

## Master “Interdisciplinary Neuroscience”

### Lecture “Neuroscience I – selected topics ” WS 2022/23

**Venue:**

Campus Riedberg, Biologicum, Bio -1.203, lecture hall 2

or

Campus Niederrad, Building 89, Neuroscience Center, seminar room

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,</b> <b>28.11.22</b> 09:00 + 11:00 Sem Campus Riedberg	Lecture 1 Chapter 2	<b>Hefendehl</b>	Microglia, Neurovascular Unit and Neurodegeneration
<b>Wed,</b> <b>30.11.22</b> 09:00 + 11:00 Sem Campus Riedberg	Lecture 2 Chapter 5	<b>Klein</b>	Synaptic Transmission / Neurotransmitter Systems
<b>Mon,</b> <b>05.12.22</b> 16:00 Campus Riedberg	Lecture 3 Chapter 6	<b>Klein</b>	Synaptic Transmission / Neurotransmitter Systems
<b>Wed</b> <b>07.12.22</b> 09:00 + 11:00 Sem Campus Riedberg	Lecture 4 Chapter 8	<b>Grünwald</b>	The Chemical Senses
<b>Mon,</b> <b>12.12.22</b> 16:00 Campus Riedberg	Lecture 5 Chapter 9	<b>Peichl</b>	The Eye /Central Visual System
<b>Wed,</b> <b>14.12.22</b> 09:00 + 11:00 Sem Campus Riedberg	Lecture 6 Chapter 10	<b>Peichl</b>	The Eye /Central Visual System
<b>Thu !</b> <b>15.12.22</b> 08:00 + 10:00 Sem Campus Niederrad	Lecture 7 Chapter 13	<b>Roeper</b>	Control of Movement
<b>Fri !</b> <b>16.12.22</b> 08:00 Campus Niederrad	Lecture 8 Chapter 14	<b>Roeper</b>	Control of Movement
<b>Mon</b> <b>19.12.22</b> 16 :00 Campus Riedberg	Lecture 9 Chapter 11	<b>Kössl</b>	Auditory System/Cochlea
<b>Wed</b> <b>21.12.22</b> 09:00 + 11:00 Sem Campus Riedberg	Lecture 10 Chapter 12	<b>Hechavarria</b>	Central Auditory System

<b>Tue !</b> <b>10.01.23</b> 09:00 Campus Riedberg	Lecture 11 Chapter 15	<b>Klein</b>	Chemical Control of the Brain and Behavior
<b>Wed,</b> <b>11.01.23</b> 09:00 + 11:00 Sem Campus Niederrad	Lecture 12 Chapter 16,17,18	<b>Duvarci</b>	Affective Neuroscience/Emotions
<b>Mon,</b> <b>16.01.23</b> 16:00 Campus Niederrad	Lecture 13 Chapter 16,17,18	<b>Duvarci</b>	Affective Neuroscience/Motivation
<b>Wed,</b> <b>18.01.23</b> 09:00 Campus Riedberg	Lecture 14 Chapter 20	<b>Kössl / Kell</b>	Language (extended lecture; no seminar that day)
<b>Mon,</b> <b>23.01.23</b> 16:00 Campus Niederrad	Lecture 15 Chapter 19	<b>Maronde</b>	Sleep, circadian rhythms and consciousness
<b>Thu !</b> <b>26.01.23</b> 09:00 + 11:00 Sem Campus Riedberg	Lecture 16 Chapter 21	<b>Gaese</b>	Attention
<b>Mon,</b> <b>30.01.23</b> 16:00 Campus Riedberg	Lecture 17 Chapter 23	<b>Acker-Palmer</b>	Wiring the Brain
<b>Wed</b> <b>01.02.23</b> 09:00 + 11:00 Sem Campus Niederrad	Lecture 18 Chapter 22	<b>Sigurdsson</b>	Mental Illness
<b>Mon,</b> <b>06.02.23</b> 10:00 Otto-Stern-Zentrum H6 Campus Riedberg	Lecture	<b>Büchel</b>	Rules of good scientific practice
<b>Mon,</b> <b>06.02.23</b> 16:00 Campus Riedberg	Lecture 19 Chapter 24,25	<b>Grünwald</b>	Neurobiology of Learning and Memory
<b>Wed,</b> <b>08.02.23</b> 09:00 + 11:00 Sem Campus Riedberg	Lecture 20 Chapter 24,25	<b>Grünwald</b>	Molecular mechanisms of Learning and Memory formation
<b>Date to be announced</b> Campus Niederrad	hands-on course*	<b>Maronde, Rami</b>	Human Brain Anatomy

\* Human Brain Anatomy – Campus Niederrad, preparation course room in building 27, 10:00 - 12:00 and 13:00 - 15:00

Exam: Wednesday, February 22, 2023 // 10:00 // Campus Riedberg, Biologicum, lecture hall 1, Bio -1.202

Redo-exam: Thursday, March 30, 2023 // 10:00 h ; Biologicum, room 3.101 (Kössl group)