

List of elective modules 2012

Subject area A: Basic Neuroscience

- Cellular and Molecular Basis of Signal Transfer in the Nervous System (FB15) **Volknandt/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) **Grünwald**
- Developmental Neurobiology (FB 15) **Acker-Palmer**
- The Neuro-Vascular Interface (FB 16) **Liebner**
- Olfactory Processing – Behavioural Testing and in vivo Imaging (MPI für Biophysik) **Spors**
- Embryonic and adult neurogenesis (FB 16) **Schulte**
- Electrophysiology of the hippocampus during spatial navigation (FB 16) **Sigurdsson/Roeper**

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) **Berkefeld**
- Clinical Auditory Neuroscience (FB 16) **Baumann**

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**
- Modeling and Simulation in Neuroscience (FB12) **Wittum**
- Virtual Hippocampus – Introduction to Computational Neuroscience (FB 16) **Jedlicka/Deller**
- Studying Human Cognition with Magnetoencephalography (FB 16) **Wibral**
- Cognitive Neuroscience – Higher Cognitive Functions (FB 5) **Fiebach**
- Cognitive and sensorimotor aspects of speech (FB 16) **Kell**