2015 16.03	Introduction, cameras and detectors
09:00-09:45	Welcome
09:45-10:20 10:30-12:00	Types of light microscope systems Camera and PMT properties
10:30-12:00	How to select the correct camera for your application
13:00-14:00	Student presentations: imaging challenge (group 1 and 2)
14:15-15:15 15:30-16:30	workshops workshops
16:30-17:00	answer exam questions
17.03	Sample preparation and avoiding bleedthrough
9:00-10:00	The different types of carriers by Corning
10:00-10:20	the different types of mounting media (hardware autofocus) how to seed cells to get even distribution
10.00 10.20	How to clean the objectives and the samples. Objective coatings are fragile
10:30-12:00	how to fix, stain. DAPI and Hoechst Matching fluorophores and filters spectra
10.30*12.00	how to identify and avoid bleedthrough
13:00-14:00	Sequential vs simultaneous imaging vs Spectral detectors, virtual filters and unmixing
14:15-15:15	Student presentations: imaging challenge (group 3 and 4) workshops
15:30-16:30	workshops
16:30-17:00	answer exam questions
18.03 09:00-09:50	Objectives, resolution and contrast
09.00-09.30	Specifications of objectives: magnification, WD, NA, ring, immersion, brightness, xyz resolution, depth of field Which objective for which application?
	How to care for the objectives?
10:00-12:00	comments about exam questions from previous days Resolution and contrast
	Aberrations and diffraction
	Point Spread Function Confocal aperture size
	Airy unit, Rayleigh criterion, Abbe's limit and MTF curves
13:00-14:00	What is the Nyquist sampling theory and how to use it. scanning density High throughput yeast imaging
14:15-15:15	workshops
15:30-16:30 homework	workshops answer exam questions about objectives, resolution and contrast
10.02	
19.03 9:00-10:20	Confocal settings and Fluorophores spherical aberrations
	v typical workflow of how to set a confocal: question, objective, sequential or simultaneous, scan area, pixel density, laser po When do we care about resolution?
	Saturation, underexposure, bit depth and fluorophore saturation. show tomas figure to demo wrong offfset
	comments about exam questions from previous days
10:30-12:00	What is light? What is fluorescence: excitation, emission and lifetime?
	The different types of fluorophores
	Fluorophore specifications (quantum yield, brightness) and how to judge what a good fluorophore is Fluorophore saturation
13:00-14:00	Colocalization
14:15-15:15 15:30-16:30	workshops workshops
homework	answer exam questions about objectives, resolution and contrast
20.03	xyz automation and fast imaging
20.03 9:00-10:20	Large image/overview/tiling
	Large image/overview/tiling How to find the area of interest in a large sample with minimum bleaching
9:00-10:20	Large image/overview/tiling How to find the area of interest in a large sample with minimum bleaching Hardware versus software autofocus, focus surface Options for fast imaging
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