2015 16.03 09:00-09:45 09:45-10:20 10:30-12:00	Introduction, cameras and detectors
09:00-09:45 09:45-10:20	
09:45-10:20	
	Welcome
10:30-12:00	Types of light microscope systems
	Camera and PMT properties
	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	workshops
15:30-16:30	workshops
16:30-17:00	
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
	the different types of mounting media (hardware autofocus)
10:00-10:20	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
10-20 12-00	
10:30-12:00	Matching fluorophores and filters spectra
	how to identify and avoid bleedthrough
	Sequential vs simultaneous imaging vs Spectral detectors, virtual filters and unmixing
13:00-14:00	Student presentations: imaging challenge (group 3 and 4)
14:15-15:15	workshops
15:30-16:30	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?
40.00.40.00	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
	What is the Nyquist sampling theory and how to use it. scanning density
13:00-14:00	High throughput yeast imaging
14:15-15:15	workshops
15:30-16:30	workshops
homework	answer exam questions about objectives, resolution and contrast
	4
19.03	Confocal settings and Fluorophores
9:00-10:20	spherical aberrations
50 15.20	
	typical workflow of how to set a confocal: question, objective, sequential or simultaneous, scan area, pixel density, laser provided the down that the down the care about resolution?
	Saturation, underexposure, bit depth and fluorophore saturation. show tomas figure to demo wrong offfset
10:30-12:00	comments about exam questions from previous days
	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	
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	Fluorophore saturation Colocalization
14:15-15:15	Fluorophore saturation Colocalization workshops workshops
14:15-15:15 15:30-16:30	Fluorophore saturation Colocalization workshops
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14:15-15:15 15:30-16:30 homework 20.03	Fluorophore saturation Colocalization workshops workshops answer exam questions about objectives, resolution and contrast xyz automation and fast imaging
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