

GGNB Methods Courses 2013 - Overview Sep 2013 - Feb 2014

Last Update: 26 June 2013

Short Methods Courses & Method Seminars; Extended Methods Courses Sep 2013 - Feb 2014 (B)

Department/Group	Supervisor(s)	UniVZ	ID	Title of Course	Credits	Date B
Biochemistry						
Jahn, Reinhard	Kühnel, Karin /Scacioc, Andrea	340004	A 036	Protein purification and characterization	1.0	14-15 Nov 2013
Höbartner, Claudia	Höbartner, Claudia	340005	A 032	Chemical synthesis and enzymatic ligation of RNA and DNA oligonucleotides	1.0	21-22 Nov 2013
Rodnina, Marina	Holtkamp, Wolf	340010	A 081	Introduction to transient kinetic methods	1.0	21-22 Oct 2013
Schmitt, Hans Dieter	Schröter, Saskia/ Beckermann, Sabine	340015	A 034	BiFC (bimolecular fluorescence complementation) in yeast	1.0	Nov 2013 (tba)
Tittmann, Kai	Wechsler, Cindy/Schröder-Tittmann, Kathrin	340018	A 064	Principles and methods of protein purification by chromatography	1.0	11-12 Nov 2013
Urlaub, Henning	Atanassov, Ilian / Hofele, Romina / Karaca, Samir / Qamar, Saadia /	340020	A 065	Sequence analysis of proteins and their post-translational modifications by MALDI-ToF and electrospray ionization (ESI) mass spectrometry	1.0	tba
Rehling, Peter	Deckers, Markus	340021	A 092	Subcellular fractionation	0.5	14 Nov 2013
Fischle, Wolfgang	Hamada, Kyoko	340044	A 075	Chromatin Immunoprecipitation (ChIP)	1.0	28-30 Oct 2013
Jahn, Reinhard	Park, Yongsoo /Yavuz, Halenur	340046	A 033	Reconstitution of neuronal exocytosis	1.0	17-18 Oct 2013
Rehling, Peter	Bareth, Bettina/ Römpler, Katharina	340074	A 053	Blue-native PAGE analysis of membrane protein complexes	1.0	18-19 Feb 2014
Lührmann, Reinhard	Hartmuth, Klaus	340075	A 093	The application of RNA structure determination methodology to the analysis of RNA-protein interactions in RNP complexes	1.0	5-7 Feb 2014
Wintermeyer, Wolfgang	Bornemann, Thomas	340076	A 105	Equilibrium studies of protein-ligand interactions using fluorescence techniques	1.0	14-15 Oct 2013
Tittmann, Kai	Tietzel, Michael	340077	A 071	Thermodynamic characterization of biomolecular interactions by isothermal titration calorimetry	1.0	14-15 Nov 2013
Jahn, Reinhard	Halder, Partho/ Angel Perez Lara	340171	A 146	Reconstitution of membrane fusion by proteoliposomes	1.0	3-5 Sep 2013
Görlisch, Dirk	Frey, Steffen	340180	A 131	Methods in bacterial protein expression and purification	0.5	03 Dez 2013
Görlisch, Dirk	Frey, Steffen	340183	A 132	Purification of recombinant proteins from <i>E. coli</i>	1.0	3-4 Dez 2013
Konrad, Manfred	Karamitros, Christos	340200	A 151	Introduction to steady-state kinetics	1.0	9-10 Jan 2014
Walter, Lutz	Walter, Lutz/ Zeitseva, Olena	340205	A 155	High-throughput single-cell quantitative microfluidic RT-PCR	1.0	24-25 Oct 2013

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Molecular Biology & Genetics						
Dobbelstein, Matthias	Jagannathan, Veena/ Krönung, Sonja	340003	A 010	Assessing promoter activity by luciferase assays	1.0	Oct/Nov 2013 (tba)
Dobbelstein, Matthias	Wienken, Magdalena	340017	A 011	Polymerase Chain Reaction I and advanced applications	1.0	10-11 Oct 2013
Gruber, Jens	Gruber, Jens	340022	A 068	Mechanisms of RNA silencing	1.0	Nov 2013 (tba)
Brenig, Bertram	Schütz, Ekkehard	340098	A 113	NGS and HTP SNP typing	1.0	tba
Brenig, Bertram	Schütz, Ekkehard	340170	A 006	Genotyping using FRET on the LightCycler	1.0	tba
Jakobs, Stefan	Jensen, Nickels	340191	A 147	Mutagenesis and screening strategies to design photoswitchable fluorescent proteins	1.0	22-23 Oct 2013
Beißbarth, Tim / Bonn Stefan / Posnien, Nico		340208	A 157	Next Generation Sequencing (NGS) – Analysis of RNAseq and ChIP-seq data	1.5	26-28 Nov 2013
Cell Biology & Microbiology, Imaging						
Nave, Klaus-Armin	Möbius, Wiebke	340025	A 044	Subcellular localization of proteins by immunoelectron microscopy of cryosections	1.0	11-12 Nov 2013
Olympus / Bodenschatz lab	Schmidt, Helge / Tarantola, Marco	340027	A 046	Theory and basics of fluorescence microscopy and imaging / Introduction to life science research applications FRET, FRAP, FLIM,	1.0	Mar 2014 (tba)
Kehlenbach, Ralph	Kehlenbach, Ralph	340081	A 039	Analysis of nucleocytoplasmic transport by flow cytometry	0.5	29 Jan 2014
Cordes, Volker	Cordes, Volker	340110	A 009	Preparation of <i>Xenopus laevis</i> nuclear envelopes and their analysis by field emission scanning electron microscopy	1.0	5-7 Feb 2014
Simons, Mikael	Mitkovski, Miso	340114	A 059	GFP proteins and their application (FRAP, FRET, photo activation)	1.0	4-5 Nov 2013
Großhans, Jörg	Gummalla, Mahesh	340163	A 124	Live imaging and laser ablation	1.0	9-10 Sep 2013
Jakobs, Stefan	Kummer, Susann	340182	A 134	Imaging Mitochondria in Eukaryotic Cells	1.0	10-11 Sep 2013
Developmental Biology, Anatomy & Histology						
Eichele, Gregor / Geffers, Lars	Miletic, Helena	340029	A 013	Mouse histology & <i>in situ</i> expression analyses	1.0	4-5 Nov 2013
Stadelmann-Nessler, Christine	Stadelmann-Nessler, Christine/ Kowatsch, Olga	340033	A 060	Non-radioactive in situ hybridization	1.0	11-13 Nov 2013
Bucher, Gregor	Bucher, Gregor	340083	A 145	Orthologs and Paralogs – how they evolve and how to distinguish them	0.5	08 Nov 2013
Hahn, Heidi	Nitzki, Frauke / Becker, Marco	340084	A 028	<i>In situ</i> hybridization of paraffin embedded tissue sections	1.0	17-21 Feb 2014
Pieler, Tomas	Henningfeld, Kristine	340120	A 051	Gene regulation in <i>Xenopus</i>	1.0	18-20 Nov 2013
Dobbelstein, Matthias	Lizé, Muriel	340181	A 129	Preparation of mouse embryonic fibroblasts (culture of primary cells)	1.0	tba

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Vertebrate Animal Models						
Bayer, Thomas A.	Wirths, Oliver	340034	A 002	Alzheimer's disease: Behavioural and neuropathological analysis of transgenic mouse models	1.0	26-27 Nov 2013
Schraepler, Anke / Reupke,	Schraepler, Anke	340036	A 101	Introduction to laboratory animal science	1.5	16-20 Sep + 1-2 Oct 2013
Brembeck, Felix	Bunzendahl, Jens	340086	A 107	Tissue processing and immunohistochemistry on tissue sections of genetically engineered mouse models	1.0	Dec 2013 (tba)
Bähr, Mathias	Lingor, Paul	340194	A 139	In vitro and in vivo for Parkinson's disease research	0.5	05 Nov 2013
Molecular & Cellular Neuroscience, Electrophysiology						
Rhee, JeongSeop	Rhee, JeongSeop	340038	A 096	Nerve cell culture and patch-clamp recordings from nerve cells	1.0	23-24 Sep 2013
Rizzoli, Silvio	Revelo, Natalia/ Saka, Sinem/ Vreja, Ingrid	340039	A 089	High resolution microscopy in synapses	1.0	25-26 Sep 2013
Stühmer, Walter	Pardo, Luis	340040	A 063	Patch clamp	1.0	22-24 Jan 2014
Fiala, André / Göpfert, Martin		340087	A 083	Drosophila Neurogenetics	1.0	9-11 Sep 2013
Brose, Nils / Rizzoli, Silvio		340124	A 42	Fundamental principles of sensory processing	0.5	2 Oct 2013
Bringmann, Henrik	Spies, Jan / Turek, Michal / Schwarz, Juliane	340187	A 137	Neurobiology of <i>C. elegans</i>	0.5	17 Oct 2013
Brose, Nils	Papadopoulos, Theofilos / Meyer, Simone	340196	A 149	Culturing hippocampal neurons: Preparation and analysis by immunostaining	1.0	16-17 Sep 2013
Brose, Nils	Krüger, Dilja	340197	A 153	Isolation of synaptic compartments for quantitative biochemical analysis	0.5	tba
Theoretical, Systems & Behavioral Neuroscience						
Antal, Andrea	Paulus, Walter	340056	A 048	Transcranial magnetic- and electrical stimulation	1.0	20-22 Feb 2014
Ehrenreich, Hannelore	Begemann, Martin / Bartels, Claudia	340185 (B)	A 012	Translational Neuroscience: (A) Schizophrenia, (B) Multiple Sclerosis	2.0 / module	(B) 1-3 Nov 2013
Structural Biology						
Bennati, Marina	Türke, Maria Teresa / Tkach, Igor / Argirevic, Tomislav	340055	A 003	EPR-Spectroscopy	1.5	18-20 Sep 2013
Pena, Vlad	Schmitzova, Jana / Steuerwald, Ulrich / De, Inessa / de Moura,	340059	A 102	Crystallization of biological macromolecules	1.0	20-21 Jan 2014
Stark, Holger	N.N.	340060	A 061	3D structure determination of macromolecular complexes by single particle cryo-EM	1.0	tba

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Biophysics, Bioinformatics and Statistics						
Friede, Tim	Konietsche, Frank / Lange, Katharina	340061	A 100	Basic statistics for graduate students in the life sciences	1.0	21-24 Oct 2013
Steinem, Claudia / Janshoff, Andreas	Mey, Ingo / Neubacher, Henrik	340065	A 062	Scanning Ion Conductance Microscopy, a versatile tool to study surfaces and surface properties	1.0	14-15 Nov 2013
Mitkovski, Mišo	Mitkovski, Mišo	340066	A 098	Introduction to image processing in biology with ImageJ and Fiji	1.0	4-5 Dec 2013
Steinem, Claudia / Janshoff, Andreas	Schatz, Michaela	340067	A 133	Using biosensors to study analyte-ligand interactions: basic principles and applications	0.5	29 Nov 2013
Walter, Lutz	Brameier, Markus	340068	A 067	Introduction to Bioinformatics Methods	1.0	Oct 2013 (tba)
Kollmar, Martin	Mühlhausen, Stefanie	340131	A 116	Protein family analysis as basis for experiments and experimental data interpretation	1.0	9-10 Oct 2013
Grubmüller, Helmut / Schmidt, Christoph F.	Grubmüller, Helmut / Schmidt, Christoph F.	340166	A 025	Current Topics in Biophysics – Lecture Series	1.0	Fridays
Grubmüller, Helmut	Kaptan, Shreyas	340168	A 024	Introduction to molecular dynamic simulation	1.0	tba
Köster, Sarah	Dammann, Christian/ Oliva	340169	A 117	Microfluidics	1.0	2 courses: 14-15 Oct and 20-21 Oct 2013
Beißbarth, Tim	Bayerlova, Michaela	340172	A 126	Introduction to R and microarray analysis	1.0	9-11 Oct 2013
Grubmüller, Helmut / de Groot, Bert / Groenhof, Bert	Grubmüller, Helmut / de Groot, Bert	340195	A 143	Theoretical and Computational Biophysics: Introduction	1.5	Mondays
Enderlein, Jörg	Ghosh, Siddharth	340201	A 154	Optics in Microscale to Nanoscale: From Rainbow to Plasmonic	0.5	3-4 Sep 2013
Timme, Marc / Geisel, Theo / Wolf, Fred		530170	A 021	Theoretical and Computational Neuroscience: Collective dynamics of biological neural Networks I	1.0	Fridays
Extended Methods Courses						
Hell, Stephan / Egner, Alexander	Hell, Stephan / Egner, Alexander	340125	E 01	Advanced Light Microscopy	3.0	16-20 Sep 2013