

**GGNB: Short Methods Courses & Method Seminars; Extended Methods Courses**  
**Preliminary program October 2018 - March 2019 (winter semester 2018/19)**

- subject to change -

- Registration possible two months before the course month -

Department/Group	Supervisor(s)	UniVZ	ID	Title of Course	Credits	Date
<b>Biochemistry</b>						
Feußner, Ivo	Herrfurth, Cornelia	340045	A 016	Introduction to lipid analysis	1.0	18-20 Mar 2019
Ischebeck, Till	Ischebeck, Till	340243	A 198	Metabolite profiling (GC-MS)	1.0	3-4 Dec 2018
Jahn, Reinhard	Angel Perez-Lara, Sonja Pribicevic	340255	A 210	Study of membrane binding proteins involved in exocytosis	1.0	29-30 Nov 2018
Rehling, Peter	Bettina Homberg, Sabine Poerschke	340211	A 163	Native membrane protein complex isolation	0.5	15 Nov 2018
Rehling, Peter	Ridhima Gomkale	340212	A 164	<i>In vitro</i> import into purified mitochondria	1.0	15-16 Oct 2018
Rodnina, Marina	Mercier, Evan	340010	A 081	Introduction to transient kinetic methods	1.0	15-16 Oct 2018
Tittmann, Kai	Sautner, Viktor	340018	A 064	Principles and methods of protein purification by chromatography	1.0	5-6 Nov 2018
Tittmann, Kai	Sören Rindfleisch / Viktor Sautner	340077	A 071	Thermodynamic characterization of biomolecular interactions by isothermal titration calorimetry	1.0	8-9 Nov 2018
Urlaub, Henning	Alexandra Stützer, Aleksandar Chernev	340237	A 177	Sequence analysis of proteins and their post-translational modifications by electrospray ionization (ESI) mass spectrometry	1.0	7-9 Nov 2018
<b>Molecular Biology &amp; Genetics</b>						
Brenig, Bertram	Brenig, Bertram	340170	A 006	Genotyping using FRET on the LightCycler	1.0	Nov 2018
Gruber, Jens	Gruber, Jens	340022	A 068	Mechanisms of RNA silencing	1.0	Nov 2018
Jakobs, Stefan	Jensen, Nickels	340233	A 173	Strategies to design photoswitchable fluorescent proteins and their application in nanoscopy	1.0	16-17 Oct 2018
Cramer Patrick	-	340316	A 214	Genome Science Lecture Series	0.5	Fridays
<b>Cell Biology &amp; Microbiology, Imaging</b>						
Kehlenbach, Ralph	Kehlenbach, Ralph	340081	A 039	Analysis of nucleocytoplasmic transport by flow cytometry	0.5	Jan 2019
Mitkovski, Mišo	Mitkovski, Mišo / Georg Wieser	340066	A 098	Introduction to image processing in biology with ImageJ and FIJI	1.0	25-26 Oct 2018
Nave, Klaus-Armin	Möbius, Wiebke	340222	A 044	Subcellular localization of proteins by immunoelectron microscopy of cryosections	1.0	5-6 Nov 2018

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<b>Cell Biology &amp; Microbiology, Imaging (continued)</b>						
Pöhlmann, Stefan	Pöhlmann, Stefan	350032	A 160	Molecular Biology of HIV replication and pathogenesis	1.0	Wednesdays
Pöhlmann, Stefan	Michael Winkler, Markus Hoffmann, Heike Hofmann-Winkler	340221	A 171	Viral transduction systems	1.0	13-15 Nov 2018
Wouters, Fred	Gertrude Bunt, Fred Wouters	340408	A 220	Bioimage analysis for microscopists	2.5	25 Feb - 1 Mar 2019
Lorenz, Verena	Andrea Braun	340362	A 240	Immunofluorescence of skin cells	1.0	29-30 Nov 2018
Braun, Andrea		340363	A 241	Mouse models in experimental dermatology: contact dermatitis	1.5	12-13 Nov 2018
Rehfeldt, Florian	Hauke, Lara	340221	A 243	Introduction to Quantitative Cell biology for Non-Biologists without Lab Experience	2.5	11-15 Mar 2019
<b>Developmental Biology, Anatomy &amp; Histology</b>						
Bucher, Gregor	Bucher, Gregor	340083	A 145	Orthologs and Paralogs – how they evolve and how to distinguish them	0.5	30 Nov 2018
Pieler, Tomas	Henningfeld, Kristine	340241	A 185	Microinjection in <i>Xenopus</i> embryos	1.0	22-24 Nov 2018
Stadelmann-Nessler, Christine	Stadelmann-Nessler, Christine, Katja Schulz	340033	A 060	Non-radioactive <i>in situ</i> hybridization	1.0	tba
Uhmann, Anja / Hahn, Heidi	Uhmann, Anja, Dominik Botermann	340321	A 217	Culture and immunofluorescence staining of murine pituitary whole mounts	0.5	12 Nov 2018
Uhmann, Anja / Hahn, Heidi	Uhmann, Anja, Nadine Brandes	340323	A 218	Flow cytometric analysis of freshly isolated keratinocytes of adult mice	1.0	14-15 Nov 2018
Ebert, Antje	Ebert, Antje	340320	A 219	Human induced pluripotent stem cells (iPSCs), their differentiation and genomic modification via CRISPR/Cas9	1.0	20-21 Feb 2019
Stadelmann-Nessler, Christine		340345	A 237	Pathology of human neurodegenerative diseases, e.g. Alzheimer's disease, Parkinson's disease, ALS	0.5	tba
Stadelmann-Nessler, Christine		340346	A 238	Pathology of multiple sclerosis and related disorders	0.5	tba
Streckfuß-Bömeke, Katrin		340375	A 239	Patient-specific induced pluripotent stem cells (Ps-iPSCs)	1.0	23-24 Oct 2018
<b>Vertebrate Animal Models</b>						
Bähr, Mathias	Lingor, Paul	340219	A 139	<i>In vitro</i> and <i>in vivo</i> models for Parkinson's disease research	0.5	20 Nov 2018
Wirhns, Oliver	-	340199	A 175	Neurodegenerative Diseases: Behavioral and neuropathological analysis of transgenic mouse models	1.0	28 Feb - 1 Mar 2019

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<b>Molecular &amp; Cellular Neuroscience, Electrophysiology</b>						
Brose, Nils	Erinn Gideons	340236	A 153	Isolation of synaptic compartments for quantitative biochemical analysis	0.5	30 Nov 2018
Pardo, Luis	Pardo, Luis	340040	A 063	Patch clamp	1.0	24-26 Oct 2018
Rhee, JeongSeop	Rhee, JeongSeop	340038	A 096	Nerve cell culture and patch-clamp recordings from nerve cells	1.0	22-23 Oct 2018
Strenzke, Nicola	David Lopez de la Morena	340239	A 193	Single Neuron Recordings from Mouse Auditory Nerve	0.5	2 Oct 2018
Wichmann, Carolin	Chakrabarti, Rituparna	340196	A 149	Basic methods of transmission electron microscopy - from tissue preparation to 3D reconstruction	1.0	Nov 2018
Wojcik, Sonja	-	340379	A 201	Preparation and patch-clamp recording of adrenal chromaffin cells	0.5	11 Jan 2019
Fiala, André	-	340319	A 216	Neuronal circuit dissection in Drosophila	1.0	1-3 Oct 2018
Nova, Mattia	Jean Philippe	340376	A242	Electrophysiological Approaches to Understanding Sensory Processing in the Inner Ear	0.5	1 Oct 2018
Philippe, Jean	Lina Jaime, Özge Öcete	340397	A242_2	Electrophysiological Approaches to Understanding Sensory Processing in the Inner Ear	0.5	3-4 Jan 2019
<b>Theoretical, Systems &amp; Behavioral Neuroscience</b>						
Antal, Andrea	Strenzke, Nicola / Hoch, Gerhard / Nova, Mattia	340054	A 041	Auditory and visual evoked potentials	1.0	Nov 2018
Geisel, Theo / Gollisch, Tim / Gütig, Robert/ Wolf, Fred	Geisel, Theo / Gollisch, Tim / Gütig, Robert/ Wolf, Fred	530170	A 021	Theoretical and Computational Neuroscience: Collective Dynamics Biological Neural Networks I	2.0	Fridays
<b>Structural Biology</b>						
Bennati, Marina	Tomas Orlando, Shu-Hao Liou	340055	A 003	EPR-Spectroscopy	1.5	14-16 Nov 2018
Stark, Holger	Niels Fischer	340378	A 225	Single particle cryo-EM of macromolecular complexes and cellular electron tomography	2.5	10-14 Dec 2018
Güttler, Johannes	Antonio Ibanez	340340	A 231	Introduction to 3D printing: macro and micro scale	1.0	29-30 Oct 2018

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<b>Biophysics, Bioinformatics and Statistics</b>						
Beißbarth, Tim	Florian Auer, Maren Sitte	440727	A 176	Introduction to R and RNA-Seq analysis	1.0	10-12 Oct 2018
Beißbarth, Tim/ Bonn, Stefan / Posnien, Nico	Beißbarth, Tim/ Bonn, Stefan / Posnien, Nico	340208	A 157	Next Generation Sequencing (NGS) – Analysis of RNAseq and ChIP-seq data	1.5	20-22 Nov 2018
Enderlein, Jörg	Thiele, Jan Christoph/ Sharma, Akshita/ Katti, Aditya	340295	A 211	Basics of fluorescence microscopy and spectroscopy in biophysics	0.5	7-8 Feb 2019
Friede, Tim	Röver, Christian	340061	A 100	Basic statistics for graduate students in the life sciences	1.0	15-16 + 18-19 Oct 2018
Godec, Aljaz	Alessio Lapolla	340296	A 212	Advanced Computational Methods in Statistical Mechanics	4.0	Wednesdays
Grubmüller, Helmut / de Groot, Bert	Grubmüller, Helmut / de Groot, Bert	340232	A 143	Theoretical and Computational Biophysics	2.0	Mondays
Grubmüller, Helmut / de Groot, Bert	Helmut Grubmüller, Bert de Groot, Malte Schäffner	340378	A 024	Introduction to Molecular Dynamic Simulations	1.0	March 2019
Grubmüller, Helmut / Schmidt, Christoph F.	Grubmüller, Helmut / Schmidt, Christoph F.	340166	A 025	Current Topics in Biophysics – Lecture Series	1.0	Fridays
Hörandl, Elvira	Appelhans, Marc /Claudia Pätzold	340300	A 190	Reduced-representation NGS methods in phylogenomics and biogeography: RADseq & RNAseq	0.5	1-2 + 4 Oct 2018
Filippo Cosi	Filippo Cosi	340156	A 123	Introduction to Programming in Python	1.5	13-15 Nov 2018
Steinem, Claudia	Andreas Janshoff / Ingo Mey/ Florian Mann	340235	A 169	Atomic Force Microscopy versatile tools to study surfaces and surface properties	1.0	14-15 Jan 2019
Nietert, Manuel	Nietert, Manuel	340317	A 215_1	An introduction to reproducible handling of scientific data and concordant analysis using KNIME workflows	0.5	5-6 Nov 2018
Nietert, Manuel	Nietert, Manuel	340389	A 215_2	An introduction to reproducible handling of scientific data and concordant analysis using KNIME workflows	0.5	10-14 Dec 2018