

Master “Interdisciplinary Neuroscience”

Lecture “Neuroscience I – selected topics ” WS 2024/25

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” (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, 25.11.24 09:00 + 11:00 Sem Campus Riedberg	Lecture 1 Chapter 2	Hefendehl	Alzheimer’s disease and stroke
Wed 27.11.24 09:00 + 11:00 Sem Campus Riedberg	Lecture 2 Chapter 2	Hefendehl	Microglia, Neurovascular Unit
Mon, 02.12.24 09 :00 + 11 :00 Sem Campus Riedberg	Lecture 3 Chapter 6	Gottschalk	Synaptic Transmission / Neurotransmitter Systems
Wed 04.12.24 09:00 + 11:00 Sem Campus Riedberg	Lecture 4 Chapter 8	Grünewald	The Chemical Senses
Mon, 09.12.24 16:00 Campus Riedberg	Lecture 5 Chapter 9	Peichl	The Eye /Central Visual System
Wed, 11.12.24 09:00 + 11:00 Sem Campus Riedberg	Lecture 6 Chapter 10	Peichl	The Eye /Central Visual System
Thu ! 12.12.24 08:00 + 10:00 Sem Campus Niederrad	Lecture 7 Chapter 13	Roeper	Control of Movement
Fri ! 13.12.24 08:00 Campus Niederrad	Lecture 8 Chapter 14	Roeper	Control of Movement
Mon 16.12.24 16 :00 Campus Riedberg	Lecture 9 Chapter 11	Hechavarria	Auditory System/Cochlea
Wed 18.12.24 09:00 + 11:00 Sem Campus Riedberg	Lecture 10 Chapter 12	Hechavarria	Central Auditory System

Mon 13.01.25 16:00 Campus Niederrad	Lecture 11 Chapter 15	Bas Orth	Chemical Control of the Brain and Behavior
Wed, 15.01.25 09:00 + 11:00 Sem Campus Niederrad	Lecture 12 Chapter 16,17,18	Duvarci	Affective Neuroscience/Emotions
Mon, 20.01.25 16:00 Campus Niederrad	Lecture 13 Chapter 16,17,18	Duvarci	Affective Neuroscience/Motivation
Wed, 22.01.25 09:00 + 11:00 Sem Campus Niederrad ?	Lecture 14 Chapter 20	Kell	Speech and Language I
Mon, 27.01.25 16:00 Campus Riedberg	Lecture 15 Chapter 23	Acker-Palmer	Wiring the Brain
Thu, 30.01.25 09:00 + 11:00 Sem Campus Riedberg	Lecture 16 Chapter 21	Gaese	Attention
Mon, 03.02.25 16:00 Campus Niederrad	Lecture 17 Chapter 19	Maronde	Sleep, circadian rhythms and consciousness
Wed 05.02.25 09:00 + 11:00 Sem Campus Niederrad	Lecture 18 Chapter 22	Sigurdsson	Mental Illness
Mon, 10.02.25 10:00 Campus Riedberg OSZ H5	Lecture	Büchel	Rules of good scientific practice
Mon, 10.02.25 16:00 Campus Riedberg	Lecture 19 Chapter 24,25	Grünwald	Neurobiology of Learning and Memory
Wed, 12.02.25 09:00 + 11:00 Sem Campus Riedberg	Lecture 20 Chapter 24,25	Grünwald	Molecular mechanisms of Learning and Memory formation
Wed, 19.02.25 ? 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: Thu, 27.2.25 // 10:00 // Campus Riedberg, Biologicum, lecture hall 1, Bio -1.202

Redo-exam: Thu, 3.4.25 // 10:00 h ; Campus Riedberg, Biologicum, room tba