmental Neuroscience	Day 2 (16/06) Cellular neuroscience	Day 3 (17/06) Disease	Day 4 (18/06) Electrophysiology & Imaging	Day 5 (19/06) Behaviour	Day 6 (22/06) Circuits	Day 7 (23/06) The human brain	Day 8 (24/06) Psychology
<b>LECTURE 1</b> <b>[8:30 -10:00]</b>	<b>Gaia Tavosanis</b> Introduction  <b>Sandra Blaess</b> Neuronal specification and differentiation	<b>Dietmar Schmucker</b> TBD	<b>Eckhard Mandelkow</b> Tau and neurodegenerative tauopathies	<b>Tony Kelly</b> Introduction to electrophysiological recordings	<b>Michael Pankratz</b> Neural circuit analysis in <i>Drosophila</i>	<b>Marcel Oberländer</b> Structural and functional principles of cortical circuit organization	<b>Florian Mormann</b> Extracellular electrophysiology in humans: Cognitive adventures of single neurons in the medial temporal lobe	<b>Alexandra Philipsen</b> Clinical trials in personalized medicine in psychiatry
<b>Break</b> <b>[10:00 - 10:30]</b>								
<b>LECTURE 2</b> <b>[10:30 - 12:00]</b>	<b>Pietro Pilo Boyl</b> Genetic tools for Neurobiology	<b>Frank Bradke</b> Regeneration in the nervous system	<b>Donato Di Monte</b> Parkinson's disease: a historical perspective	<b>Heinz Beck</b> In vivo imaging approaches	<b>Laura Ewell</b> Spatial memory coding in the hippocampus	<b>Martin Fuhrmann</b> Optogenetics and manipulation of neural circuits	<b>Tony Stöcker</b> Population neuroimaging acquisition methods	<b>Cornelia McCormick</b> Human hippocampal memory research