

## GGNB: Short Methods Courses & Method Seminars October 2017 - March 2018 (B)

Department/Group	Supervisor(s)	UniVZ	ID	Title of Course	Credits	Date B / Winter semester
<b>Biochemistry</b>						
Rodnina, Marina	Holtkamp, Wolf	340010	A 081	Introduction to transient kinetic methods	1.0	16-17 Oct 2017
Tittmann, Kai	Sautner, Viktor	340018	A 064	Principles and methods of protein purification by chromatography	1.0	6-7 Nov 2017
Jahn, Reinhard	Jakhanwal, Shrutee / Witkowska, Agata	340046	A 033	Reconstitution of neuronal exocytosis in a liposome fusion assay	1.0	<i>tba</i>
Tittmann, Kai	Rindfleisch, Sören	340077	A 071	Thermodynamic characterization of biomolecular interactions by isothermal titration calorimetry	1.0	9-10 Nov 2017
Konrad, Manfred	Konrad, Manfred	340200	A 151	Introduction to steady-state kinetics	1.0	<i>tba (Nov/Dec 2017)</i>
Urlaub, Henning	Kuan-Ting Pan, Andreas Linden, Alexander Wulf	340201	A 177	Sequence analysis of proteins and their post-translational modifications by electrospray ionization (ESI) mass spectrometry	1.0	4-6 Oct 2017
Rehling, Peter	Müller, Tobias / Richter, Frank	340211	A 163	Native membrane protein complex isolation	0.5	12 Oct 2017
Ischebeck, Till	Ischebeck, Till	340243	A 198	Metabolite profiling (GC-MS)	1.0	4-5 Dec 2017
Jahn, Reinhard	Angel Perez-Lara, Sonja Pribicevic	340255	A 210	Study of membrane binding proteins involved in exocytosis	1.0	8-9 Nov 2017
Jahn, Reinhard	Momchil Ninov, Marcelo Ganzella	340294	A 209	Principles of subcellular fractionation: Isolation and functional assay of synaptic vesicles and synaptosomes	1.0	26-27 Oct 2017
<b>Molecular Biology &amp; Genetics</b>						
Gruber, Jens	Gruber, Jens	340022	A 068	Mechanisms of RNA silencing	1.0	<i>tba (Nov 2017)</i>
Brenig, Bertram	Schütz, Ekkehard	340170	A 006	Genotyping using FRET on the LightCycler	1.0	<i>tba (Nov 2017)</i>
Cramer, Patrick	Cramer, Patrick et al.	340316	A 214	Genome Science (Lecture Series)	1.0	<i>Fridays, WiSe 2017/18</i>

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<b>Molecular Biology &amp; Genetics (continued)</b>						
Jakobs, Stefan	Jensen, Nickels	340226	A 173	Strategies to design photoswitchable fluorescent proteins and their application in nanoscopy	1.0	17-18 Oct 2017
Pöhlmann, Stefan	Pöhlmann, Stefan	350032	A 160	Molecular Biology of HIV replication and pathogenesis	1.0	Wednesdays, WiSe 2017/18
<b>Cell Biology &amp; Microbiology, Imaging</b>						
Mitkovski, Mišo	Wieder, Georg	340066	A 098	Introduction to image processing in biology with ImageJ	1.0	23-24 Nov 2017
Kehlenbach, Ralph	Kehlenbach, Ralph	340081	A 039	Analysis of nucleocytoplasmic transport by flow cytometry	0.5	17 Jan 2017
Pöhlmann, Stefan	Winkler, Michael / Hofmann-Winkler, Heike / Hoffmann, Markus	340221	A 171	Viral transduction systems	1.0	14-16 Nov 2017
Nave, Klaus-Armin	Möbius, Wiebke	340222	A 044	Subcellular localization of proteins by immunoelectron microscopy of cryosections	1.0	20-21 Nov 2017
Enderlein, Jörg	Qin, Shun	340301	A 213	Digital Image Processing	1.5	16-19 Oct 2017
<b>Developmental Biology, Anatomy &amp; Histology</b>						
Eichele, Gregor	Joshi, Parth / Thaller, Christina	340029	A 013	Mouse histology & <i>in situ</i> expression analyses	1.0	18-19 Jan 2018
Shcherbata, Halyna	Shcherbata, Halyna	340085	A 056	Introduction to basic histology techniques	1.0	14-15 Feb 2018
Pieler, Tomas	Henningfeld, Kristine	340236	A 185	Microinjection in <i>Xenopus</i> embryos	1.0	15-17 Nov 2017
<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	07 Nov 2017
Wirths, Oliver	Wirths, Oliver	340223	A 175	Neurodegenerative Diseases: Behavioral and neuropathological analysis of transgenic mouse models	1.0	<i>tba (Jan 2018)</i>

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<b>Molecular &amp; Cellular Neuroscience, Electrophysiology</b>						
Rhee, JeongSeop	Rhee, JeongSeop	340038	A 096	Nerve cell culture and patch-clamp recordings from nerve cells	1.0	5-6 Oct 2017
Pardo, Luis	Pardo, Luis	340040	A 063	Patch clamp	1.0	<i>tba</i>
Wichmann, Carolin	Chakrabarti, Rituparna	340196	A 149	Basic methods of transmission electron microscopy - from tissue preparation to 3D reconstruction	1.0	<i>tba (Feb 2018)</i>
Brose, Nils	Krüger, Dilja	340236	A 153	Isolation of synaptic compartments for quantitative biochemical analysis	1.0	1 Dec 2017
<b>Theoretical, Systems &amp; Behavioral Neuroscience</b>						
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, WiSe 2017/18
<b>Structural Biology</b>						
Bennati, Marina	Tomas Orlando, Nikolay Enkin, Shu-Hao Liou	340055	A 003	EPR-Spectroscopy	1.5	18-20 Oct 2017
Pena, Vlad	Csaba Kibedi, Jana Schmitzova, Mateusz Mieczkowski	340059	A 102	Crystallization of biological macromolecules	1.0	5-6 Feb 2017
Stark, Holger	Fischer, Niels	340060	A 061	3D structure determination of macromolecular complexes by single particle cryo-EM	1.0	<i>tba</i>
<b>Biophysics, Bioinformatics and Statistics</b>						
Friede, Tim	Röver, Christian	340061	A 100	Basic statistics for graduate students in the life sciences	1.0	23-26 Oct 2017
Steinem, Claudia	Gleisner, Martin / Mey, Ingo, Jonas Schäfer	340067	A 133	Using biosensors to study analyte-ligand interactions: basic principles and applications	0,5	7 Dec 2017
Burg, Thomas P.	Burg, Thomas P.	340135	A 121	Micropatterning and Microfluidics	1.0	<i>tba (Dec 2017)</i>

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<b>Biophysics, Bioinformatics and Statistics (continued)</b>						
Grubmüller, Helmut / Schmidt, Christoph F.	Grubmüller, Helmut / Schmidt, Christoph F.	340166	A 025	Current Topics in Biophysics – Lecture Series	1.0	Fridays, WiSe 2017/18
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	14-16 Nov 2017
Grubmüller, Helmut / de Groot, Bert	Grubmüller, Helmut / de Groot, Bert	340227	A 143	Theoretical and Computational Biophysics	1.5	Mondays, WiSe 2017/18
Lasser, Jana	Guus Bertens, Torsten Eckstein, Filippo Cosi	340156	A 123	Introduction to Programming in Python	2.0	16-18 Oct 2017
Steinem, Claudia / Janshoff, Andreas	Mey, Ingo	340235	A 169	Atomic Force Microscopy vs. Scanning Ion Conductance Microscopy; versatile tools to study surfaces and surface properties	1.0	13-14 Mar 2018
Hörandl, Elvira	Appelhans, Marc	340246	A 189	Next generation sequencing: Methods, Data Analysis and Applications	0.5	26 Sep 2017
Hörandl, Elvira	Appelhans, Marc	340247	A 188	Introduction into the bioinformatic analysis of next generation sequence data	1	27-29 Sep 2017
Rizzoli, Silvio	Truckenbrodt, Sven	340251	A 207	Expansion microscopy	1.0	23 -25 Oct 2017
Goehring, Lucas	Lucas Goehring/ Soumyajyoti Biswas	340252	A 208	Programming and simulations in C	1.0	25-27 Oct 2017
Manik, Debsankha / Lasser, Jana	Manik, Debsankha / Lasser, Jana	340261	A 200	Introduction to Data Science	3.0	19-23 Feb 2017
Enderlein, Jörg	Ghosh, Arindam / Isbaner, Sebastian	340295	A 211	Basics of fluorescence microscopy and spectroscopy in biophysics	1.0	2-3 Nov 2017
Godec, Aljaz	Hartich, David	340296	A 212	Advanced Computational Methods in Statistical Mechanics	4.0	Wednesdays, WiSe 2017/18
Hörandl, Elvira	Appelhans, Marc	340300	A 190	Reduced-representation NGS methods in phylogenomics and biogeography: RADseq & RNAseq	0.5	2 Oct 2017

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<b>Biophysics, Bioinformatics and Statistics (continued)</b>						
Beißbarth, Tim	Perera Bel, Julia	440727	A 176	Introduction to R and RNA-Seq analysis	1.0	8-10 Nov 2017
Nietert, Manuel	Nietert, Manuel	340317	A 215	An introduction to reproducibly handling of scientific data and concordant analysis using KNIME workflows	0.5	11-12 December 2017