

## Master “Interdisciplinary Neuroscience”

### Lecture “Neuroscience I – selected topics ” WS 2020/21

**Lectures will be given via zoom or will be provided in OLAT** (update: 30.9.20)

Topics of the lecture are structured according to the chapters in the textbook Bear et al: “Neuroscience: Exploring the brain” (4<sup>th</sup> edition)

Additional literature to the lecture: Kandel et al.: “Principles of Neural Science”; Galicia & Lledo (eds): “Neurosciences - From Molecule to Behavior: A University Textbook”; Squire et al.: “Fundamental neuroscience”

Date		Lecturer	Topic
<b>Mon, 04.01.2021 16:00</b> Precasted in OLAT	Lecture 1 Chapter 2	<b>Zimmermann</b>	Neurons, Glia and Vasculature: Principle cellular elements of nervous tissue
<b>Tue, 05.01.2021 09:00</b> live in lecture hall or precasted in OLAT	Lecture 2 Chapter 5	<b>Klein</b>	Synaptic Transmission / Neurotransmitter Systems
<b>Wed, 06.01.2021 09:00</b> live in lecture hall or precasted in OLAT	Lecture 3 Chapter 6	<b>Klein</b>	Synaptic Transmission / Neurotransmitter Systems
<b>Thu, 07.01.2021 09:00</b> Precasted in OLAT	Lecture 4 Chapter 8	<b>Grünwald</b>	The Chemical Senses
<b>Mon, 11.01.2021 16:00</b> live in lecture hall or precasted in OLAT	Lecture 5 Chapter 9,10	<b>Peichl</b>	The Eye /Central Visual System
<b>Tue, 12.01.2021 09:00</b> live in lecture hall or precasted in OLAT	Lecture 6 Chapter 9,10	<b>Peichl</b>	The Eye /Central Visual System
<b>Wed, 13.01.2021 09:00</b> Precasted in OLAT	Lecture 7 Chapter 11	<b>Kössl</b>	The Auditory, Vestibular and Somatosensory Systems
<b>Thu, 14.01.2021 09:00</b> ZOOM	Lecture 8 Chapter 13	<b>Roeper</b>	Control of Movement
<b>Fri, 15.01.2021 09:00</b> ZOOM	Lecture 9 Chapter 14	<b>Roeper</b>	Control of Movement

<b>Mon, 18.01.2021 16:00 ZOOM</b>	Lecture 10 Chapter 12	<b>Hechavarria</b>	The Auditory, Vestibular and Somatosensory Systems
<b>Tue, 19.01.2021 09:00</b> live in lecture hall or precasted in OLAT	Lecture 11 Chapter 15	<b>Klein</b>	Chemical Control of the Brain and Behavior
<b>Wed, 20.01.2021 09:00</b> Precasted in OLAT	Lecture 12 Chapter 16,17,18	<b>Duvarci</b>	Affective Neuroscience
<b>Mon, 25.01.2021 16:00</b> Precasted in OLAT	Lecture 13 Chapter 16,17,18	<b>Duvarci</b>	Affective Neuroscience
<b>Wed, 27.01.2021 09:00 ZOOM</b>	Lecture 14 Chapter 20	<b>Kössl / Kell</b>	Language (extended lecture; no seminar that day)
<b>Mon, 01.02.2021 16:00</b> live in lecture hall or precasted in OLAT	Lecture 15 Chapter 19	<b>Maronde</b>	Brain Rhythms and Sleep
<b>Wed, 03.02.2021 09:00</b> Precasted in OLAT	Lecture 16 Chapter 21	<b>Gaese</b>	Attention
<b>Mon, 08.02.2021 16:00 ZOOM</b>	Lecture 17 Chapter 23	<b>Acker-Palmer</b>	Wiring the Brain
<b>Wed, 10.02.2021 09:00 ZOOM</b>	Lecture 18 Chapter 22	<b>Sigurdsson</b>	Mental Illness
<b>Mon, 15.02.2021 16:00</b> Precasted in OLAT	Lecture 19 Chapter 24,25	<b>Grünewald</b>	Neurobiology of Learning and Memory
<b>Wed, 17.02.2021 09:00</b> Precasted in OLAT	Lecture 20 Chapter 24,25	<b>Grünewald</b>	Molecular mechanisms of Learning and Memory formation
<b>?*</b>	<i>together with Master PBioC at Campus Riedberg ?</i>	<b>Prof. Büchel</b>	<i>Rules of good scientific practice</i>
<b>?*</b>	hands-on course	<b>Maronde, Rami</b>	Human Brain Anatomy

- Unclear whether/how it will take place

Exam: 03.03.2021 10:00h; Campus Riedberg, Otto-Stern-Zentrum, H2  
Redo-exam: Date tba; 10:00 h ; Biologicum, room 3.101 (Kössl group)