

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

**Program October 2024 - March 2025 (winter semester 2024/25)**

- 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
<b>Biochemistry</b>							
Feußner, Ivo	Herrfurth, Cornelia	340045	A 016	Introduction to lipid analysis	1.0	Presence	3-5 Mar 2025
Tittmann, Kai	Fabian Rabe v. Pappenheim	340018	A 064	Principles and methods of protein purification by chromatography	1.0	Presence	28-29 Oct 2024
Tittmann, Kai	Sabin Prajapati, Rahul Shaha	340077	A 071	Thermodynamic characterization of biomolecular interactions by isothermal titration calorimetry	1.0	Presence	17-18 Oct 2024
Rodnina, Marina	Peske, Frank	340010	A 081	Introduction to transient kinetic methods	1.0	Presence	Oct/Nov 2024
<b>Molecular Biology &amp; Genetics</b>							
Pöhlmann, Stefan	-	350058	A 160	Molecular Biology of HIV replication and pathogenesis	2.0	Presence	Thursdays, starting from 24 Oct 2024
Pöhlmann, Stefan	Michael Winkler, Markus Hoffmann	340221	A 171	Viral transduction systems	1.5	Presence	26-28 Nov 2024
Jakobs, Stefan	Daniel Jans	340459	A 260	STED nanoscopy and immunolabeling	1.0	Presence	15-16 Oct 2024

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<b>Cell Biology &amp; Microbiology, Imaging</b>							
Mitkovski, Mišo	-	340066	A 098	Introduction to image processing in biology with ImageJ and FIJI	1.5	ONLINE	13-15 Nov 2024
Tsukanov, Roman	Samrat Basak	340306	A 244	Super-resolution microscopy with DNA-PAINT and dSTORM. Fluorescence lifetime single-molecule localization microscopy (FL-SMLM)	1.0	Hybrid	tba
Richter-Dennerlein, Ricarda	Marleen Heinrichs, Venkatapathi Challa	340415	A 246	Investigating macromolecular complexes by density gradient centrifugation	1.0	Presence	October 2024
Steinem, Claudia	Heike Conrad	340496	A 276	Hertha Sponer College Lecture Series	0.5	Hybrid	every other Tuesday, registration via <a href="mailto:heike.conrad@med.uni-goettingen.de">heike.conrad@med.uni-goettingen.de</a>
Brocher, Jan	-	340522	A 280	Editing, Processing and analyses of scientific images	1.0	ONLINE	January 2025
Roos, Christian	Liye Zhang, Lakshmi Seshadri	340322	A 291	Tracing demographic histories from NGS data	1.0	Presence	Nov/Dec 2024
Roos, Christian	Liye Zhang, Lakshmi Seshadri	340323	A 292	Tracing selective sweeps in NGS data	1.0	Presence	Nov/Dec 2024
Tsukanov, Roman	Samrat Basak, Subhartha Sarkar	340660	A 297	DNA Nanotechnology: Applications in Super-resolution Microscopy and Beyond	0.5	ONLINE	tba
<b>Molecular &amp; Cellular Neuroscience, Electrophysiology</b>							
Pardo, Luis	Walter Stühmer	340040	A 063	Patch clamp	1.5	Presence	February 2025
Rhee, Jeong Seop	-	340038	A 096	Nerve cell culture and patch-clamp recordings from nerve cells	1.0	Presence	9-10 Oct 2024
Fiala, André	-	340319	A 216	Neuronal circuit dissection in Drosophila	1.5	Presence	23-25 Oct 2024
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
<b>Theoretical, Systems &amp; Behavioral Neuroscience</b>							
Wolf, Fred/ Wibrall, Gollisch	-	530170	A 021	Theoretical and Computational Neuroscience: Collective Dynamics of Biological Neural Networks I	3.0	Presence	Fridays, starting from 25 October 2024
Antal, Andrea	Nicola Strenzke, Gerhard Hoch	340054	A 041	Auditory and visual evoked potentials	1.0	Presence	Sep/Oct 2024
Antal, Andrea	-	340056	A 048	Transcranial magnetic- and electrical stimulation	1.0	Presence	February 2025

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<b>Structural Biology</b>							
Bennati, Marina	Luming Yang, Alexander van der Ham	340055	A 003	EPR-Spectroscopy	1.5	Presence	November 2024
Hillen, Hauke	-	340498	A 281	Characterization and quantification of biomolecular interactions by fluorescence polarization	0.5	Presence	November 2024
<b>Biophysics, Bioinformatics and Statistics</b>							
Grubmüller, Helmut / de Groot, Bert	-	340387	A 024	Introduction to Molecular Dynamic Simulations	1.0	Presence	March 2025
de Groot, Bert/ Wörgötter Florentin	-	340166	A 025	Current Topics in Biophysics and Complex Systems - Lecture Series	1.0	Presence	Mondays, starting from 21 Oct 2024
Friede, Tim	Christian Röver	340061	A 100	Basic statistics for graduate students in the life sciences - an introduction using R	1.0	Presence	5-26 Nov 2024
Steinem, Claudia	Sara Drechsler, Laura Brinkmann	340067	A 133	Using biosensors to study analyte-ligand interactions: basic principles and applications	0.5	Presence	November 2024
Grubmüller, Helmut / de Groot, Bert	-	340232	A 143	Theoretical and Computational Biophysics	2.0	Presence	Mondays, starting from 21 Oct 2024
Beißbarth, Tim/ Maksims Fiosins/ Posnien, Nico	-	340208	A 157	Next Generation Sequencing (NGS) – Analysis of RNAseq and ChIP-seq data	1.5	Presence	13-15 Nov 2024
Janshoff, Andreas	Vanessa Theuer, Tabea Oswald	340235	A 169	Atomic Force Microscopy versatile tools to study surfaces and surface properties	0.5	Presence	21 Mar 2025
Godec, Aljaz	Felipe Pereira Alvez	340296	A 212	Advanced Methods in Statistical Mechanics	4.0	Presence	Tuesdays, starting from 22 Oct 2024
Jeschke, Markus	-	340464	A 265	Build your own experiments with Arduinos	1.5	Presence	October 2024
Mundry, Roger	-	340497	A 279	Data simulation for linear models in R	4.5	Presence	7-25 Oct 2024
Rismondo, Jeanine	-	340542	A 290	Working with Geneious - from cloning to sequence data analysis	1.0	ONLINE	5-6 Feb 2025
<b>Vertebrate Animal Models</b>							
Weber, Martin	Jasmin Ochs	340645	A 296	Animal models of multiple sclerosis	1.0	Presence	11-12 Nov 2024
Weber, Martin	Jasmin Ochs	340650	A 296	Animal models of multiple sclerosis	1.0	Presence	13-14 Jan 2025