

List of elective modules of the Master program „Interdisciplinary Neuroscience“

Subject area A: Basic Neuroscience

- Cellular and Molecular Basis of Signal Transfer in the Nervous System (FB15) **Volkandt/Zimmermann**
- Auditory Neuroscience (FB15) **Kössl**
- Molecular Control of Neuronal Differentiation (MPI Hirnforschung & FB15) **Rohrer**
- Functional Anatomy of the Retina (MPI Hirnforschung & FB15) **Peichl**
- Clock Mechanisms in Mammalian Neurons and Neuroendocrine Cells (FB16) **Stehle**
- Cellular and Molecular Biology of the Circadian System (FB16) **von Gall/Korf**
- Neurobiology of the Nematode *Caenorhabditis elegans* (FB14) **Gottschalk**
- Cellular Physiology of Dopaminergic Neurons (FB16 & FB12) **Röper/Schneider**
- Theoretical and Applied Microdialysis (FB14) **Klein**
- Neurophysiology and Behaviour (FB 15) **Grünewald**
- Developmental Neurobiology (FB 15) **Acker-Palmer**

Subject area B: Clinical Neuroscience

- Aging and Neurodegeneration (FB16) **Auburger**
- Physiology and Pharmacology of Pain (FB16) **Tegder/Geisslinger**
- Human Neuroanatomy and Neurohistology (FB16) **von Gall/Korf/Stehle /Rami**
- Plasticity in Hippocampus – Morphology, Physiology, and Clinical Relevance (FB16) **Deller**
- Motor Cortex Neurophysiology (FB16) **Ziemann**
- Brain Damage and Neuroprotection (FB16) **Kögel/Rami**
- Clinical Paediatric Neurology (FB16) **Kieslich**
- Clinical Neuroimaging (FB16) **Zanella/Uhlhaas**

Subject area C: Cognitive and Computational Neuroscience

- Modern non-invasive Methods in Human Cognition Research (FB16) **Kaiser**
- Cognitive development across the life span and neuroimaging (FB 5) **Knopf/Mack**
- Modeling and Simulation in Neuroscience (FB12) **Wittum** (probably as from April 2010)