

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

Program April - September 2024 (summer semester 2024)

- 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							
Tittmann, Kai	Fabian Rabe v. Pappenheim	340018	A 064	Principles and methods of protein purification by chromatography	1.0	Presence	6-7 May 2024
Molecular Biology & Genetics							
Pöhlmann, Stefan	-	350058	A 160	Molecular Biology of HIV replication and pathogenesis	1.0	Presence	Thursdays, starting from 11 April 2024
Pöhlmann, Stefan	Michael Winkler, Markus Hoffmann, Heike Hofmann-Winkler	340221	A 171	Viral transduction systems	1.5	Presence	16-18 Apr 2024
Jakobs, Stefan	Daniel Jans	340459	A 260	STED nanoscopy and immunolabeling	1.0	Presence	16-17 Apr 2024
Cell Biology & Microbiology, Imaging							
Mitkovski, Mišo	-	340066	A 098	Introduction to image processing in biology with ImageJ and FIJI	1.5	ONLINE	10-12 Apr 2024
Tsukanov, Roman	Samrat Basak	340406	A 244	Super-resolution microscopy with DNA-PAINT and dSTORM. Fluorescence lifetime single-molecule localization microscopy (FL-SMLM)	1.0	Hybrid	30-31 May 2024
Richter-Dennerlein, Ricarda	Marleen Heinrichs, Venkatapathi Challa	340415	A 246	Investigating macromolecular complexes by density gradient centrifugation	1.0	Presence	7-8 May 2024
Roos, Christian	Liye Zhang, Lakshmi Seshadri	340322	A 291	Tracing demographic histories from NGS data	1.0	Presence	13-14 May 2024
Roos, Christian	Liye Zhang, Lakshmi Seshadri	340323	A 292	Tracing selective sweeps in NGS data	1.0	CANCELLED	27-28 May 2024
Tsukanov, Roman	Samrat Basak	340660	A 297	DNA Nanotechnology: Applications in Super-resolution Microscopy and Beyond	0.5	Presence	12 Jun 2024
Steinem, Claudia	Heike Conrad	340496	A 276	Hertha Spöner College lecture series	0.5	Presence	every other Tuesday; registration via heike.conrad@med.uni-goettingen.de

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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	8-9 Apr 2024
Wichmann, Carolin	Julius Bahr	340196	A 149	Basic methods of transmission electron microscopy - from tissue preparation to 3D reconstruction	1.0	Presence	June/July 2024
Fiala, André	-	340319	A 216	Neuronal circuit dissection in Drosophila	1.5	CANCELLED	17-19 Apr 2024
Möbius, Wiebke	-	340328	A 228	A practical introduction into electron microscopy	1.0	Presence	22-23 Apr 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	17-18 Jun 2024
Milosevic, Ira / Carter, Brett	-	340095	E 003	ENI Electrophysiology Training (ENI-ELECTRAIN)	4.0	Presence	27-31 May 2024
Theoretical, Systems & Behavioral Neuroscience							
Wolf, Fred	Priesemann, Viola	350036	A 022	Theoretical and Computational Neuroscience: Collective Dynamics of Biological Neural Networks II	3.0	Presence	Fridays, starting from 12 Apr 2024
Antal, Andrea	Strenzke, Nicola / Hoch, Gerhard	340054	A 041	Auditory and visual evoked potentials	1.0	CANCELLED	April 2024
Antal, Andrea	-	340056	A 048	Transcranial magnetic- and electrical stimulation	1.0	CANCELLED	May 2024
Gail, Alexander	-	340043	A 073	Introduction to Matlab in Systems Neuroscience	1.0	Presence	May/June 2024
Treue, Stefan / Gail, Alexander	Treue, Stefan / Gail, Alexander / Cliodhna Quigley , Schöberl, Tobias	340231	A 168	Visual psychophysics - From theory to experiment	1.0	Presence	June/July 2024
Structural Biology							
Bennati, Marina	Luming Yang, Alexander van der Ham	340055	A 003	EPR-Spectroscopy	1.5	Presence	either 15-17 May OR 29-31 May 2024 (tbd with registered participants)
Ficner, Ralf	Neumann, Piotr	340130	A 103	X-ray crystallography	2.5	CANCELLED	8-12 Apr 2024
Hillen, Hauke	-	340500	A 281	Characterization and quantification of biomolecular ir	0.5	Presence	9 Apr 2024
Biophysics, Bioinformatics and Statistics							
Grubmüller, Helmut / de Groot, Bert	Chengong Hui, Reinier de Vries	340387	A 024	Introduction to Molecular Dynamic Simulations	1.0	Presence	August 2024
de Groot, Bert/ Wörgötter Florentin	de Groot, Bert/ Wörgötter Florentin	340166	A 025	Current Topics in Biophysics and Complex Systems – Lecture Series	1.0	Presence	Mondays, starting from April 2024
Friede, Tim	Röver, Christian	340061	A 100	Basic statistics for graduate students in the life sciences - an introduction using R	1.0	Presence	16 Apr - 7 May 2024
Steinem, Claudia	Sara Drechsler, Laura Brinkmann	340067	A 133	Using biosensors to study analyte-ligand interactions: basic principles and applications	0.5	Presence	19 Apr 2024
Janshoff, Andreas	Amaury Perez Tirado, Tabea Oswald	340235	A 169	Atomic Force Microscopy versatile tools to study surfaces and surface properties	0.5	Presence	13 Sep 2024

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Biophysics, Bioinformatics and Statistics							
Grubmüller, Helmut / de Groot, Bert	-	340204	A 170	Biomolecular Physics and Simulations	2.0	Presence	Mondays, starting from 8 April 2024
Hörandl, Elvira	Natscha Wagner	340247	A 188	Introduction into the bioinformatic analysis of next generation sequence data	1.0	Presence	19-21 Aug 2024
Gollisch, Tim	Shashwat Sridhar, Robert Mihai Haret	340455	A 258	Introduction to neural data analysis with Python	1.5	Presence	24-26 Apr 2024
Jeschke, Markus	-	340464	A 265	Build your own experiments with Arduinos	1.5	Presence	17-19 Apr 2024
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	September 2024
Walter, Lutz	Laura Ahumada Arranz, Charlotte Höltermann	340671	A 298	Bioinformatics of high-throughput NGS: single-cell RNA-seq and Oxford Nanopore third-generation sequencing technologies	1.0	Presence	15-16 May 2024
Großhans, Jörg	Roya Abbaszadeh	340000	A 299	Single-cell RNA-seq Analysis Using Python	2.0	ONLINE	11-14 Jun 2024
Vertebrate Animal Models							
Weber, Martin	Jasmin Ochs	340645	A 296	Animal Models of Multiple Sclerosis I	1.0	Presence	6-7 May 2024
Weber, Martin	Jasmin Ochs	340650	A 296	Animal Models of Multiple Sclerosis II	1.0	Presence	10-11 Jun 2024