

Topics			
Dates	Monday (3 lecture hrs)		Tuesday (1 lecture hr)
14.-18.10	Introduction		Introduction
21.-25.10	GPCR - Calebiro		Imaging Cytoskel. Dynamics - Gohla
28.10.-01.11	Imaging C. elegans: a) Nerv. system; Stigloher	b) Membrane Dynamics; Wehman	NMR Heart Imaging - Bauer
04.-08.11	Yeast / Genome Stability- Paeschke	Protein folding/degradation - Buchberger	Lipid Rafts - Kreuzer
11.-15.11	Structure Based Drug Design - Kisker	BMPs - T.Mueller	Light activated channels - Nagel
18.-22.11	S. aureus - Fraunholz / Ohlsen	S. aureus - Fraunholz / Ohlsen	C. albicans-Morschhaeuser
25.-29.11	Trypanosomes - Engstler/Janzen/Jones		Antibodies & T-cells - Huenig
02.-06.12	Medaka Melanoma - Meierjohan	Mouse Cancer - Berberich	Xenopus development - Dabauvalle
09.-13.12	Neuronal Mouse Models - Lesch, Sendtner, Martini		Gene vs. Environment in Anxiety - Deckert
16.-20.12	Droso Neurodevelopment - Raabe	Rhythm - Foerster/Wegener	Drosophila Learning - Heisenberg
Christmas Break			
07.-10.1.	Ausweich-Woche		
13.-17.1.	Marine Sponges - Hentschel-Humeida	Fungus-Plant-Interaction - Hildebrandt	Chemical Ecology - Schmitt
20.-24.1.	Deep Sequencing in Pathogens - Sharma	RNA metabolism - Eulalio	Epigenetics - Siegel
27. + 28.1.	Computational Topics- Dandekar / Schultz / Wolf		

Colour code:

Topics
Imaging
Biochemical and Biophysical Research
Infection & Immunity & Cancer
Neuroscience and Behavior
Integrative Biology
Data Analysis and Computational Methods

Methods		
Wednesday (1 lecture hr)	Thursday (1 lecture hr)	Friday (1 lecture hr)
Advanced Fluorescence Microscopy - Calebi	High Res Microscopy - Sauer	Beilhack - In-vivo imaging
Basic Electron Microscopy - Stigloher		NMR Imaging - Jakob
Protein Expression & Purification & Charecterization - Kisker/Schindelin		
X-Ray Crystallography - Schindelin	Protein Docking - Sotriffer	Electrophysiological Methods - Roelfsema
Microbe genetics - Lopez	Typing of Bacteria - Vogel	TALENs - Droege-Laser
Viruses - Carsten Scheller		
Stem cell research - Edenhofer	Tissue culture - Metzger	FACS - T. Herrmann
Methods in Biopsychology - Pauli		Deep Brain Stimulation - Volkmann
Drosophila Toolbox - Gallant	Methods in Behavioral Physiology - Roessler / Roces	
Methods in Biodeversity Research - Steffan-	Keller - Community Metagenomic	Environ. risk assessment transgen. Crops - Haertel
		Tissue Engineering - Jakob
Next generation sequencing - J. Vogel	Mass Spectrometry - Schlosser	Metabolomics - Fekete
Computational Biology - Dandekar / Schultz / Wolf		

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Methods

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