

GGNB: Short Methods Courses & Method Seminars; Extended Methods Courses

Preliminary program October 2020 - March 2021 (winter semester 2020/21)

- subject to change -
- Registration possible two months before the course month -

Department/Group	Supervisor(s)	UniVZ	ID	Title of Course	Credits	Date
Biochemistry						
Feußner, Ivo	Herrfurth, Cornelia	340045	A 016	Introduction to lipid analysis	1.5	8-10 Mar 2021
Jahn, Reinhard	Angel Perez-Lara, Sonja Pribicevic	340255	A 210	Study of membrane binding proteins involved in exocytosis	1.0	4-5 Nov 2020
Katschinski, Dörthe	Maithily Nanadikar	340340	A 234	Using biosensors to study cellular redox processes	0.5	13 Oct 2020
Rehling, Peter	Bettina Homberg, Sabine Poerschke	340211	A 163	Native membrane protein complex isolation	0.5	9 Nov 2020
Rehling, Peter	Ridhima Gomkale, Roya Yousefi	340212	A 164	<i>In vitro</i> import into purified mitochondria	1.0	5-6 Nov 2020
Rodnina, Marina	Mercier, Evan	340010	A 081	Introduction to transient kinetic methods	1.0	8-9 Oct 2020
Tittmann, Kai	Nora Eulig, Fabian Rabe v. Pappenheim	340018	A 064	Principles and methods of protein purification by chromatography	1.0	8-9 Oct 2020
Tittmann, Kai	Sabin Prajapati	340077	A 071	Thermodynamic characterization of biomolecular interactions by isothermal titration calorimetry	1.0	15-16 Oct 2020
Molecular Biology & Genetics						
Cramer, Patrick	-	340316	A 214	Lecture Series "Genome Science I"	0.5	Fridays
Jakobs, Stefan	Daniel Jans	340459	A 260	STED nanoscopy and immunolabeling	1.0	13-14 Oct 2020
Jakobs, Stefan	Jensen, Nickels	340461	A 261	Live-cell nanoscopy with (photomodulatable) fluorescent proteins	1.0	7-8 Oct 2020
de Vries, Jan	-	340462	A 262	Gene Family Analysis	1.0	Feb 2021

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Cell Biology & Microbiology, Imaging						
Mitkovski, Mišo	Mitkovski, Mišo / Georg Wieser	340066	A 098	Introduction to image processing in biology with ImageJ and FIJI	1.5	21-23 Oct 2020
Nave, Klaus-Armin	Möbius, Wiebke	340222	A 044	Subcellular localization of proteins by immunoelectron microscopy of cryosections	1.0	8-9 Oct 2020
Pöhlmann, Stefan	-	350052	A 160	Molecular Biology of HIV replication and pathogenesis	1.0	tba
Pöhlmann, Stefan	Michael Winkler, Markus Hoffmann, Heike Hofmann-Winkler	340221	A 171	Viral transduction systems	1.5	10-12 Nov 2020
Roos, Christian	Angela Noll	340322	A 221	NGS-based identification of gastrointestinal parasites	1.0	2-3 Nov 2020
Roos, Christian	Angela Noll	340323	A 222	Assessing biodiversity: Investigating the blood meal of leeches	1.0	9-10 Nov 2020
Roos, Christian	Angela Noll	340324	A 223	NGS-based identification of the gut microbiome	1.0	16-17 Nov 2020
Wouters, Fred	Gertrude Bunt, Fred Wouters	340002	A 220	Bioimage analysis for microscopists	1.0	tba
Richter-Dennerlein, Ricarda	Elisa Hanitsch, Franziska Nadler	340415	A 246	Investigating macromolecular complexes by density gradient centrifugation	1.0	22-23 Oct 2020
Enderlein, Jörg	Jang Hongje	340454	A 255	Sample preparation and image analysis for 3D fluorescence microscopy of living cells	1.0	3-4 Nov 2020
Developmental Biology, Anatomy & Histology						
Ebert, Antje	-	340320	A 219	Human induced pluripotent stem cells (iPSCs), their differentiation and genomic modification via CRISPR/Cas9	1.0	16-17 Mar 2021

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Vertebrate Animal Models						
Wirths, Oliver	-	340199	A 175	Neurodegenerative Diseases: Behavioral and neuropathological analysis of transgenic mouse models	1.0	Jan 2021 (tba)
Molecular & Cellular Neuroscience, Electrophysiology						
Fiala, André	Annekathrin Widmann	340319	A 216	Neuronal circuit dissection in Drosophila	1.5	7-9 Oct 2020
Gärtner, Jutta	Susann Diegmann, Kolja Meier	340456	A 233	Next Generation Sequencing to identify the disease gene in unclear neurogenetic disorders	1.0	Mar 2021
Pardo, Luis	Walter Stühmer	340040	A 063	Patch clamp	1.5	14-16 Oct 2020
Rhee, Jeong Seop	-	340038	A 096	Nerve cell culture and patch-clamp recordings from nerve cells	1.0	8-9 Oct 2020
Wichmann, Carolin	Anika Hintze	340196	A 149	Basic methods of transmission electron microscopy - from tissue preparation to 3D reconstruction	1.0	Nov 2020
Theoretical, Systems & Behavioral Neuroscience						
Antal, Andrea	Strenzke, Nicola / Hoch, Gerhard	340054	A 041	Auditory and visual evoked potentials	1.0	tba
Wolf, Fred/ Priesemann, Viola	Wolf, Fred/ Priesemann, Viola	530170	A 021	Theoretical and Computational Neuroscience: Collective Dynamics Biological Neural Networks I	2.0	Fridays
Structural Biology						
Bennati, Marina	Tomas Orlando, Igor Tkach	340055	A 003	EPR-Spectroscopy	1.5	24-26 Feb 2021
Stark, Holger	Niels Fischer	340378	A 225	Single particle cryo-EM of macromolecular complexes and cellular electron tomography	2.5	Nov-Dec 2020 (tba)

Biophysics, Bioinformatics and Statistics						
Beißbarth, Tim	Hryhorii Chereda, Manasa Kalya Purushothama	440727	A 176	Introduction to R and RNA-Seq analysis	1.5	14-16 Oct 2020
Beißbarth, Tim/ Maksims Fiosins/ Posnien, Nico	Beißbarth, Tim/ Maksims Fiosins/ Posnien, Nico	340208	A 157	Next Generation Sequencing (NGS) – Analysis of RNAseq and ChIP-seq data	1.5	24-26 Nov 2020
Friede, Tim	Röver, Christian	340061	A 100	Basic statistics for graduate students in the life sciences - an introduction using R	1.0	26. Oct-17. Nov 2020
Godec, Aljaz	Kristian Blom	340296	A 212	Advanced 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 / Enderlein, Jörg	Grubmüller, Helmut / Enderlein, Jörg	340166	A 025	Current Topics in Biophysics – Lecture Series	1.0	Fridays
Grubmüller, Helmut / de Groot, Bert	Grubmüller, Helmut / de Groot, Bert	340387	A 024	Introduction to Molecular Dynamic Simulations	1.0	Feb-Mar 2021
Steinem, Claudia	Dominik Ruppelt, Merve Sari, Ingo Mey	340067	A 133	Using biosensors to study analyte-ligand interactions: basic principles and applications	0.5	1 Feb 2021
Steinem, Claudia	Andreas Janshoff / Ingo Mey	340235	A 169	Atomic Force Microscopy versatile tools to study surfaces and surface properties	0.5	5 Mar 2021
Stephens, Dwayne	Robert Mettin	340439	A 251	Introduction to COMSOL	1.0	22-23 Oct 2020
Jeschke, Markus	-	340464	A 265	Develop and customize hardware for your experiments – an introduction to microcontrollers	1.5	19-21 Oct 2020
Nietert, Manuel	-	340317	A 215_1	An introduction to reproducible handling of scientific data and concordant analysis using KNIME workflows	0.5	tba
Nietert, Manuel	-	340389	A 215_2	An introduction to reproducible handling of scientific data and concordant analysis using KNIME workflows	0.5	tba