10th Course on Optical Microscopy Imaging for Biosciences
9 - 13 April, 2018, I3S, Porto, Portugal

Preliminary program					
	Monday 9	**Tuesday 10**	**Wednesday 11**	**Thrusday 12**	**Friday 13**
09:00	**Registration and Reception**				
09:30	**Course overview**	**Optical Contrast Techniques in Transmission Ligth Microscopy** (Paula Sampaio)	**Live Cell imaging** (Cristina Ferrás)	**Live Imaging applications** (Nikon/Izasa application specialist)	**Digital Image Analysis** (Paulo Castro Aguiar)
09:45	**Light proprieties and image formation** (Carla Carmelo Rosa)				
10:00					
10:15		**Fluorescence microscopy techniques** (Paula Sampaio)	Coffee break	**Deep imaging** (Femtonics application specialist)	
10:30					
10:45			**Lightsheet microscopy** (Ricardo Cunha)		
11:00	Coffee break	Coffee break		Coffee break	Coffee break
11:15					
11:30	**Cell sample preparation** (Cristina Ferrás)	**Optical sectioning** (Zeiss application specialist)	**Microscopy Labs:** Single molecule nanoscopy	**Single Molecule Nanoscopy applications** (Oxford Nanoimaging specialist)	**Introduction to ImageJ/Fiji** (Nuno Martins)
11:45					
12:00					
12:15	**Preparation of histological samples** (Rossana Correia)			**STED nanoscopy** (António Pereira)	
12:30					
12:45					
13:00	Lunch	Lunch	Lunch	Lunch	Lunch
13:15					
13:30					
13:45					
14:00					
14:15	**Optical Labs** (Light proprieties, lens, reflection, refraction, diffraction, interference) **Light Microscope Anatomy** (light sources, condensator, objectives, camera)	**Microscopy Labs:** Transmission and fluorescence mic. Digital imaging Confocal microscopy STED microscopy	**Microscopy Labs:** Transmission and fluorescence mic. Digital imaging Confocal microscopy STED microscopy	**Microscopy Labs:** Live cell imaging Samples observation	**ImageJ/Fiji macros** (Nuno Martins)
14:30					
14:45					
15:00					
15:15					
15:30					
15:45					
16:00					Break
16:15	Break	Break	Break	Break	
16:30					**Image analysis Labs** (Data analysis)
16:45	**Optical Labs** (Light proprieties, lens, reflection, refraction, diffraction, interference) **Light Microscope Anatomy** (light sources, condensator, objectives, camera)	**Microscopy Labs:** Transmission and fluorescence mic. Digital imaging Confocal microscopy STED microscopy	**Microscopy Labs:** Transmission and fluorescence mic. Digital imaging Confocal microscopy STED microscopy	**Image analysis tools** (Nuno Martins)	
17:00					
17:15					
17:30					
17:45				**Image analysis demos** (Deconvolution and 3D vizualization)	
18:00					
18:15					Final discussion
18:30					
18:45					
19:00					