

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

Program April - September 2022 (summer semester 2022)

- 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	9-11 May 2022
Katschinski, Dörthe	Ana Maria Vergel Leon	340340	A 234	Using biosensors to study cellular redox processes	0.5	tba	28 Apr 2022
Tittmann, Kai	Fabian Rabe v. Pappenheim	340018	A 064	Principles and methods of protein purification by chromatography	1.0	Presence	25-26 Apr 2022
Tittmann, Kai	Laura Kirck	340077	A 071	Thermodynamic characterization of biomolecular interactions by isothermal titration calorimetry	1.0	Presence	28-29 Apr 2022
<b>Molecular Biology &amp; Genetics</b>							
Cramer, Patrick	-	340316	A 214	Lecture Series "Genome Science"	0.5	Presence	Fridays, start: 22 Apr 2022
Pöhlmann, Stefan	-	350059	A 160	Molecular Biology of HIV replication and pathogenesis	1.0	ONLINE	Thursdays start: 21 Apr 2022
Pöhlmann, Stefan	Michael Winkler, Markus Hoffmann, Heike Hofmann-Winkler	340221	A 171	Viral transduction systems	1.5	Presence	10-12 May 2022
Jakobs, Stefan	Daniel Jans	340459	A 260	STED nanoscopy and immunolabeling	1.0	Presence	5-6 Apr 2022

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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	11-13 May 2022
Richter-Dennerlein, Ricarda	Marleen Heinrichs, Venkatapathi Challa, Arun Sathyan	340415	A 246	Investigating macromolecular complexes by density gradient centrifugation	1.0	tba	31 May - 1 Jun 2022
Tsukanov, Roman	Nazar Oleksiievets	340406	A 244	Super-resolution microscopy with DNA-PAINT and STORM	1.0	tba	8-9 Jun 2022
Steinem, Claudia, Conrad, Heike	-	340496	A 276	Hertha Sponer College Lecture Series	0.5	ONLINE	every other Tuesday
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	4-8 Apr 2022
N.N. (online self-learning course)	-	340546	A 288	Biobanking - Grundlagen für Theorie und Praxis [in German]	1.5	ONLINE	starting 1 April, duration: 5 weeks (has to be completed by 15 June 2022)
Betz, Timo	Fatemeh Abbasi	340543	A 285	Cell Culture	0.5	Presence	5-6 Apr 2022
Betz, Timo	Fatemeh Abbasi	340544	A 286	Polyacrylamide gel fabrication for cell seeding	0.5	Presence	19-20 Apr 2022
Betz, Timo	Fatemeh Abbasi	340545	A 287	Cell traction force microscopy	0.5	Presence	21-22 Apr 2022

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<b>Molecular &amp; Cellular Neuroscience, Electrophysiology</b>							
Möbius, Wiebke	-	340328	A 228	A practical introduction into electron microscopy	1.0	<b>Presence</b>	4-5 May2022
Pardo, Luis	Walter Stühmer	340040	A 063	Patch clamp	1.5	<b>Presence</b>	20-22 Apr 2022
Rhee, Jeong Seop	-	340038	A 096	Nerve cell culture and patch-clamp recordings from nerve cells	1.0	<b>Presence</b>	21-22 Apr 2022
<b>Molecular &amp; Cellular Neuroscience, Electrophysiology</b>							
Gärtner, Jutta	Susann Diegmann, Kolja Meier	340456	A 233	Next Generation Sequencing to identify the disease gene in unclear neurogenetic disorders	1.0	<b>Presence</b>	1-2 Jun 2022
Wichmann, Carolin	Magdalena Redondo Canales, Loujin Slitin	340196	A 149	Basic methods of transmission electron microscopy - from tissue preparation to 3D reconstruction	1.0	<b>Presence</b>	14-15 June 2022
Milosevic, Ira, Carter, Brett	-	340095	E 003	ENI Electrophysiology Training (ENI-ELECTRAIN)	4.0	<b>Presence</b>	2-13 May 2022
<b>Theoretical, Systems &amp; Behavioral Neuroscience</b>							
Wolf, Fred/ Priesemann, Viola	Wolf, Fred/ Priesemann, Viola	350036	A 022	Theoretical and Computational Neuroscience: Collective Dynamics of Biological Neural Networks II	3.0	<b>ONLINE</b>	Fridays, start: 22 Apr 2022 registration via <a href="mailto:christina.vonbehren@uni-goettingen.de">christina.vonbehren@uni-goettingen.de</a>
Antal, Andrea	-	340056	A 048	Transcranial magnetic- and electrical stimulation	1.5	<b>Presence</b>	27-29 Jul 2022
Gail, Alexander	-	340043	A 073	Introduction to Matlab in Systems Neuroscience	1.0	<b>Presence</b>	Apr/May 2022
Treue, Stefan / Gail, Alexander	Clíodhna Quigley, Schöberl, Tobias	340231	A 168	Visual psychophysics - From theory to experiment	1.0	<b>Presence</b>	Jun/July 2022

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<b>Structural Biology</b>							
Bennati, Marina	Tomas Orlando, Igor Tkach	340055	A 003	EPR-Spectroscopy	0.5	Presence	6-8 July 2022
Ficner, Ralf	Neumann, Piotr	340130	A 103	X-ray crystallography	2.5	Presence	25-29 Apr 2022
<b>Biophysics, Bioinformatics and Statistics</b>							
Mundry, Roger	-	340497	A 277	Linear models and their application in R (Registration: e-mail to statistics_teaching@dpz.eu; deadline 2 May)	4.5	tba	14 Mar - 1 Apr 2022
Beißbarth, Tim	Karly Conrads, Hazal Timucin	440727	A 176	Introduction to R and RNA-Seq analysis	1.5	ONLINE	20-21 Apr 2022
Friede, Tim	Röver, Christian	340061	A 100	Basic statistics for graduate students in the life sciences - an introduction using R	1.0	tba	26 Apr - 17 May 2022
Grubmüller, Helmut / de Groot, Bert	Grubmüller, Helmut / de Groot, Bert	340204	A 170	Biomolecular Physics and Simulations	2.0	Presence	Mondays, start: 18 Apr 2022
de Groot, Bert / Florentin Wörgötter	de Groot, Bert / Florentin Wörgötter	340166	A 025	Current Topics in Biophysics – Lecture Series	1.0	Presence	Fridays, start: 22 Apr 2022
Hörandl, Elvira	Appelhans, Marc / Natascha Wagner	340247	A 188	Introduction into the bioinformatic analysis of next generation sequence data	1.5	Presence	8-10 Aug 2022
Hörandl, Elvira	Appelhans, Marc / Natascha Wagner	340300	A 190	Reduced-representation NGS methods in phylogenomics and biogeography: RADseq & RNAseq	1.5	Presence	15-16 Aug 2022
Steinem, Claudia	Dominik Ruppelt, Merve Sari, Ingo Mey	340067	A 133	Using biosensors to study analyte-ligand interactions: basic principles and applications	0.5	Presence	19 Aug 2022
Steinem, Claudia	Ingo Mey, Amaury Perez Tirado	340235	A 169	Atomic Force Microscopy versatile tools to study surfaces and surface properties	0.5	tba	26 Sep 2022
Gollisch, Tim	Juan Diego Prieto Ramirez, Steffen Nitsche, Shashwat Sridhar, Varsha Ramakrishnan	340455	A 258	Introduction to neural data analysis with Python	1.5	Presence	16-18 May 2022
Karpitschka, Stefan	Hansol Jeon	340478	A 272	Rheology of viscoelastic liquids and solids	1.0	tba	11-12 Apr 2022
Niertert, Manuel	-	340317	A 215	Data wrangling with KNIME - An introduction to reproducible handling of scientific data and concordant analysis	0.5	ONLINE	9-13 May 2022
Jeschke, Markus	-	340464	A 265	Build your own experiments – an introduction to microcontrollers	1.5	Presence	18-20 May 2022
Moser, Tobias	Lakshay Khurana, Lukasz Jablon	340494	A 271	Basic Programming for Absolute Beginners	2.0	ONLINE	26 Apr - 24 May 2022

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<b>Biophysics, Bioinformatics and Statistics</b>							
Ebert, Antje	Xu, Hang	340499	A 282	Introduction to Python for Beginners in Life Sciences	1.0	ONLINE	24-25 May 2022
Rismondo, Jeanine	-	340542	A 290	Sequence data analysis with Geneious	1.0	ONLINE	8-9 June 2022
<b>Vertebrate Animal Models</b>							
Wirths, Oliver	-	340199	A 175	Neurodegenerative Diseases: Behavioral and neuropathological analysis of transgenic mouse	1.0	Presence	July 2022