DATES:			International School on	Shaping light in space and				
14-20 May 2025			time for biomedical imag					
28 slots	5 days		unic for biomedical imaç	Jg.				
20 31013	Day1 : Wednesday	Day2: Thursday	Day3: Friday	Day4: Saturday	Day5: Sunday	Day6: Monday	Day7: Tuesday	
	14-05-25	15-05-25	16-05-25	17-05-25	18-05-25	19-05-25	20-05-25	
		Structured Illumination, S1 -	Non-linear excitation	Ophtalmology - polarization	Imaging through scattering	Computational Imaging		
	ARRIVAL DAY	basics	microscopy, S2	microscopy, S3	media, S4	and Adapive Optics, S5	DEPARTURE DAY	
		principles	principles	principles	principles	principles		
		Rainer Heinzman: principles of	Raluca Niesner: three-	Alberto Di Castro: Biomedical	ALBA PANIAGUA DIAZ:	Hilton De Aguiar:		
		structured illumination	photon microscopy,	imaging of the eye, Eye	Wavefront control in scattering	Computational imaging in		
			principles and	Phsiology, Eye modeling,	media	complex media		
9:00 - 10:00			experiments	Ocular Aberrations				
		Jacopo Bortolotti: Light transport	Chiara Stringari:	Alberto Di Castro: Biomedical	Alexander Jesacher:	Pietro Ferraro,		
		in scattering media	principles of non-linear	imaging of the eye, Ocular	Measuring and shaping	Computational imaging in		
			label free functional	aberrations and Adaptive	wavefronts for improving optical	DHM, tomographic		
			imaging and non-linear	Optics. Intro to OCT	microscopy	reconstruction		
10:00 - 11:00			coherent contrasts.					
11:00-11:30		break	break	break	break	break		
		Llangyi Chen: Quantitative and	Hervé Rigneault:	Andrea Curatolo, Optical	Alexander Jesacher:	Paolo Pozzi: AO for		
		holistic superresolution live-cell	Principles of Coherent	Coherence Tomography:	Application examples of using	microscopy		
		imaging: from structured	Raman microscopy	principles, clinical applications	AO in deep tissue imaging			
		illumination microscopy to the		and research in ophthalmology				
11:30 - 12.30		sparse deconvolution algorithm						
12:30 - 15.00		Lunch break	Lunch break	Lunch break	Lunch break	Lunch break		
		Methods-Applications	Methods-Applications	Methods-Applications	Methods-Applications	Methods-Applications		
		Llangyi Chen: Miniature	Raluca Niesner: 3PE: in	Adrian Podoleanu: The three	Rainer Heinzman: TBD	Hilton de Aguiar:		
			vivo imaging in long	main optical coherence		Computational Raman		
		resolution imaging in freely-	bones and in secondary	tomography (OCT) methods		microscopy		
		behaving mice: our ten years'	lymphoid organs	and their applications				
15:00 - 16:00		journey						
		Ilaria Testa: TBD	H. Rigneault:	Ana Batista:	ALBA PANIAGUA DIAZ: Light	Mario Marini: imaging		
			applications of Coherent	From Diagnosis to Treatment:	wavefront control in	through optical		
			Raman microscopy	leverage Nonlinear Microscopy	ophthalmology	microstructured windows in		
				Imaging in eye Biomedical		vivo		
16:00 - 17:00				Research.				
17:00 - 17:30		break	break	break		break		
		Ilaria Testa: TBD	applications on non-linear label free imaging: second-	Adrian Podoleanu:	Jacopo Bortolotti: Exploiting			
	Welcome		harmonic Generation and	Unconventional OCT (Talbot	speckle correlations for non-			
	session: TBD		third-harmonic Generation	bands, no Fourier Transform	invasive imaging through turbid			
	SESSIOII. IDD		microscopy	and time stretch)	media	Concluding remarks and		
17:30 - 18.30						final discussion		
40.20 20 22	Evening break, get	Evening break, get together in the cellar		Free evening with transport to the	Evening break, get together in the			
18:30 - 20 .30	together in the cellar	**Poster Presentation	the cellar	village	cellar			
			Luigi Bonacina:					
			Nanotechnology and					
		where authors present and discuss						
		their research in front of a poster	Strategies for Enhanced Bioimaging		TBD			
		with participants at a school or workshop, providing a visual and	Dioinaging					
		oral overview of their work.						
20 20 24 20		oral overview of their work.						
20.30-21.30							1	