



# Full Syllabus



<b>Course Title</b>	
Introduction to neuroglia in health and disease	
<b>Lecturer</b>	
Prof. Alexei Verkhratsky	
<b>Semester</b>	
second	
<b>Course requirements</b>	
Introduction to neurobiology	
<b>Final grade components</b>	
Report	
<b>Course schedule</b>	
Class no. / Date	Subject and Requirements (assignments, reading materials, tasks, etc.)
1-2	History of neuroscience and neuroglia research
3	Physiology of astroglia I: General principles and heterogeneity
4	Physiology of astroglia II: Ion channels & Neurotransmitter receptors
5	Physiology of astroglia III: Homeostatic Transporters
6	Physiology of astroglia IV: Ionic (Ca <sup>2+</sup> , Na <sup>+</sup> , K <sup>+</sup> , Cl <sup>-</sup> ) signalling
7	Physiology of astroglia V: Astrocytic functions
8	Physiology of astroglia VI: Astrocytes, synaptic transmission and behaviour
9	General pathophysiology of neuroglia
10	Glia in Neurotrauma and neuroinfection
11	Glia in neuropsychiatric diseases
12	Glia in ageing and neurodegeneration



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<b>Required course reading</b>	
Introduction to Neurobiology	
<b>Optional course reading</b>	
<b>Comments</b>	