2015	
2015 16.03	Introduction, cameras and detectors
09:00-09:45 09:45-10:20	Welcome Types of light microscope systems
10:30-12:00	Camera and PMT properties
13:00-14:00	How to select the correct camera for your application Student presentations: imaging challenge (group 1 and 2)
14:15-15:15	workshops
15:30-16:30 16:30-17:00	workshops 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
	How to clean the objectives and the samples. Objective coatings are fragile how to fix, stain. DAPI and Hoechst
10:30-12:00	Matching fluorophores and filters spectra how to identify and avoid bleedthrough
13:00-14:00	Sequential vs simultaneous imaging vs Spectral detectors, virtual filters and unmixing Student presentations: imaging challenge (group 3 and 4)
14:15-15:15 15:30-16:30	workshops workshops
16:30-17:00	answer exam questions
18.03	Objectives, resolution and contrast
09:00-09:50	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? comments about exam questions from previous days
10:00-12:00	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
19.03	Confocal settings and Fluorophores
9:00-10:20	spherical aberrations 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
12.00 1	Fluorophore saturation
13:00-14:00 14:15-15:15	Colocalization workshops
15:30-16:30 homework	workshops answer exam questions about objectives, resolution and contrast
20.02	viz automation and fast imaging
20.03 9:00-10:20	xyz automation and fast imaging Large image/overview/tiling
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
9:00-10:20 10:30-11:15 11:15-12:00	Large image/overview/ling How to find the area of interest in a large sample with minimum bleaching Hardware versus oftware autofocus, focus surface Options for fast imaging Stereology by Visiopharm presentation of literature studies group 3 and 4
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