

Master “Interdisciplinary Neuroscience”

Lecture “Neuroscience I – selected topics ” WS 2023/24

Venue:

Campus Riedberg, Biologicum, Bio -1.203, lecture hall 2
or
Campus Niederrad, Building 89, Neuroscience Center, seminar room

update: 10.11.23

Topics of the lecture are structured according to the chapters in the textbook Bear et al: “Neuroscience: Exploring the brain” (4th 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
Mon, 27.11.23 09:00 + 11:00 Sem Campus Riedberg	Lecture 1 Chapter 2	Hefendehl	Microglia, Neurovascular Unit and Neurodegeneration
Wed, 29.11.23	Lecture 2 Chapter 5	Klein – recorded lecture	Synaptic Transmission / Neurotransmitter Systems
Mon, 04.12.23	Lecture 3 Chapter 6	Klein – recorded lecture	Synaptic Transmission / Neurotransmitter Systems
Wed 06.12.23 09:00 + 11:00 Sem Campus Riedberg Lecture hall 1 ! Bio – 1.202	Lecture 4 Chapter 8	Grünewald	The Chemical Senses
Mon, 11.12.23 16:00 Campus Riedberg	Lecture 5 Chapter 9	Peichl	The Eye /Central Visual System
Wed, 13.12.23 09:00 + 11:00 Sem Campus Riedberg room tba	Lecture 6 Chapter 10	Peichl	The Eye /Central Visual System
Thu ! 14.12.23 08:00 + 10:00 Sem Campus Niederrad	Lecture 7 Chapter 13	Roeper	Control of Movement
Fri ! 15.12.23 08:00 Campus Niederrad	Lecture 8 Chapter 14	Roeper/ Diamantopoulou	Control of Movement and Thoughts
Mon 18.12.23 16 :00 Campus Riedberg	Lecture 9 Chapter 11	Kössl	Auditory System/Cochlea
Wed 20.12.23 09:00 + 11:00 Sem	Lecture 10 Chapter 12	Hechavarria	Central Auditory System

Campus Riedberg			
Mon 08.01.24 <i>16:00 Sem and Q&A session</i>	Lecture 11 Chapter 15	Klein – recorded lecture on OLAT	Chemical Control of the Brain and Behavior
Wed, 10.01.24 <i>09:00 + 11:00 Sem</i> Campus Niederrad	Lecture 12 Chapter 16,17,18	Duvarci	Affective Neuroscience/Emotions
Mon, 15.01.24 16:00 Campus Niederrad	Lecture 13 Chapter 16,17,18	Duvarci	Affective Neuroscience/Motivation
Wed, 17.01.24 09:00 Campus Riedberg	Lecture 14 Chapter 20	Kössl / Kell	Language (extended lecture; no seminar that day)
Mon, 22.01.24 16:00 Campus Niederrad	Lecture 15 Chapter 19	Maronde	Sleep, circadian rhythms and consciousness
Wed, 24.01.24 14:00 Campus Niederrad		Kell	Postponed lecture on “Functional systems” (Module: Basic Methods in Neuroscience)
Thu ! 25.01.24 <i>09:00 + 11:00 Sem</i> Campus Riedberg	Lecture 16 Chapter 21	Gaese	Attention
Mon, 29.01.24 16:00 Zoom session	Lecture 17 Chapter 23	Acker-Palmer	Wiring the Brain
Wed 31.01.24 <i>09:00 + 11:00 Sem</i> Campus Niederrad	Lecture 18 Chapter 22	Sigurdsson	Mental Illness
Mon, 05.02.24 ?? Venue ??	Lecture	Büchel	Rules of good scientific practice
Mon, 05.02.24 16:00 Campus Riedberg	Lecture 19 Chapter 24,25	Grünwald	Neurobiology of Learning and Memory
Wed, 07.02.24 <i>09:00 + 11:00 Sem</i> Campus Riedberg	Lecture 20 Chapter 24,25	Grünwald	Molecular mechanisms of Learning and Memory formation
Wed, 14.02.24 ??? 11:15 Campus Niederrad	hands-on course*	Maronde, Rami	Human Brain Anatomy?

* Human Brain Anatomy – Campus Niederrad, preparation course room in building 27, 11:15 – 13:30

Exam: 21. February 24 // 10:00 // Campus Riedberg, Biologicum, lecture hall 1, Bio -1.202

Redo-exam: 9. April 24 // 10:00 h // Campus Riedberg, Biologicum, room 3.101 (Kössl group)