

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

Program April - September 2021 (summer semester 2021)

- 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
<b>Biochemistry</b>							
Feußner, Ivo	Feußner, Kirstin	340458	A 259	Introduction in non-targeted metabolomics	1.5	tba	26-28 Apr 2021
Katschinski, Dörthe	Ana Maria Vergel Leon	340340	A 234	Using biosensors to study cellular redox processes	0.5	Presence	13 Sept 2021
Tittmann, Kai	Fabian Rabe v. Pappenheim	340018	A 064	Principles and methods of protein purification by chromatography	1.0	Presence	12-13 Apr 2021
Tittmann, Kai	Sabin Prajapati	340077	A 071	Thermodynamic characterization of biomolecular interactions by isothermal titration calorimetry	1.0	Presence	15-16 Apr 2021
<b>Molecular Biology &amp; Genetics</b>							
Cramer, Patrick	-	340316	A 214	Lecture Series "Genome Science"	0.5	ONLINE	Fridays, start: 16 Apr 2021
Pöhlmann, Stefan	Pöhlmann, Stefan	350052	A 160	Molecular Biology of HIV replication and pathogenesis	1.0	ONLINE	Thursdays start: 15 Apr 2021
Jakobs, Stefan	Daniel Jans	340459	A 260	STED nanoscopy and immunolabeling	1.0	Presence	4-5 May 2021
Ulaganathan, Vijay	Ulaganathan, Vijay	340500	A 278	Individualized Approach to Cell Surface Proteins for Precision Medicine	1.5	ONLINE	2-4 June 2021

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<b>Cell Biology &amp; Microbiology, Imaging</b>							
Mitkovski, Mišo	Mišo Mitkovski	340066	A 098	Introduction to image processing in biology with ImageJ and FIJI	1.5	ONLINE	19-21 May 2021
Roos, Christian	Liye Zhang	340322	A 221	Tracing demographic histories from NGS data	1.0	ONLINE	10-11 May 2021
Richter-Dennerlein, Ricarda	Franziska Nadler, Marleen Heinrichs, Venkatapathi Challa	340415	A 246	Investigating macromolecular complexes by density gradient centrifugation	1.0	tba	1-2 June 2021
Enderlein, Jörg, Tsukanov, Roman	Nazar Oleksiievets	340406	A 244	Super-resolution microscopy with DNA-PAINT and STORM	1.0	tba	20-21 May 2021
Steinem, Claudia, Conrad, Heike	-	340496	A 276	Hertha Sponer College Lecture Series	0.5	ONLINE	every other Tuesday
Lorenz, Verena / Andrea Braun	Verena Lorenz	340470	A 240_1	Immunohistochemical and immunofluorescence analyses of the skin and skin-derived cells	1.0	tba	14-15 Jun 2021
<b>Molecular &amp; Cellular Neuroscience, Electrophysiology</b>							
Fiala, André	Annekathrin Widmann	340319	A 216	Neuronal circuit dissection in Drosophila	1.5	tba	7-9 Jun 2021
Nave, Klaus-Armin	Möbius, Wiebke	340328	A 228	A practical introduction into electron microscopy	1.0	Presence	31 May-1 June 2021
Pardo, Luis	Walter Stühmer	340040	A 063	Patch clamp	1.5	Presence	22-24 Sep 2021
Rhee, Jeong Seop	-	340038	A 096	Nerve cell culture and patch-clamp recordings from nerve cells	1.0	tba	15-16 Apr 2021
Gärtner, Jutta	Susann Diegmann, Kolja Meier	340456	A 233	Next Generation Sequencing to identify the disease gene in unclear neurogenetic disorders	1.0		23-24 Jun 2021
Wichmann, Carolin	Anika Hintze	340196	A 149	Basic methods of transmission electron microscopy - from tissue preparation to 3D reconstruction	1.0	Presence	summer 2021

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<b>Theoretical, Systems &amp; Behavioral Neuroscience</b>							
Antal, Andrea	Strenzke, Nicola / Hoch, Gerhard	340054	A 041	Auditory and visual evoked potentials	1.0	Presence	16-17 Sept 2021
Wolf, Fred/ Priesemann, Viola	Wolf, Fred/ Priesemann, Viola	350036	A 022	Theoretical and Computational Neuroscience: Collective Dynamics of Biological Neural Networks II	2.0	tba	Fridays, start: 16 Apr 2021 registration via <a href="mailto:christina.vonbehren@uni-goettingen.de">christina.vonbehren@uni-goettingen.de</a>
Gail, Alexander	Drolet, Matthis	340043	A 073	Introduction to Matlab in Systems Neuroscience	1.0	ONLINE	April / May 2021
Treue, Stefan / Gail, Alexander	Treue, Stefan / Gail, Alexander / Cliodhna Quigley	340231	A 168	Visual psychophysics - From theory to experiment	1.0	ONLINE	April 2021
Focke, Niels	van de Velden, Daniel	340494	A 274	Matlab for Neuroscientists	1.0	ONLINE	start: 7 May 2021, 10 times
Vakhrushev, Roman	Vakhrushev, Roman / Manenti, Giorgio, Jessica Antono	340476	A 264	Designing a psychophysical experiment	1.5	tba	14-16 Apr 2021
<b>Structural Biology</b>							
Bennati, Marina	Tomas Orlando, Igor Tkach	340055	A 003	EPR-Spectroscopy	1.5	tba	June 2021
Ficner, Ralf	Neumann, Piotr	340130	A 103	X-ray crystallography	2.5	tba	19-23 Apr 2021
<b>Biophysics, Bioinformatics and Statistics</b>							
Mundry, Roger	-	340497	A 277	Linear models and their application in R (Registration: e-mail to <a href="mailto:statistics_teaching@dpz.eu">statistics_teaching@dpz.eu</a> ; deadline 2 May)	4.5	ONLINE	7-25 June 2021
Beißbarth, Tim	Karly Conrads, Jingyu Yang	440727	A 176	Introduction to R and RNA-Seq analysis	1.5	tba	7-9 Apr 2021
Friede, Tim	Röver, Christian	340061	A 100	Basic statistics for graduate students in the life sciences - an introduction using R	1.0	ONLINE	13 Apr-4 May 2021
Grubmüller, Helmut / de Groot, Bert	Grubmüller, Helmut / de Groot, Bert	340204	A 170	Biomolecular Physics and Simulations	2.0	ONLINE	Mondays, start: 12 Apr 2021
de Groot, Bert / Florentin Wörgötter	de Groot, Bert / Florentin Wörgötter	340166	A 025	Current Topics in Biophysics – Lecture Series	1.0	ONLINE	Fridays, start: 16 Apr 2021
Grubmüller, Helmut / de Groot, Bert	Grubmüller, Helmut / de Groot, Bert	340387	A 024	Introduction to Molecular Dynamic Simulations	1.0	tba	Aug 2021

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Hörandl, Elvira	Appelhans, Marc / Natascha Wagner	340247	A 188	Introduction into the bioinformatic analysis of next generation sequence data	1.5	Presence	8-10 Sept 2021
Hörandl, Elvira	Appelhans, Marc / Natascha Wagner	340300	A 190	Reduced-representation NGS methods in phylogenomics and biogeography: RADseq & RNAseq	1.5	Presence	14-16 Sept 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	ONLINE	17 Sept 2021
Steinem, Claudia	Ingo Mey / Jonathan Bodenschatz	340235	A 169	Atomic Force Microscopy versatile tools to study surfaces and surface properties	0.5	tba	27 Sept 2021
Gollisch, Tim	Yunus Can Erol, Juan Diego Prieto Ramirez, Sören Zapp, Steffen Krüppel	340455	A 258	Introduction to neural data analysis with Python	1.5	ONLINE	10-12 May 2021
Karpitschka, Stefan	Hansol Jeon	340478	A 272	Rheology of viscoelastic liquids and solids	1.0	tba	20-21 Apr 2021
Niertert, Manuel	-	340317	A 215_1	Data wrangling with KNIME - An introduction to reproducible handling of scientific data and concordant analysis	0.5	ONLINE	12-16 Apr 2021
Niertert, Manuel	-	340389	A 215_2	Data wrangling with KNIME - An introduction to reproducible handling of scientific data and concordant analysis	0.5	ONLINE	22-23 Apr 2021
Liepe, Juliane	Sarah Henze, Florian Jochheim	340513	A 275	Introduction to Python	0.5	ONLINE	29 Mar 2021
Liepe, Juliane	Sarah Henze, Florian Jochheim	340479	A 266	Introduction to data science with Python	1.5	ONLINE	30 Mar - 1 Apr 2021