

**Graduate Course**  
**Understanding Neuroscience 2019**  
**Blå Auditorium, Århus University, building 1266**  
<http://www.au.dk/om/organisation/find-au/bygningskort/?b=1266>.  
**Course Leader: Marco Capogna**

The course addresses multidisciplinary cellular and system neuroscience, tackling mechanisms of network operations in behaviourally- and clinically-important brain systems, such as the hippocampus, amygdala and motor areas. One major topic is to explain how specific neuron types contribute to brain functions. The course also provides an overview of current research themes and methods in cellular and system neuroscience. Each session will be three hours in length and conducted by two or more speakers.

<b>DATES</b>	<b>TOPICS</b>	<b>SPEAKERS</b>	<b>READING MATERIAL</b>
26 Nov, Tuesday Morning 9-12	Introduction, Amygdala networks	<b>Marco Capogna (Århus)</b> <b>Francesco Ferraguti (Innsbruck)</b>	To be distributed as PDF files prior to course
26 Nov Tuesday Afternoon 13-17	Amygdala neuron types and synaptic plasticity	<b>Norbert Hajos (Budapest)</b> <b>Sadegh Nabavi (Århus)</b>	To be distributed as PDF files prior to course
27 Nov, Wednesday Morning 9-12	Hippocampus: Excitability and epilepsy	<b>Mogens Andreasen (Århus)</b> <b>Steen Nedergaard (Århus)</b>	To be distributed as PDF files prior to course
27 Nov Wednesday Afternoon 13-17	Hippocampus: spatial map and memory	<b>Morten Skovgaard Jensen (Århus)</b> <b>Jozsef Csicsvari (Vienna)</b>	To be distributed as PDF files prior to course
28 Nov Thursday Morning 9-12	Networks underlying motor systems: spinal cord	<b>Marco Beato (London)</b> <b>Jean-François Perrier (Copenhagen)</b>	To be distributed as PDF files prior to course
28 Nov Thursday Afternoon 13-17	Networks underlying motor systems: spinal & supra- spinal systems and cerebellum	<b>Ole Kiehn (Copenhagen)</b> <b>Robert Brownstone (London)</b> <b>Chris De Zeeuw (Rotterdam)</b>	To be distributed as PDF files prior to course
29 Nov, Friday Morning 9-12	Alzheimer's disease models, Neuroimaging	<b>Mark West (Århus)</b> <b>Patrick Fischer (Copenhagen)</b>	To be distributed as PDF files prior to course
29 Nov, Friday Sandwich Lunch 12-13			