

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
Biochemistry						
Urlaub, Henning	Alexandra Stützer, Aleksandar Chernev	340201	A 177	Sequence analysis of proteins and their post-translational modifications by electrospray ionization (ESI) mass spectrometry	1.0	7-9 Nov 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
Konrad, Manfred	Konrad, Manfred	340240	A 151	Introduction to steady-state kinetics	1.0	Nov/Dec 2018 (<i>tba</i>)
Rehling, Peter	Kochbeck, Lioba / Poerschke, Sabine	340211	A 163	Native membrane protein complex isolation	0.5	15 Nov 2018
Rehling, Peter	Gomkale, Ridhima	340212	A 164	<i>In vitro</i> import into purified mitochondria	1.0	15-16 Oct 2018
Jahn, Reinhard	Angel Perez-Lara / Pribecevic, Sonja	340255	A 210	Study of membrane binding proteins involved in exocytosis	1.0	29-30 Nov 2018
Ischebeck, Till	Ischebeck, Till	340243	A 198	Metabolite profiling (GC-MS)	1.0	3-4 Dec 2018
Rodnina, Marina	Mercier, Evan	340010	A 081	Introduction to transient kinetic methods	1.0	15-16 Oct 2018
Molecular Biology & Genetics						
Gruber, Jens	Gruber, Jens	340022	A 068	Mechanisms of RNA silencing	1.0	Nov 2018 (<i>tba</i>)
Jakobs, Stefan	Jensen, Nickels	340226	A 173	Strategies to design photoswitchable fluorescent proteins and their application in nanoscopy	1.0	16-17 Oct 2018
Pöhlmann, Stefan	Pöhlmann, Stefan	350032	A 160	Molecular Biology of HIV replication and pathogenesis	1.0	Wednesdays
Hörandl, Elvira	Appelhans, Marc / Pätzold, Claudia	340300	A 190	Reduced-representation NGS methods in phylogenomics and biogeography: RADseq & RNAseq	1.0	1/2/4 Oct 2018
Cramer, Patrick et al.	Cramer, Patrick et al.	340316	A 214	Genome Science Lecture Series	1.0	Fridays
Brenig, Bertram	Brenig, Bertram	340170	A 006	Genotyping using FRET on the LightCycler	1.0	Nov 2018 (<i>tba</i>)

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Cell Biology & Microbiology, Imaging						
Mitkovski, Mišo	Georg Wieser	340066	A 098	Introduction to image processing in biology with ImageJ	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
Pöhlmann, Stefan	Michael Winkler, Markus Hoffmann, Heike Hofmann-Winkler	340221	A 171	Viral transduction systems	1.0	13-15 Nov 2018
Kehlenbach, Ralph	Kehlenbach, Ralph	340081	A 039	Analysis of nucleocytoplasmic transport by flow cytometry	0.5	Jan 2019 (tba)
Developmental Biology, Anatomy & Histology						
Stadelmann-Nessler, Christine	Katja Schulz	340033	A 060	Non-radioactive in situ hybridization	1.0	tba
Eichele, Gregor	Joshi, Parth / Thaller, Christina	340029	A 013	Mouse histology & <i>in situ</i> expression analyses	1.0	tba
Bucher, Gregor	Bucher, Gregor	340083	A 145	Orthologs and Paralogs – how they evolve and how to distinguish them	0.5	30 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
Uhmann, Anja / Hahn, Heidi	Uhmann, Anja / Botermann, Dominik		A 217	Culture and immunofluorescence staining of murine pituitary whole mounts	0.5	12 Nov 2018
Uhmann, Anja / Hahn, Heidi	Uhmann, Anja / Brandes, Nadine		A 218	Flow cytometric analysis of freshly isolated keratinocytes of adult mice	1.0	14-15 Nov 2018
Pieler, Tomas	Henningfeld, Kristine	340241	A 185	Microinjection in <i>Xenopus</i> embryos	1.0	22-24 Nov 2018
Streckfuß-Bömeke, Katrin	Streckfuß-Bömeke, Katrin	340347	A 239	Patient-specific induced pluripotent stem cells (Ps-iPSCs)	1.0	23-24 Oct 2018
Vertebrate Animal Models						
Bähr, Mathias	Lingor, Paul	340219	A 139	In vitro and in vivo models for Parkinson's disease research	0.5	6 Nov 2018
Wirh's, Oliver	Wirh's, Oliver	340199	A 175	Neurodegenerative Diseases: Behavioral and neuropathological analysis of transgenic mouse models	1.0	Jan 2019 (tba)
Molecular & Cellular Neuroscience, Electrophysiology						
Rhee, JeongSeop	Rhee, JeongSeop	340038	A 096	Nerve cell culture and patch-clamp recordings from nerve cells	1.0	22-23 Oct 2018
Pardo, Luis	Pardo, Luis	340040	A 063	Patch clamp	1.0	24-26 Nov 2018
Wichmann, Carolin	Chakrabarti, Rituparna	340196	A 149	Basic methods of transmission electron microscopy - from tissue preparation to 3D reconstruction	1.0	Nov 2018 (tba)

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Molecular & Cellular Neuroscience, Electrophysiology (continued)						
Brose, Nils	Gideons, Erin	340236	A 153	Isolation of synaptic compartments for quantitative biochemical analysis	0.5	<i>tba</i>
Fiala, André	Fiala, André	340319	A 216	Neuronal circuit dissection in <i>Drosophila</i>	1.0	1-3 Oct 2018
Gärtner, Jutta	Susann Diegmann, Annika Wolf	340339	A 233	Next Generation Sequencing to identify the disease gene in unclear neurogenetic disorders	1.0	<i>tba</i>
Theoretical, Systems & Behavioral Neuroscience						
Antal, Andrea / Strenzke, Nicola	Strenzke, Nicola / Hoch, Herhard / Nova, Mattia	340054	A 041	Auditory and visual evoked potentials	1.0	Nov 2018 (<i>tba</i>)
Geisel, Theo / Timme, Marc / Wolf, Fred	Geisel, Theo / Timme, Marc / Wolf, Fred	350036	A 022	Theoretical and Computational Neuroscience: Collective Dynamics of Biological Neural Networks I	2.0	Fridays
Structural Biology						
Bennati, Marina	Tomas Orlando, Shu-Hao Liou	340055	A 003	EPR-Spectroscopy	1.5	14-16 Nov 2018
Stark, Holger	Niels Fischer		A 225	Single particle cryo-EM of macromolecular complexes and cellular electron tomography	2.5	<i>tba</i>
Biophysics, Bioinformatics and Statistics						
Cosi, Filippo	Cosi, Filippo	340156	A 123	Introduction to Programming in Python	1.5	<i>tba</i>
Grubmüller, Helmut / Schmidt, Christoph F.	Grubmüller, Helmut / Schmidt, Christoph F.	340166	A 025	Current Topics in Biophysics – Lecture Series	1.0	Fridays
Grubmüller, Helmut / de Groot, Bert	Grubmüller, Helmut / de Groot, Bert	340227	A 143	Theoretical and Computational Biophysics	1.5	Mondays
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
Beißbarth, Tim	Perera Bel, Julia	440727	A 176	Introduction to R and RNA-Seq analysis	1.0	8-10 Oct 2018
Enderlein, Jörg	Thiele, Jan Christoph / Sharma, Akshita / Katti, Aditya	340295	A 211	Basics of fluorescence microscopy and spectroscopy in biophysics	0.5	<i>tba</i>
Godec, Aljaz	Lapolla, Alessio	340296	A 212	Advanced Computational Methods in Statistical Mechanics	4.0	Wednesdays
Nietert, Manuel	Nietert, Manuel	340317	A 215	An introduction to reproducible handling of scientific data and concordant analysis using KNIME workflows	0.5	<i>tba</i>
Friede, Tim	Röver, Christian	340297	A 100	Basic statistics for graduate students in the life sciences	1.0	19-22 Mar 2019