

## GGNB: Short Methods Courses & Method Seminars; Extended Methods Courses April - September 2017 (A)

\* course will also be offered in the next course announcement (October 2017 - March 2018)

Department/Group	Supervisor(s)	UniVZ	ID	*	Title of Course	Credits	Date
<b>Biochemistry</b>							
Tittmann, Kai	Sautner, Viktor	340018	A 064		Principles and methods of protein purification by chromatography	1.0	3-4 Apr 2017
Feußner, Ivo	Herrfurth, Cornelia	340045	A 016		Introduction to lipid analysis	1.0	11-13 Sep 2017
Jahn, Reinhard	Jakhanwal, Shrutee; Witkowska, Agata	340046	A 033		Reconstitution of neuronal exocytosis in a liposome fusion assay	1.0	<i>tba</i>
Rehling, Peter	Alexander Schendzielorz; Naumenko, Nataliia	340074	A 053		Blue-native PAGE analysis of membrane protein complexes	1.0	8-9 May 2017
Tittmann, Kai	Tietzel, Michael / Sören Rindfleisch / Viktor Sautner	340077	A 071		Thermodynamic characterization of biomolecular interactions by isothermal titration calorimetry	1.0	6-7 Apr 2017
Jahn, Reinhard	Angel Perez-Lara, Partho Halder	340171	A 146		Reconstitution of membrane fusion by proteoliposomes	1.0	<i>tba</i>
Kawabe, Hiroshi	Manuela Schwark, Öykum Kaplan	340205	A 179		In vivo gene induction in cortical neurons by in utero electroporation	0.5	3-4 Apr 2017
Rehling, Peter	Tobias Müller, Frank Richter	340211	A 163		Native membrane protein complex isolation	0.5	6 Apr 2017
Rehling, Peter	Naumenko, Nataliia / Cong Wang	340212	A 164		In vitro import into purified mitochondria	1.0	1-2 Jun 2017
Konrad, Manfred	Konrad, Manfred	340240	A 151		Introduction to steady-state kinetics	1.0	May 2017 ( <i>tba</i> )
<b>Molecular Biology &amp; Genetics</b>							
Gruber, Jens	Gruber, Jens	340022	A 068	*	Mechanisms of RNA silencing	1.0	May 2017 ( <i>tba</i> )
Fischer, André	Stefan Irniger, Cemil Kerimoglu, Sakib Sadman	340218	A 084	*	Chromatin-immunoprecipitation and epigenomic gene-profiling in the adult brain	1.0	26-28 Jun 2017
Jakobs, Stefan	Jensen, Nickels	340226	A 173	*	Strategies to design photoswitchable fluorescent proteins and their application in nanoscopy	1.0	4-5 Apr 2017
Hörandl, Elvira	Hojsgaard, Diego	340244	A 194		Plant molecular markers overview	1.0	3-5 May 2017
Hörandl, Elvira	Hojsgaard, Diego	340245	A 195		AFLP Fingerprinting techniques in plant biology	1.0	3-5 May 2017
Reisinger, Ellen	Al-Moyed, Hanan; Cepeda, Andreia	340265	A 204		Finding new protein interaction partners via Co-immunoprecipitation	2.0	15-18 May 2017

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<b>Molecular Biology &amp; Genetics (continued)</b>							
Stassart, Ruth	Mott, Andrea	340267	A 206	*	qRT-PCR: assay design, practice and analysis	0.5	11 May 2017
Pöhlmann, Stefan	Pöhlmann, Stefan	350031	A 159		Emerging viral infections	0.5	Thursdays
Pöhlmann, Stefan	Pöhlmann, Stefan	350032	A 160		Molecular Biology of HIV replication and pathogenesis	1.0	Wednesdays
<b>Cell Biology &amp; Microbiology, Imaging</b>							
Großhans, Jörg	Deqing Kong	340163	A 124		Live imaging and laser ablation	1.0	14-15 Aug 2016
Frahm, Jens	Jakob Klosowski, Jost Kollmeier	340210	A 162		Basic principles of MRI and Real-Time MRI	1.0	17-18 May 2017
Pöhlmann, Stefan	Michael Winkler, Markus Hoffmann, Heike Hofmann-	340221	A 171	*	Viral transduction systems	1.0	25-27 Apr 2017
Nave, Klaus-Armin	Möbius, Wiebke	340222	A 044	*	Subcellular localization of proteins by immunoelectron microscopy of cryosections	1.0	15-16 May 2017
<b>Developmental Biology, Anatomy &amp; Histology</b>							
Eichele, Gregor	Joshi, Parth; Thaller, Christina	340029	A 013	*	Mouse histology & in situ expression analyses	1.0	8-9 Jun 2017
Stadelmann-Nessler, Christine	Katja Schulz	340033	A 060	*	Non-radioactive in situ hybridization	1.0	<i>tba</i>
Bucher, Gregor	Bucher, Gregor	340083	A 145	*	Orthologs and Paralogs – how they evolve and how to distinguish them	0.5	5 Apr 2017
Hahn, Heidi	Pyczek, Joanna	340084	A 028		In situ hybridization of paraffin embedded tissue sections	1.0	22-25 May 2017
Shcherbata, Halyna	Shcherbata, Halyna	340085	A 056	*	Introduction to basic histology techniques	1.0	24-28 Apr 2017
Dobbelstein, Matthias	Lizé, Muriel	340220	A 181		Mouse preparation with emphasis on the respiratory tract	1.0	<i>tba</i>
<b>Vertebrate Animal Models</b>							
Wirths, Oliver	Wirths, Oliver	340199	A 175	*	Neurodegenerative Diseases: Behavioral and neuropathological analysis of transgenic mouse models	1.0	Sep 2017 ( <i>tba</i> )
Bähr, Mathias	Lingor, Paul	340219	A 139	*	In vitro and in vivo models for Parkinson's disease research	0.5	4 Apr 2017

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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	6-7 Apr 2016
Rizzoli, Silvio	Manuel Maidorn, Katharina Richter, Katharina Seitz, Sinem Sertel	340039	A 089		High resolution microscopy and novel probes to study the physiology of synapses	1.0	6-7 Apr 2017
Stühmer, Walter	Pardo, Luis	340040	A 063	*	Patch clamp	1.0	<i>tba</i>
Fiala, André / Göpfert, Martin	Riemensperger, Thomas / Geurten, Bart	340087	A 083	*	Drosophila Neurogenetics	1.0	24-26 May 2017
Gollisch, Tim	Helene Schreyer, Mohammad Khani	340185	A 140		Multielectrode Array Recordings from the Retina	1.0	3-5 Apr 2017
Moser, Tobias	Wichmann, Carolin / Chakrabarti, Rituparna	340196	A 149	*	Basic methods of transmission electron microscopy - from tissue preparation to 3D reconstruction	1.0	June 2017 ( <i>tba</i> )
Wojcik, Sonja	Wojcik, Sonja	340263	A 201	*	Preparation of acute adrenal gland slices	0.5	16 Jun 2017
Reisinger, Ellen	Al-Moyed, Hanan; Cepeda, Andreia	340264	A 203		Biolistic transfection as an alternative gene delivery tool	2.0	30 May-2 Jun 2017
Stassart, Ruth	Schuetza, Vlad	340266	A 205	*	Electroneurography: principles and practice	0.5	8 May 2017
<b>Theoretical, Systems &amp; Behavioral Neuroscience</b>							
Gail, Alexander	Glaser, Beatrix	340043	A 073		Introduction to Matlab in Systems Neuroscience	1.0	between 12 Apr and 24 May 2017
Ehrenreich, Hannelore	Begemann, Martin / Bartels, Claudia	340137	A 012		Translational Neuroscience: Schizophrenia	2.0	9-11 Jun 2017
Treue, Stefan / Gail, Alexander	Treue, Stefan / Gail, Alexander / Clíodhna Quigley	340231	A 168		Visual psychophysics - From theory to experiment	1.0	<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 II	2.0	Fridays
<b>Structural Biology</b>							
Bennati, Marina	Tomas Orlando, Nikolay Enkin, Shu-Hao Liou	340055	A 003	*	EPR-Spectroscopy	1.5	5-7 Apr 2017
Pena, Vlad	Csaba Kibedi, Jana Schmitzova, Mateusz Mieczkowski	340059	A 102	*	Crystallization of biological macromolecules	1.0	4-5 Sep 2017
Stark, Holger	Niels Fischer	340060	A 061	*	3D structure determination of macromolecular complexes by single particle cryo-EM	1.0	<i>tba</i>
Ficner, Ralf	Neumann, Piotr	340130	A 103		X-ray crystallography	2.5	20-25 May 2017

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<b>Biophysics, Bioinformatics and Statistics</b>							
Friede, Tim	Röver, Christian	340061	A 100	*	Basic statistics for graduate students in the life sciences	1.0	3-6 Apr2017
Mitkovski, Mišo	Georg Wieser	340066	A 098	*	Introduction to image processing in biology with ImageJ	1.0	11-12 May 2017
Steinem, Claudia	Ingo Mey, Jonas Schäfer	340067	A 133	*	Using biosensors to study analyte-ligand interactions: basic principles and applications	0.5	1 Jun 2017
Burg, Thomas P.	Burg, Thomas P.	340135	A 121	*	Micro patterning and Microfluidics	1.0	June 2017 ( <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 / Hub,	Grubmüller, Helmut / de Groot, Bert / Hub, Jochen	340204	A 170		Biomolecular Physics and Simulations	1.5	Mondays
Steinem, Claudia	Andreas Janshoff / Ingo Mey, Stefan Nehls / Hannes Witt	340235	A 169	*	Atomic Force Microscopy vs. Scanning Ion Conductance Microscopy; versatile tools to study surfaces and surface properties	1.0	19-20 Sep2017
Gabrielaitis, Mantas; Casadiego, José Luis	Gabrielaitis, Mantas; Casadiego, José Luis	340260	A 199		Mathematical Optimization with MATLAB	1.0	10-12 Apr 2017
Timme, Marc	Manik, Debsankha; Lasser, Jana	340261	A 200		Introduction to Data Science	1,0	8-12 May 2017
Datseris, George	Datseris, George	340262	A 202		Jumping Into Julia: A new programming language intended to become the standard for all scientific computing applications	0.5	<i>tba</i>
Beißbarth, Tim	Perera Bel, Julia	440727	A 176	*	Introduction to R and RNA-Seq analysis	1.0	3-5 Apr 2017
<b>Extended Methods Courses</b>							
Tittmann, Kai	Urlaub, Henning	340238	E 002		Bioanalytics	4.0	<i>tba</i>
Stühmer, Walter / Hörner, Michael / Schlüter, Oliver	Stühmer, Walter / Hörner, Michael / Schlüter, Oliver	340095	E 003		ENI Electrophysiology Training (ENI-ELECTRAIN)	4.0	8-19 May 2017