

GGNB Methods Courses 2014: Overview September 2014- February 2015

26 Jun 2014

Short Methods Courses & Method Seminars; Extended Methods Courses Sept 2014 - Feb 2015 (B)

Department/Group	Supervisor(s)	UniVZ	ID	Title of Course	Credits	Date B
Biochemistry						
Jahn, Reinhard	Kühnel, Karin / Meije, Janina	340004	A 036	Protein purification and characterization	1.0	6-7 Nov 2014
Höbartner, Claudia	Höbartner, Claudia	340005	A 032	Chemical synthesis and enzymatic ligation of RNA and DNA oligonucleotides	1.0	29-30 Jan 2015
Rodnina, Marina	Holtkamp, Wolf	340010	A 081	Introduction to transient kinetic methods	1.0	20-21 Oct 2014
Schmitt, Hans Dieter	Beckmann, Sabine	340015	A 034	BiFC (bimolecular fluorescence complementation) in yeast	1.0	<i>tba</i>
Tittmann, Kai	Sautner, Viktor / Prajapati, Sabin / v. Pappenheim, Fabian R.	340018	A 064	Principles and methods of protein purification by chromatography	1.0	10-11 Nov 2014
Urlaub, Henning	Atanassov, Ilian / Hofele, Romina / Karaca, Samir / Qamar, Saadia / Wuttke, Jan-Moritz	340020	A 065	Sequence analysis of proteins and their post-translational modifications by MALDI-ToF and electrospray ionization (ESI) mass spectrometry	1.0	27-29 Oct 2014
Rehling, Peter	Wuttke, Jan-Moritz	340021	A 092	Subcellular fractionation	0.5	11 Sep 2014
Fischle, Wolfgang	Fischle, Wolfgang/ Hamada, Kyoko	340044	A 075	Chromatin Immunoprecipitation (ChIP)	1.0	27-29 Oct 2014
Feußner, Ivo	Herrfurth, Cornelia	340045	A 016	Introduction to lipid analysis	1.0	25-27 Feb 2015
Jahn, Reinhard	Milovanovic, Dragomir / Witkowska, Agata	340046	A 033	Reconstitution of neuronal exocytosis	1.0	27-28 Nov 2014
Rehling, Peter	Römpler, Katharina	340074	A 053	Blue-native PAGE analysis of membrane protein complexes	1.0	17-18 Feb 2015
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	18-20 Feb 2015
Tittmann, Kai	Tietzel, Michael / Kupski, Oliver	340077	A 071	Thermodynamic characterization of biomolecular interactions by isothermal titration calorimetry	1.0	13-14 Nov 2014
Fischle, Wolfgang	Fischle, Wolfgang / Finn, Ron	340113	A 074	Hydrodynamic analysis of proteins and protein complexes by analytical ultracentrifugation	1.0	25-26 Sep 2014
Jahn, Reinhard	Halder, Partho/ Angel Perez Lara	340171	A 146	Reconstitution of membrane fusion by proteoliposomes	1.0	13-14 Jan 2015
Walter, Lutz	Walter, Lutz / Zaitseva, Olena	340184	A 138	High-throughput single-cell quantitative microfluidic RT-PCR	1.0	20-21 Nov 2014
Konrad, Manfred		340200	A 151	Introduction to steady-state kinetics	1.0	15-16 Jan 2015

Department/Group	Supervisor(s)	UniVZ	ID	Title of Course	Credits	Date B
Biochemistry (Continued)						
Tittmann, Kai	Kühnel, Karin / Urlaub, Henning / Lange, Adam	340186	E 02	Bioanalytics (Extended methods course)	4.0	September 2014
Rehling, Peter	Levchenko, Maria / Lorenzi, Isotta	340211	A 163	Native membrane protein complex isolation	0.5	9 Oct 2014
Biophysics and Bioinformatics						
Friede, Tim	Konietsche, Frank / Lange, Katharina	340061	A 100	Basic statistics for graduate students in the life sciences	1.0	13/ 15/ 16/ 17 Oct 2014
Mitkovski, Mišo	Mitkovski, Mišo / Ioannis Alexopoulos	340066	A 098	Introduction to image processing in biology with ImageJ	1.0	13-14 Oct 2014
Steinem, Claudia	Gleisner, Martin / Mey, Ingo	340067	A 133	Using biosensors to study analyte-ligand interactions: basic principles and applications	0,5	19 Nov 2014
Walter, Lutz	Brameier, Markus	340068	A 067	Introduction to Bioinformatics Methods	1.0	Nov 2014
Kollmar, Martin	Mühlhausen, Stefanie	340131	A 116	Protein family analysis as basis for experiments and experimental data interpretation	1.0	11-12 Sep 2014
Burg, Thomas P.	Burg, Thomas P.	340135	A 121	Micropatterning and Microfluidics	1.5	Dec 2014
Grubmüller, Helmut / Schmidt, Christoph F.	Grubmüller, Helmut / Schmidt, Christoph F.	340166	A 025	Current Topics in Biophysics – Lecture Series	1.0	WS 2014/15, Fridays
Grubmüller, Helmut	von Ardenne, Benjamin	340168	A 024	Introduction to molecular dynamic simulation	1.0	WiSe 2014/15
Beißbarth, Tim	Wachter, Astrid	340172	A 126	Introduction to R and microarray analysis	1.0	8-10 Oct 2014
Grubmüller, Helmut / de Groot, Bert / Groenhouf, Gerrit	Grubmüller, Helmut / de Groot, Bert	340195	A 143	Theoretical and Computational Biophysics	1.5	Mondays WiSe 2014/15
Steinem, Claudia / Janshoff, Andreas	Mey, Ingo / Noeding, Helen	340203	A 169	Atomic Force Microscopy vs. Scanning Ion Conductance Microscopy; versatile tools to study surfaces and surface properties	1.0	11-12 Dec 2014
Katifori, Eleni	Gräwer, Johannes/ Manik, Debsankha			Introduction to Interactive Network Analysis and Visualization with Python	0,5	one day out of 3/ 10/ 18/ 26 Sep 2014
Cell Biology and Microbiology, Imaging						
Nave, Klaus-Armin	Möbius, Wiebke	340025	A 044	Subcellular localization of proteins by immunoelectron microscopy of cryosections	1.0	17-18 Nov 2014
Olympus / Bodenschatz	Tarantola, Marco	340027	A 046	Theory and basics of fluorescence microscopy and imaging / Introduction to life science research applications FRET, FRAP, FLIM,	1.0	<i>tba</i>
Simons, Mikael	Mitkovski, Miso	340114	A 059	GFP proteins and their application (FRAP, FRET, photo activation)	1.0	16-17 Oct 2014
Großhans, Jörg	Gummalla, Mahesh	340163	A 124	Live imaging and laser ablation	1.0	22-23 Sep 2014

Department/Group	Supervisor(s)	UniVZ	ID	Title of Course	Credits	Date B
Cell Biology and Microbiology, Imaging (Continued)						
Jakobs, Stefan	Wurm, Christian	340182	A 134	Imaging Mitochondria in Eukaryotic Cells	1.0	7-8 Oct 2014
Developmental Biology, Anatomy and Histology						
Eichele, Gregor / Geffers, Lars	Geffers, Lars	340029	A 013	Mouse histology & <i>in situ</i> expression analyses	1.0	3-4 Nov 2014
Stadelmann-Nessler, Christine	Stadelmann-Nessler, Katja Schulz	340033	A 060	Non-radioactive <i>in situ</i> hybridization	1.0	10-12 Nov 2014
Bucher, Gregor	Bucher, Gregor	340083	A 145	Orthologs and Paralogs – how they evolve and how to distinguish them	0.5	10 Oct 2014
Shcherbata, Halyna	Shcherbata, Halyna	340085	A 056	Introduction to basic histology techniques	1.0	4-5 or 11-12 Nov 2014
Pieler, Tomas	Henningfeld, Kristine	340120	A 051	Gene regulation in <i>Xenopus</i>	1.0	24-26 Nov 2014
Molecular and Cellular Neuroscience, Electrophysiology						
Rhee, JeongSeop	Rhee, JeongSeop	340038	A 096	Nerve cell culture and patch-clamp recordings from nerve cells	1.0	22-23 Sep 2014
Stühmer, Walter	Pardo, Luis	340040	A 063	Patch clamp	1.0	14-16 Jan 2015
Fiala, André / Göpfert, Martin	Riemensperger, Thomas Geurten, Bart	340087	A 083	<i>Drosophila</i> Neurogenetics	1.0	6-8 Oct 2014
Moser, Tobias	Wichmann, Carolin / Chakrabarti, Rituparna	340196	A 149	Basic methods of transmission electron microscopy - from tissue preparation to	1.0	Nov 2014
Brose, Nils	Krüger, Dilja	340197	A 153	Isolation of synaptic compartments for quantitative biochemical analysis	1.0	02 Sep 2014
Molecular Biology and Genetics						
Dobbelstein, Matthias	Landmann, Hannes / Wienken, Magdalena	340017	A 011	Polymerase Chain Reaction I and advanced applications	1.0	5-6 Feb 2015
Gruber, Jens	Gruber, Jens	340022	A 068	Mechanisms of RNA silencing	1.0	Nov 2014
Kehlenbach, Ralph	Kehlenbach, Ralph	340081	A 039	Analysis of nucleocytoplasmic transport by flow cytometry	0.5	28 Jan 2015
Brenig, Bertram	Schütz, Ekkehard	340098	A 113	NGS and HTP SNP typing	1.0	<i>tba</i>
Brenig, Bertram	Schütz, Ekkehard	340170	A 006	Genotyping using FRET on the LightCycler	1.0	<i>tba</i>
Fischer, André	Barth, Jonas / Benito, Eva / Urbanke, Hendrik	340218	A 084	Chromatin-immunoprecipitation and epigenomic gene-profiling in the adult brain	1.0	10-11 Nov 2014
Pöhlmann, Stefan	Winkler, Michael Blazejewska, Paulina	340221	A 171	Viral transduction systems	1.0	25-27 Nov 2014
Jakobs, Stefan	Jensen, Nickels	340226	A 173	Strategies to design photoswitchable fluorescent proteins and their application in nanoscopy	1.0	14-15 Oct 2015

Department/Group	Supervisor(s)	UniVZ	ID	Title of Course	Credits	Date B
Molecular Biology and Genetics (Continued)						
Beißbarth, Tim/ Bonn, Stefan / Posnien, Nico	Beißbarth, Tim/ Bonn, Stefan / Posnien, Nico	340208	A 157	Next Generation Sequencing (NGS) – Analysis of RNAseq and ChIP-seq data	1.5	25-27 Nov 2014
Department/Group	Supervisor(s)	UniVZ	ID	Title of Course	Credits	Date B
Structural Biology						
Bennati, Marina	Liu, Guoquan / Pievo, Roberta / Halbmaier, Karin	340055	A 003	EPR-Spectroscopy	1.5	24-26 Sep 2015
Stark, Holger	David Hasselbach	340060	A 061	3D structure determination of macromolecular complexes by single particle cryo-EM	1.0	December 2014
Techert, Simone	Techert, Simone	340183	A 135	Practical synchrotron on site course in modern x-ray techniques and crystallography at DESY / Hamburg	2.0	26-29 Jan 2015
Theoretical , Systems, and Behavioral Neuroscience						
Antal, Andrea	Paulus, Walter	340056	A 048	Transcranial magnetic- and electrical stimulation	1.0	Feb 2015
Geisel, Theo / Gollisch, Tim / Gütig, Robert/ Wolf, Fred	Geisel, Theo / Gollisch, Tim / Gütig, Robert/ Wolf, Fred	530170	A 021	Theoretical and Computational Neuroscience: Collective Dynamics Biological Neural Networks I	2.0	Fridays, WS 2014/15
Vertebrate Animal Models						
Bayer, Thomas A.	Wirths, Oliver	340034	A 002	Alzheimer's disease: Behavioural and neuropathological analysis of transgenic mouse models	1.0	14-15 Oct 2014
Bähr, Mathias	Lingor, Paul	340219	A 139	<i>In vitro</i> and <i>in vivo</i> models for Parkinson's disease research	0.5	21 Oct 2014