GGNB: Short Methods Courses & Method Seminars; Extended Methods Courses
Program April - September 2025 (summer semester 2025)
- Registration possible two months before the course month -

Link to EXA

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 (NOT via contacting the trainer directly) with a) sick certificate, or b) statement by supervisor for science reasons. 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. No exceptions.

By signing up you agree (1) to carefully check in advance whether you will be able to attend the course (e.g. do not register for 2 courses taking place on the same dates - the above mentioned sanctions apply!), (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; (4) to complete the course evaluation; (5) inform us if you no longer wish to maintain a waiting list position; (6) that you only receive credits for attending the entire workshop - you will not get partial credits for part-time attendance.

Department/Group	Supervisor(s)	EXA ID	ID	Title of Course	Credits	Status	Date
Molecular Biology & Genetics							
Pöhlmann, Stefan	-	350058	A 160	Molecular Biology of HIV replication and pathogenesis	1.0	**Presence**	Thursdays, starting from 17 Apr 2025
Pöhlmann, Stefan	Michael Winkler, Markus Hoffmann	340221	A 171	Viral transduction systems	1.5	**Presence**	20-22 May 2025
Jakobs, Stefan	Daniel Jans	340459	A 260	STED nanoscopy and immunolabeling	1.0	**Presence**	8-9 Apr 2025
Hörandl, Elvira	Antje Menster	340037	A 304	Evolutionary Genomics of Biodiverse Reproductive Systems	1.0	**Presence**	25 Apr - 4 Jul 2025
Cell Biology & Microbiology, Imaging							
Mitkovski, Mišo	-	340066	A 098	Introduction to image processing in biology with ImageJ and FIJI	1.5	**ONLINE**	9-11 Apr 2025
Roman Tsukanov	Subhartha Sarkar	340406	A 244	Super-resolution microscopy: DNA-PAINT and dSTORM imaging. Fluorescence lifetime single-molecule localization microscopy (FL-SMLM)	1.0	**Hybrid**	26-27 Jun 2025
Richter-Dennerlein, Ricarda	Olga Beine-Golovchuk	340415	A 246	Investigating macromolecular complexes by density gradient centrifugation	1.0	**Presence**	22-23 May 2025
Roos, Christian	Liye Zhang	340322	A 291	Tracing demographic histories from NGS data	1.0	**Presence**	19-20 May 2025
Roos, Christian	Liye Zhang	340323	A 292	Tracing selective sweeps in NGS data	1.0	**Presence**	26-27 May 2025
Steinem, Claudia	Heike Conrad	340496	A 276	Hertha Sponer College lecture series	0.5	**Presence**	monthly, every 2nd Tuesday of a month, registration via **heike.conrad@med.uni-goettingen.de**

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Cell Biology & Microbiology, Imaging							
Online self-learning course	Christina Würtz	340546	A 284	Biobanking - Biospecimen Research Methods	2.0	**ONLINE**	5 May - 15 Jul 2025
Bouter, Yvonne	-	340022	A 301	Translational Imaging in Neurodegenerative Diseases: From Animal Models to Clinical Practice	1.0	**Presence**	**June 2025**
Gregor, Carola	Leonie Tomm	340046	A 305	HSC Course Bioluminescence Imaging	1.0	**Presence**	5-6 Jun 2025
Biochemistry							
Tittmann, Kai	Fabian Rabe v. Pappenheim	340018	A 064	Principles and methods of protein purification by chromatography	1.0	**Presence**	12-13 May 2025
Rehling, Peter	Anusha Valpadashi, Thomas Schöndorf	340211	A 163	Native membrane protein complex isolation	0.5	**Presence**	**tba**
Molecular & Cellular Neuroscience, Electrophysiology							
Pardo, Luis	Walter Stühmer	340040	A 063	Patch clamp	1.5	**Presence**	**tba**
Rhee, Jeong Seop	-	340038	A 096	Nerve cell culture and patch-clamp recordings from nerve cells	1.0	**Presence**	17-18 Apr 2025
Fiala, André	Ismael Fernández Hernández	340319	A 216	Neuronal circuit dissection in Drosophila	1.5	**CANCELLED**	9-11 Apr 2025
Möbius, Wiebke	-	340328	A 228	A practical introduction into electron microscopy	1.0	**Presence**	13-14 May 2025
Gärtner, Jutta	Susann Diegmann, Kolja Meier	340456	A 233	Next Generation Sequencing to identify the disease gene in unclear neurogenetic disorders	1.0	**Presence**	**tba**
Theoretical, Systems & Behavioral Neuroscience							
Wolf, Fred	Priesemann, Viola	350036	A 022	Theoretical and Computational Neuroscience: Collective Dynamics of Biological Neural Networks II	1.0	**Presence**	Fridays, starting from 24 Apr 2025
Antal, Andrea	Strenzke, Nicola / Hoch, Gerhard	340054	A 041	Auditory and visual evoked potentials	1.0	**CANCELLED**	24-25 Apr 2025
Antal, Andrea	-	340056	A 048	Transcranial magnetic- and electrical stimulation	1.0	**CANCELLED**	6 May 2025
Gail, Alexander	-	340043	A 073	Introduction to Matlab in Systems Neuroscience	1.0	**Presence**	23 Apr - 6 Jun 2025
Treue, Stefan / Gail, Alexander	Treue, Stefan / Gail, Alexander / Cliodhna Quigley , Schöberl, Tobias	340231	A 168	Visual psychophysics - From theory to experiment	1.0	**Presence**	20 Jun - 5 Jul 2025
Structural Biology							
Bennati, Marina	Luming Yang, Alexander van der Ham	340055	A 003	EPR-Spectroscopy	1.5	**Presence**	14-16 Apr 2025
Ficner, Ralf	Neumann, Piotr	340130	A 103	X-ray crystallography	2.5	**CANCELLED**	7-11 Apr **OR** 14-18 Apr 2025 (tbd)
Hillen, Hauke	-	340500	A 281	Characterization and quantification of biomolecular int	0.5	**Presence**	**April 2025**

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Biophysics, Bioinformatics and Statistics							
Grubmüller, Helmut / de Groot, Bert	Reinier de Vries, Chenggong Hui	340387	A 024	Introduction to Molecular Dynamic Simulations	1.0	**Presence**	**tba**
de Groot, Bert/ Wörgötter Florentin	-	340166	A 025	Current Topics in Biophysics and Complex Systems – Lecture Series	1.0	**Presence**	Mondays, starting from 14 Apr 2025
Friede, Tim	Röver, Christian	340061	A 100	Basic statistics for graduate students in the life sciences - an introduction using R	1.0	**Presence**	22 Apr - 13 May 2025
Steinem, Claudia	Mira Franke, Amelie Meyer	340067	A 133	Using biosensors to study analyte-ligand interactions: basic principles and applications	0.5	**Presence**	14 May 2025
Janshoff, Andreas	Vanessa Theuer, Tabea Oswald	340235	A 169	Atomic Force Microscopy versatile tools to study surfaces and surface properties	0.5	**Presence**	12 Sep 2025
Grubmüller, Helmut / de Groot, Bert	-	340204	A 170	Biomolecular Physics and Simulations	2.0	**Presence**	Mondays, starting from 14 Apr 2025
Hörandl, Elvira	Natscha Wagner	340247	A 188	Introduction into the bioinformatic analysis of next generation sequence data	1.0	**Presence**	15-17 Sep 2025
Gollisch, Tim	Shashwat Sridhar, Robert Mihai Haret	340455	A 258	Introduction to neural data analysis with Python	1.5	**Presence**	12-14 May 2025
Jeschke , Markus	-	340464	A 265	Build your own experiments with Arduinos	1.5	**Presence**	14-16 May 2025
Rismondo, Jeanine	-	340542	A 290	Working with Geneious - from cloning to sequence data analysis	1.0	**ONLINE**	25-26 Jun 2025
Wulf, Gerald	Kristian Thomson	340632	A 295	Go With the Flow – An Introduction to Flow Cytometry and its Applications in Cancer and Immunology Research	1.0	**Presence**	**tba**
Wibral, Michael	Richard Gao	-	A 307	How to learn from complex data II: simulation-based inference in Physics and Life Sciences	0.5	**Presence**	9-10 Sep 2025
Vertebrate Animal Models							
Wirths, Oliver	-	340199	A 175	Neurodegenerative Diseases: Molecular pathology of Alzheimer's disease and relevant transgenic mouse models	1.0	**CANCELLED**	**July 2025**
Bouter, Yvonne	-	340021	A 300	Animal models of Alzheimer's Disease	1.0	**Presence**	**July 2025**

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Python courses							
The university offers various courses on Python that PhD students may join:							
Wieder, Philip	-	502662	/	Einführung in Python für Data Scientists		Presence	Summer semester
Nobach, Holger	-	536420	/	Programmieren in Python		Presence	Summer semester
Geil, Burkhard	-	570940	/	Computergestützte Datenanalyse		Presence	Summer semester
Gipp, Béla	Lima Ruas, Terry	503496	/	Programming for Data Scientists: Python		Presence	Winter semester