

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

Program October 2023 - March 2024 (winter semester 2023/24)

- 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.

Department/Group	Supervisor(s)	EXA ID	ID	Title of Course	Credits	Status	Date
Biochemistry							
Feußner, Ivo	Herrfurth, Cornelia	340045	A 016	Introduction to lipid analysis	1.0	CANCELLED	4-6 Mar 2024
Tittmann, Kai	Fabian Rabe v. Pappenheim, Marie Wensien	340018	A 064	Principles and methods of protein purification by chromatography	1.0	Presence	23-24 Oct 2023
Tittmann, Kai	Sabin Prajapati, Rahul Shaha	340077	A 071	Thermodynamic characterization of biomolecular interactions by isothermal titration calorimetry	1.0	Presence	26-27 Oct 2023
Rodnina, Marina	Peske, Frank	340010	A 081	Introduction to transient kinetic methods	1.0	Presence	14-15 Nov 2023
Rehling, Peter	Anusha Valpadashi , Thomas Schöndorf	340211	A 163	Native membrane protein complex isolation	0.5	Presence	tba
Rehling, Peter	Roya Yousefi, Anusha Valpadashi	340212	A 164	<i>In vitro</i> import into purified mitochondria	1.0	Presence	tba
Molecular Biology & Genetics							
Pöhlmann, Stefan	-	350058	A 160	Molecular Biology of HIV replication and pathogenesis	1.0	Presence	Thursdays, starting from 26 Oct 2023
Pöhlmann, Stefan	Michael Winkler, Markus Hoffmann, Heike Hofmann-Winkler	340221	A 171	Viral transduction systems	1.5	Presence	28-30 Nov 2023
Jakobs, Stefan	Daniel Jans	340459	A 260	STED nanoscopy and immunolabeling	1.0	Presence	17-18 Oct 2023
de Vries, Jan		340462	A 262	Gene Family Analysis	1.0	Presence	22-23 Feb 2024

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Cell Biology & Microbiology, Imaging							
Mitkovski, Mišo	-	340066	A 098	Introduction to image processing in biology with ImageJ and FIJI	1.5	ONLINE	1-3 Nov 2023
Tsukanov, Roman	Samrat Basak	340306	A 244	Super-resolution microscopy with DNA-PAINT and dSTORM. Super-resolution fluorescence lifetime imaging microscopy (SR-FLIM)	1.0	Hybrid	7-8 Dec 2023
Richter-Dennerlein, Ricarda	Marleen Heinrichs, Venkatapathi Challa	340415	A 246	Investigating macromolecular complexes by density gradient centrifugation	1.0	Presence	11-12 Oct 2023
Steinem, Claudia	Heike Conrad	340496	A 276	Hertha Sponer College Lecture Series	0.5	Hybrid	every other Tuesday, registration via heike.conrad@med.uni-goettingen.de
Brocher, Jan	-	340522	A 280	Editing, Processing and analyses of scientific images	1.0	ONLINE	29-31 Jan 2024
Roos, Christian	Liye Zhang, Lakshmi Seshadri	340322	A 291	Tracing demographic histories from NGS data	1.0	Presence	27-28 Nov 2023
Roos, Christian	Liye Zhang, Lakshmi Seshadri	340323	A 292	Tracing selective sweeps in NGS data	1.0	CANCELLED	4-5 Dec 2023
Molecular & Cellular Neuroscience, Electrophysiology							
Pardo, Luis	Walter Stühmer	340040	A 063	Patch clamp	1.5	Presence	October 2023
Rhee, Jeong Seop	-	340038	A 096	Nerve cell culture and patch-clamp recordings from nerve cells	1.0	Presence	7-8 Dec 2023
Wichmann, Carolin	Magdalena Redondo Canales, Loujin Slitin	340196	A 149	Basic methods of transmission electron microscopy - from tissue preparation to 3D reconstruction	1.0	tba	tba
Fiala, André	Annekathrin Widmann	340319	A 216	Neuronal circuit dissection in Drosophila	1.5	Presence	25-27 Oct 2023
Gärtner, Jutta	Susann Diegmann, Kolja Meier	340456	A 233	Next Generation Sequencing to identify the disease gene in unclear neurogenetic disorders	1.0	Presence	26-27 Feb 2024
Theoretical, Systems & Behavioral Neuroscience							
Wolf, Fred/ Wibral, Gollisch	-	530170	A 021	Theoretical and Computational Neuroscience: Collective Dynamics of Biological Neural Networks I	3.0	Presence	Fridays, starting from 27 October 2023
Antal, Andrea	-	340056	A 048	Transcranial magnetic- and electrical stimulation	1.0	CANCELLED	14-15 Nov 2023

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Structural Biology							
Bennati, Marina	Luming Yang, Alexander van der Ham	340055	A 003	EPR-Spectroscopy	1.5	CANCELLED	November 2023
Stark, Holger	-	340378	A 225	Single particle cryo-EM of macromolecular complexes and cellular electron tomography	2.5	Presence	11-15 Dec 2023
Hillen, Hauke	-	340498	A 281	Characterization and quantification of biomolecular interactions by fluorescence polarization	0.5	Presence	November 2023
Biophysics, Bioinformatics and Statistics							
Grubmüller, Helmut / de Groot, Bert	-	340387	A 024	Introduction to Molecular Dynamic Simulations	1.0	Presence	March 2024
de Groot, Bert/ Wörgötter Florentin	-	340166	A 025	Current Topics in Biophysics and Complex Systems - Lecture Series	1.0	Presence	Mondays, starting from 23 Oct 2023
Friede, Tim	Christian Röver	340061	A 100	Basic statistics for graduate students in the life sciences - an introduction using R	1.0	Presence	7-28 Nov 2023
Steinem, Claudia	Tobias Weege, Maximilian Winkler	340067	A 133	Using biosensors to study analyte-ligand interactions: basic principles and applications	0.5	Presence	17 Nov 2023
Grubmüller, Helmut / de Groot, Bert	-	340232	A 143	Theoretical and Computational Biophysics	2.0	Presence	Mondays, starting from 23 Oct 2023
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 2023
Janshoff, Andreas	Vanessa Theuer, Tabea Oswald	340235	A 169	Atomic Force Microscopy versatile tools to study surfaces and surface properties	0.5	Presence	12 Mar 2023
Jeschke, Markus	-	340464	A 265	Build your own experiments with Arduinos	1.5	Presence	tba
Mundry, Roger	-	340497	A 277	Linear models and their application in R	4.5	Presence	4-22 Mar 2024
Rismondo, Jeanine	-	340542	A 290	Working with Geneious - from cloning to sequence data analysis	1.0	ONLINE	17-18 Jan 2024
Jakobs, Stefan	Jan-Niklas Dohrke	340607	A 294	Taking the next step in Python	1.0	Presence	6-7 Nov 2023
Vertebrate Animal Models							
Wirths, Oliver	-	340199	A 175	Neurodegenerative Diseases: Behavioral and neuropathological analysis of transgenic mouse models	1.0	CANCELLED	November 2023
Weber, Martin	Jasmin Ochs	340645	A 296	Animal models of multiple sclerosis	1.0	Presence	15-16 Jan 2024
Weber, Martin	Jasmin Ochs	340650	A 296	Animal models of multiple sclerosis	1.0	Presence	5-6 Feb 2024