

neu600 – Neuroscience Research Projects offered 2020/21

No.	Project (Preliminary list, please check Stud.IP for updates)	Teacher
5.02.945	Navigation mechanisms in nocturnal bird migration	Heyers, Dominik, Mouritsen, Henrik
6.03.605	Ophthalmology – Molecular and cellular mechanisms in regenerative Medicine	Mertsch, Sonja
6.03.613	Human Genetics - Exploration of rare monogenic brain malformations in children using high-throughput and classical sequencing techniques	Owczarek-Lipska, Marta
6.03.614	Human Genetics - Developing therapies to treat splice defect	Jüschke, Christoph, Neidhardt, John
6.03.615	Human Genetics - Mutation identification, pathogenic mechanisms and therapy development	Neidhardt, John
6.03.616	Human Genetics - Severe diseases of the cilium: signal transduction and treatment options	Neidhardt, John
6.03.617	Human Genetics - Transcriptome and Exome analyses in neuronal and neurosensory diseases	Neidhardt, John, Jüschke, Christoph
6.03.620	Animal Physiology & Behaviour: Auditory perception studies	Klump, Georg Martin, Langemann, Ulrike
6.03.621	Animal Physiology & Behaviour: Modeling the auditory system	Klump, Georg Martin, Langemann, Ulrike
6.03.630	Biochemistry: Protein function in neurosensory systems	Koch, Karl-Wilhelm Scholten, Alexander
6.03.640	Cochlea and auditory brainstem physiology: Evolutionary auditory neuroscience	Köppl, Christine
6.03.641	Cochlear and auditory brainstem physiology: Developmental neurobiology and evolution	Sienknecht, Ulrike
6.03.650	Computational Neuroscience: Invertebrate somatosensory system	Kretzberg, Jutta
6.03.651	Computational Neuroscience: Modeling & data analysis	Kretzberg, Jutta, Ashida, Go
6.03.660	Neurogenetics - Structure-function analyses of the potassium chloride cotransporter KCC2	Hartmann, Anna-Maria
6.03.661	Neurogenetics - Evolution of the auditory system	Claußen, Maike, Ebbers, Lena
6.03.662	Neurogenetics - Analysis of mouse models for deafness	Ebbers, Lena, Claußen, Maike

6.03.670	Visual neuroscience – Retinal Anatomy	Puller, Christian, Greschner, Martin
6.03.671	Visual neuroscience - physiology / data analysis	Greschner, Martin Puller, Christian
6.03.675	Visual neuroscience - Molecular mechanisms and cellular networks involved in signal transduction in the vertebrate retina	Janssen-Bienhold, Ulrike
6.03.676	Visual neuroscience - Molecular and cellular basis of regeneration in the peripheral nervous system	Janssen-Bienhold, Ulrike
6.03.680	Neurosensorys - Vertebrate retina: Immunohistochemistry, intracellular dye injections, microscopy and image analysis	Dedek, Karin
6.03.685	Anatomy - Molecular and cellular mechanisms of neuronal differentiation	Bräuer, Anja
6.03.690	Computational Audition - Statistical data analysis	Anemüller, Jörn
6.03.691	Neurocognition and functional neurorehabilitation	Krancioch-Debener, Cornelia