

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

Program October 2021 - March 2022 (winter semester 2021/22)

- Registration possible two months before the course month -

[Link to Uni-VZ](#)

IMPORTANT:

1) Check the detailed course descriptions in UniVZ or Stud.IP before signing up as some courses require pre-work / follow-up work or have an unusual duration! 2) Participation is binding. Cancellation is only possible via the GGNB Office with a) sick certificate, or b) statement by supervisor. If you do not provide this, you will be excluded from courses for the next 12 months, as well as travel grants and other financial support.

By signing up you agree (1) to carefully check whether you will be able to attend the course (do not register for 2 courses taking place on the same dates), (2) to frequently check your student e-mail account, as all information on courses will exclusively be sent to that account; (3) that your name and e-mail address may be forwarded to the course instructor(s) for communication before and after the course.

Department/Group	Supervisor(s)	UniVZ	ID	Title of Course	Credits	Status	Date
Biochemistry							
Tittmann, Kai	Fabian Rabe v. Pappenheim	340018	A 064	Principles and methods of protein purification by chromatography	1.0	Presence	11-12 Oct 2021
Tittmann, Kai	Sabin Prajapati	340077	A 071	Thermodynamic characterization of biomolecular interactions by isothermal titration calorimetry	1.0	Presence	14-15 Oct 2021
Katschinski, Dörthe	Ana Maria Vergel Leon	340340	A 234	Using biosensors to study cellular redox processes	0.5	Presence	13 Jan 2022
Feußner, Ivo	Herrfurth, Cornelia	340045	A 016	Introduction to lipid analysis	1.5	Presence	7-9 Mar 2022
Ischebeck, Till	Ischebeck, Till	340243	A 198	Metabolite profiling (GC-MS)	1.0	tba	6-7 Dec 2021
Rehling, Peter	Rehling, Peter	340074	A 053	Blue-native PAGE analysis of membrane protein complexes	1.0	tba	tba
Rehling, Peter	Bettina Homborg , Sabine Poerschke	340211	A 163	Native membrane protein complex isolation	0.5	tba	tba
Rehling, Peter	Ridhima Gomkale, Roya Yousefi	340212	A 164	<i>In vitro</i> import into purified mitochondria	1	tba	tba
Rodnina, Marina	Mercier, Evan	340010	A 081	Introduction to transient kinetic methods	1.0	Presence	7-8 Oct 2021

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Molecular Biology & Genetics							
Cramer, Patrick	Cramer, Patrick	340316	A 214	Lecture Series "Genome Science I"	0.5	ONLINE	Fridays, start: 29 Oct 2021
Jakobs, Stefan	Daniel Jans	340459	A 260	STED nanoscopy and immunolabeling	1.0	tba	19-20 Oct 2021
de Vries, Jan	de Vries, Jan, Dr. Iker Irisarri, Amra Dhabalia Ashok	340462	A 262	Gene Family Analysis	1.0	ONLINE	10-11 Feb 2022
Jakobs, Stefan	Jensen, Nickels	340461	A 261	Live-cell nanoscopy with (photomodulatable) fluorescent proteins	1.0	tba	12-13 Oct 2021
Pöhlmann, Stefan	Pöhlmann, Stefan	350052	A 160	Molecular Biology of HIV replication and pathogenesis	1.0	ONLINE	Thursdays start: 28 Oct 2021
Pöhlmann, Stefan	Michael Winkler, Markus Hoffmann, Heike Hofmann- Winkler	340221	A 171	Viral transduction systems	1.5	Presence	9-11 Nov 2021
Ulaganathan, Vijay	Ulaganathan, Vijay	340500	A 278	Individualized Approach to Cell Surface Proteins for Precision Medicine	1.5	ONLINE	6-8 Oct 2021
Cell Biology & Microbiology, Imaging							
Richter-Dennerlein, Ricarda	Franziska Nadler, Marleen Heinrichs, Venkatapathi Challa	340415	A 246	Investigating macromolecular complexes by density gradient centrifugation	1.0	tba	5-6 Oct 2021
Steinem, Claudia, Conrad, Heike		340496	A 276	Hertha Sponer College Lecture Series	0.5	ONLINE	every other Tuesday; registration via heike.conrad@med.uni-goettingen.de
Enderlein, Jörg, Tsukanov, Roman	Nazar Oleksiievets	340406	A 244	Super-resolution microscopy with DNA-PAINT_and STORM	1.0	ONLINE	11-12 Nov 2021
Mitkovski, Mišo	Mitkovski, Mišo	340066	A 098	Introduction to image processing in biology with ImageJ and FIJI	1.5	ONLINE	6-8 Oct 2021

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Cell Biology & Microbiology, Imaging							
Roos, Christian	Liye Zhang	340322	A 221	Tracing demographic histories from NGS data	1.0	ONLINE	8-9 Nov 2021
Roos, Christian	Liye Zhang	340323	A 222	Tracing selective sweeps in NGS data	1.0	ONLINE	15-16 Nov 2021
Brocher, Jan		340522	A 280	Processing and analyses of scientific images	1,0	ONLINE	13-15 Dec 2021
Zimmermann, Wolfram-Hubertus	Branimir Berecic, Dr. Malte Tiburcy	340342	A 236	Construction and Phenotyping of Engineered Heart Muscle	1,5	tba	15 March 2022
Hell, Stefan	Angel Cereceda Delgado, Clara-Marie Gürth, Victor Macarrón Palacios, Shalini Pradhan	340537	A 283	Introduction to Optical Nanoscopy for Biologists	2.0	ONLINE	3-8 March 2022
Nave, Klaus-Armin	Möbius, Wiebke	340222	A 044	Subcellular localization of proteins by immunoelectron microscopy of cryosections	1.0	tba	7-8 Oct 2021
Developmental Biology, Anatomy & Histology							
Ebert, Antje	Ebert, Antje	340320	A 219	Human induced pluripotent stem cells (iPSCs), their differentiation and genomic modification via CRISPR/Cas9	1.0	tba	Feb/Mar 2022
Molecular & Cellular Neuroscience, Electrophysiology							
Fiala, André	Annekathrin Widmann	340319	A 216	Neuronal circuit dissection in <i>Drosophila</i>	1.5	tba	4-6 Oct 2021
Pardo, Luis	Walter Stühmer	340040	A 063	Patch clamp	1.5	tba	tba
Rhee, Jeong Seop	Rhee, Jeong Seop	340038	A 096	Nerve cell culture and patch-clamp recordings from nerve cells	1.0	tba	7-8 Oct 2021
Wichmann, Carolin	Anika Hintze	340196	A 149	Basic methods of transmission electron microscopy - from tissue preparation to 3D reconstruction	1.0	Presence	Feb 2022
Gärtner, Jutta	Susann Diegmann, Kolja Meier	340456	A 233	Next Generation Sequencing to identify the disease gene in unclear neurogenetic disorders	1.0	tba	24-25 Nov 2021

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Theoretical, Systems & Behavioral Neuroscience							
Wolf, Fred/ Michael Wibral, Tim Gollisch	Wolf, Fred/ Michael Wibral, Tim Gollisch	530170	A 021	Theoretical and Computational Neuroscience: Collective Dynamics of Biological Neural Networks I	2.0	ONLINE	Fridays, start: 29 Oct 2021 registration via christina.vonbehren@uni-goettingen.de
Structural Biology							
Bennati, Marina	Tomas Orlando, Igor Tkach	340055	A 003	EPR-Spectroscopy	1.5	tba	Feb 2022
Biophysics, Bioinformatics and Statistics							
Beißbarth, Tim	Karly Conrads, Jingyu Yang	440727	A 176	Introduction to R and RNA-Seq analysis	1.5	tba	20-22 Oct 2021
Friede, Tim	Röver, Christian	340061	A 100	Basic statistics for graduate students in the life sciences - an introduction using R	1.0	ONLINE	3-24 Nov 2021
Karpitschka, Stefan	Karpitschka, Stefan	340013	A 253	Microfabrication techniques for Microfluidics	1.0	tba	11-12 Oct 2021
Nietert, Manuel	Nietert, Manuel	340317	A 215_1	Data wrangling with KNIME - An introduction to reproducible handling of scientific data and concordant analysis	0.5	ONLINE	Nov 2021
Nietert, Manuel	Nietert, Manuel	340389	A 215_2	Data wrangling with KNIME - An introduction to reproducible handling of scientific data and concordant analysis	0.5	ONLINE	Nov 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	tba	4 Mar 2022
Steinem, Claudia	Ingo Mey / Jonathan Bodenschatz	340235	A 169	Atomic Force Microscopy versatile tools to study surfaces and surface properties	0.5	tba	tba

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Biophysics, Bioinformatics and Statistics							
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	Presence	18, 19, 22 Nov 2021
Grubmüller, Helmut / de Groot, Bert	Helmut Grubmüller, Bert de Groot	340387	A 024	Introduction to Molecular Dynamic Simulations	1.0	tba	March 2022
Grubmüller, Helmut / de Groot, Bert	Grubmüller, Helmut / de Groot, Bert	340232	A 143	Theoretical and Computational Biophysics	2,0	Presence	Mondays, start: 25 Oct 2021
de Groot, Bert/ Wörgötter Florentin	de Groot, Bert/ Wörgötter Florentin	340166	A 025	Current Topics in Biophysics and Complex Systems – Lecture Series	1.0	ONLINE	Fridays, start: 22 Oct 2021
Jeschke , Markus	Jeschke , Markus	340464	A 265	Develop and customize hardware for your experiments – an introduction to microcontrollers	1.5	Presence	13-15 Oct 2021
Mundry, Roger	Mundry, Roger	340502	A 279	Data simulation for linear models in R	4.0	Presence	1-12 Nov 2021 registration via e-mail teaching_statistics@dpz. eu