

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

Program October 2022 - March 2023 (winter semester 2022/23)

- 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>							
Feußner, Ivo	Herrfurth, Cornelia	340045	A 016	Introduction to lipid analysis	1.0	Presence	6-8 Mar 2023
Tittmann, Kai	Fabian Rabe v. Pappenheim	340018	A 064	Principles and methods of protein purification by chromatography	1.0	Presence	24-25 Oct 2022
Tittmann, Kai	Laura Kirck	340077	A 071	Thermodynamic characterization of biomolecular interactions by isothermal titration calorimetry	1.0	Presence	27-28 Oct 2022
Rodnina, Marina	Mercier, Evan	340010	A 081	Introduction to transient kinetic methods	1.0	Presence	6-7 Oct 2022
Rehling, Peter	Anusha Valpadashi, Thomas Schöndorf	340211	A 163	Native membrane protein complex isolation	0.5	Presence	17-18 Nov 2022
Rehling, Peter	Roya Yousefi, Anusha Valpadashi	340212	A 164	<i>In vitro</i> import into purified mitochondria	1.0	Presence	10-11 Oct 2022
<b>Molecular Biology &amp; Genetics</b>							
Pöhlmann, Stefan	Pöhlmann, Stefan	350058	A 160	Molecular Biology of HIV replication and pathogenesis	1.0	Online	Okt 2022 - Feb 2023
Pöhlmann, Stefan	Michael Winkler, Markus Hoffmann, Heike Hofmann-Winkler	340221	A 171	Viral transduction systems	1.0	Presence	15-17 Nov 2022
Cramer, Patrick	Cramer, Patrick	340316	A 214	Lecture Series "Genome Science I"	0.5	Presence	Fridays, starting from 11 November 2022
Jakobs, Stefan	Daniel Jans	340459	A 260	STED nanoscopy and immunolabeling	1.0	tba	11-12 Nov 2022
de Vries, Jan	Armin Dadras, Jacqueline Zegers, Sophie de Vries	340462	A 262	Gene Family Analysis	1.0	Online	27-28 Feb 2023

Department/Group	Supervisor(s)	EXA ID	ID	Title of Course	Credits	Status	Date
<b>Cell Biology &amp; Microbiology, Imaging</b>							
Enderlein, Jörg, Tsukanov, Roman	Nazar Oleksievets	340406	A 244	Super-resolution microscopy with DNA-PAINT_and STORM	1.0	tba	3-4 Nov 2022
Steinem, Claudia, Conrad, Heike		340496	A 276	Hertha Sponer College Lecture Series	0.5	Online	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, Arun Sathyan	340415	A 246	Investigating macromolecular complexes by density gradient centrifugation	1.0	tba	9-11 Nov 2022
Mitkovski, Mišo	Mitkovski, Mišo	340066	A 098	Introduction to image processing in biology with ImageJ and FIJI	1.5	Online	9-11 November 2022
Roos, Christian	Liye Zhang, Lakshmi Seshadri	340322	A 291	Tracing demographic histories from NGS data	1.0	tba	7-8 Nov 2022
Roos, Christian	Liye Zhang, Lakshmi Seshadri	340323	A 292	Tracing selective sweeps in NGS data	1.0	tba	14-15 Nov 2022
Brocher, Jan	Brocher, Jan	340522	A 280	Editing, Processing and analyses of scientific images	1.0	tba	30 Nov - 2 Dec 2022
Zimmermann, Wolfram- Hubertus	Malte Tiburcy, Branimir Berecic	340342	A 236	Construction and Phenotyping of Engineered Heart Muscle	1.5	tba	tba
<b>Molecular &amp; Cellular Neuroscience, Electrophysiology</b>							
Pardo, Luis	Walter Stühmer	340040	A 063	Patch clamp	1.5	Presence	5-7 Oct 2022
Rhee, Jeong Seop	Rhee, Jeong Seop	340038	A 096	Nerve cell culture and patch-clamp recordings from nerve cells	1.0	Presence	6-7 Oct 2022
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
Fiala, André	Annekathrin Widmann	340319	A 216	Neuronal circuit dissection in Drosophila	1.5	Presence	3-5 Oct 2022
Gärtner, Jutta	Susann Diegmann, Kolja Meier	340456	A 233	Next Generation Sequencing to identify the disease gene in unclear neurogenetic disorders	1.0	Presence	6-7 Oct 2022
Moser, Tobias	Shashank Chepurwar, Anupriya Thirumalai	340565	A 289	Electrophysiology in Mouse Auditory system	1.5	Presence	2-4 Nov 2022
Moser, Tobias	Tina Pangršič, Mauro Alfonso Malpede	340582	A 293	Using whole-cell patch-clamp recording to monitor synaptic properties of the inner hair cells	1.5	Presence	7-9 Dec 2022
<b>Theoretical, Systems &amp; Behavioral Neuroscience</b>							
Wolf, Fred / Wibral, Michael / Gollisch, Tim		530170	A 021	Theoretical and Computational Neuroscience: Collective dynamics of biological neural Networks I	3.0	tba	Fridays, starting from 28 October 2022
Antal, Andrea	Strenzke, Nicola / Hoch, Gerhard	340054	A 041	Auditory and visual evoked potentials	1.0	Presence	13-14 Oct 2022
Vakhrushev, Roman	Roman Vakhrushev, Giorgio Manenti, David Garnica	340476	A 264	Designing a psychophysical experiment	0.5	Presence	7-8 Mar 2023

Department/Group	Supervisor(s)	EXA ID	ID	Title of Course	Credits	Status	Date
<b>Structural Biology</b>							
Bennati, Marina	Tomas Orlando, Igor Tkach	340055	A 003	EPR-Spectroscopy	0.5	Online	Oct 2022
Stark, Holger	Niels Fischer	340378	A 225	Single particle cryo-EM of macromolecular complexes and cellular electron tomography	2.5	Presence	Noiv/Dec 2022
Hillen, Hauke	Hillen, Hauke	340500	A 281	Characterization and quantification of biomolecular interactions by fluorescence polarization	1.0	Presence	14 Nov 2022
<b>Biophysics, Bioinformatics and Statistics</b>							
Grubmüller, Helmut / de Groot, Bert	Andrei Mironenko	340387	A 024	Introduction to Molecular Dynamic Simulations	1.0	Presence	Mar 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 24 October 2022
Friede, Tim	Röver, Christian	340061	A 100	Basic statistics for graduate students in the life sciences - an introduction using R	1.0	tba	8-29 Nov 2022
Steinem, Claudia	Dominik Ruppelt, Merve Sari, Ingo Mey	340067	A 133	Using biosensors to study analyte-ligand interactions: basic principles and applications	0.5	tba	10 Feb 2023
Grubmüller, Helmut / de Groot, Bert	Grubmüller, Helmut / de Groot, Bert	340232	A 143	Theoretical and Computational Biophysics	2.0	Presence	Mondays, starting from 24 October 2022
Beißbarth, Tim/ Maksims Fiosins/ Posnien, Nico	Beißbarth, Tim/ Maksims Fiosins/ Posnien, Nico	340208	A 157	Next Generation Sequencing (NGS) – Analysis of RNAseq and ChIP-seq data	1.5	Presence	21-23 Nov 2022
Steinem, Claudia	Ingo Mey / Amaury Perez Tirado	340235	A 169	Atomic Force Microscopy versatile tools to study surfaces and surface properties	0.5	tba	27 Mar 2023
Beißbarth, Tim	Karly Conrads, Hazal Timucin	440727	A 176	Introduction to R and RNA-Seq analysis	1.5	Online	5-7 Oct 2022
Mundry, Roger		340497	A 279	Data simulation for linear models in R	4.0	tba	1-18 Nov 2022
Karpitschka, Stefan	Rodrigo Catalan, Maximilian Kurjahn	340013	A 253	Microfabrication techniques for Microfluidics	1.0	tba	11-12 Oct 2022
Jeschke, Markus		340464	A 265	Build your own experiments – an introduction to microcontrollers	1.5	Presence	19-21 Oct 2022
Rismondo, Jeanine		340542	A 290	Sequence data analysis with Geneious	1.0	Online	11-12 Jan 2023
Mundry, Roger		340497	A 277	Linear models and their application in R	4.5	Online	26 Jan - 17 Feb 2023
<b>Vertebrate Animal Models</b>							
Wirths, Oliver		340199	A 175	Neurodegenerative Diseases: Behavioral and neuropathological analysis of transgenic mouse models	1.0	Presence	Feb 23