

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

Program April - September 2023 (summer semester 2023)

- 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
<b>Biochemistry</b>							
Tittmann, Kai	Fabian Rabe v. Pappenheim, Marie Wensien	340018	A 064	Principles and methods of protein purification by chromatography	1.0	Presence	24-25 Apr 2023
Tittmann, Kai	Sabin Prajapati, Rahul Shaha	340077	A 071	Thermodynamic characterization of biomolecular interactions by isothermal titration calorimetry	1.0	Presence	27-28 Apr 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
<b>Molecular Biology &amp; Genetics</b>							
Pöhlmann, Stefan	Michael Winkler, Markus Hoffmann, Heike Hofmann-Winkler	340221	A 171	Viral transduction systems	1.5	Presence	23-25 May 2023
Jakobs, Stefan	Daniel Jans	340459	A 260	STED nanoscopy and immunolabeling	1.0	Presence	25-26 Apr 2023
<b>Cell Biology &amp; Microbiology, Imaging</b>							
Enderlein, Jörg	Roman Tsukanov	340406	A 244	Super-resolution microscopy with DNA-PAINT_and STORM	1.0	Hybrid	1-2 Jun 2023
Steinem, Claudia, Conrad, Heike		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>
Richter-Dennerlein, Ricarda	Marleen Heinrichs, Venkatapathi Challa	340415	A 246	Investigating macromolecular complexes by density gradient centrifugation	1.0	Presence	14-15 Jun 2023

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<b>Cell Biology &amp; Microbiology, Imaging</b>							
Betz, Timo	Fatemeh Abbasi	340543	A 285	Cell culture methods and Polyacrylamide (PAA) gel fabrication and traction force microscopy	1.5	Presence	18-21 Apr 2023
Roos, Christian	Liye Zhang, Lakshmi Seshadri	340322	A 291	Tracing demographic histories from NGS data	1.0	Presence	8-9 May 2023
Roos, Christian	Liye Zhang, Lakshmi Seshadri	340323	A 292	Tracing selective sweeps in NGS data	1.0	Presence	15-16 'May 2023
<b>Molecular &amp; Cellular Neuroscience, Electrophysiology</b>							
Pardo, Luis	Walter Stühmer	340040	A 063	Patch clamp	1.5	Presence	April 2023
Rhee, Jeong Seop	Rhee, Jeong Seop	340038	A 096	Nerve cell culture and patch-clamp recordings from nerve cells	1.0	Presence	23-24 Mar 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	CANCELLED	19-21 Apr 2023
Möbius, Wiebke		340328	A 228	A practical introduction into electron microscopy	1.0	Presence	3-4 May 2023
Moser, Tobias	Shashank Chepurwar, Anupriya Tri	340565	A 289	Electrophysiology in Mouse Auditory system	1.5	CANCELLED	April 2023
<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	Presence	start: 14 Apr 2023; registration via <a href="mailto:christina.vonbehren@uni-goettingen.de">christina.vonbehren@uni-goettingen.de</a>
Antal, Andrea	Strenzke, Nicola / Hoch, Gerhard	340054	A 041	Auditory and visual evoked potentials	1.0	CANCELLED	April 2023
Antal, Andrea		340056	A 048	Transcranial magnetic- and electrical stimulation	1.0	Presence	13-14 Jun 2023
Gail, Alexander		340043	A 073	Introduction to Matlab in Systems Neuroscience	1.0	Presence	Apr/May 2023
Treue, Stefan / Gail, Alexander	Treue, Stefan / Gail, Alexander / Clodhna Quigley , Schöberl, Tobias	340231	A 168	Visual psychophysics - From theory to experiment	1.0	Presence	Jun/July 2023
<b>Structural Biology</b>							
Bennati, Marina	Luming Yang, Alexander van der Ham	340055	A 003	EPR-Spectroscopy	1.5	CANCELLED	April 2023
Ficner, Ralf	Neumann, Piotr	340130	A 103	X-ray crystallography	2.5	CANCELLED	24-28 Apr 2023
Hillen, Hauke	Hillen, Hauke	340500	A 281	Characterization and quantification of biomolecular	0.5	Presence	24 Apr 2023

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<b>Biophysics, Bioinformatics and Statistics</b>							
Grubmüller, Helmut / de Groot, Bert	Andrei Mironenko	340387	A 024	Introduction to Molecular Dynamic Simulations	1.0	Presence	March/April 2023
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 <b>17 April 2023</b>
Friede, Tim	Röver, Christian	340061	A 100	Basic statistics for graduate students in the life sciences - an introduction using R	1.0	Presence	18 Apr - 9 May 2023
Steinem, Claudia	Lara Dohmen, Hendrik Flegel	340067	A 133	Using biosensors to study analyte-ligand interactions: basic principles and applications	0.5	Presence	8 May 2023
Janshoff, Andreas	Amaury Perez Tirado, Tabea Oswald	340235	A 169	Atomic Force Microscopy versatile tools to study surfaces and surface properties	0.5	Presence	12 Sep 2023
Grubmüller, Helmut / de Groot, Bert	-	340204	A 170	Biomolecular Physics and Simulations	2.0	Presence	Mondays, starting from <b>17 April 2023</b>
Beißbarth, Tim	Hazal Timucin, Kevin Kornrumpf	440727	A 176	Introduction to R and RNA-Seq analysis	1.5	Presence	31 May - 2 Jun 2023
Hörandl, Elvira	Natscha Wagner	340247	A 188	Introduction into the bioinformatic analysis of next generation sequence data	1.0	Presence	18-21 Sep 2023
Godec, Aljaz	Cai Dieball	340296	A 212	Advanced Methods in Statistical Mechanics	4.0	Presence	Wednesdays, starting from <b>12 April 2023</b>
Gollisch, Tim	Shashwat Sridhar, Varsha Ramakrishna	340455	A 258	Introduction to neural data analysis with Python	1.5	Presence	24-26 May 2023
Jeschke, Markus	-	340464	A 265	Build your own experiments with Arduinos	1.5	Presence	April 2023
Rismondo, Jeanine	-	340542	A 290	Sequence data analysis with Geneious	1.0	ONLINE	14-15 Jun 2023
Jakobs, Stefan	Jan-Niklas Dohrke	340607	A 294	Taking the next step in Python	1.0	Presence	17-18 Apr 2023
<b>Vertebrate Animal Models</b>							
Wirths, Oliver	-	340199	A 175	Neurodegenerative Diseases: Behavioral and neuropathological analysis of transgenic mouse models	1.0	Presence	June 2023