

	Monday, Oct.14	Tuesday, Oct.15	Wednesday, Oct.16	Thursday, Oct.17	Friday, Oct.18		
<b>8:15-8:45</b>	REGISTRATION	X	X	X	X		
<b>8:45-9:00</b>	Introductory word						
<b>LECTURES</b>	<b>9:00-9:45</b>	Light microscopy instrumentation <i>Pavel Krist</i>	Fluorophores <i>Jan Sýkora</i>	Resolution and superresolution in fluorescence microscopy overview <i>Ivan Novotný</i>	Image formation in transmission electron microscope <i>Oldřich Benada</i>	Introduction to image deconvolution <i>Ivan Novotný</i>	
	<b>9:45-10:30</b>	Contrast-enhancing techniques in optical microscopy <i>Martin Čapek</i>	Introduction to live cell imaging <i>Ivan Novotný</i>	Superresolution in light microscopy: STORM, SIM, STED <i>Ivan Novotný</i>	Scanning electron microscopy <i>Oldřich Benada</i>	Image acquisition by two-photon microscopy <i>David Vondrášek</i>	
	<b>10:30-11:00</b>	Coffe break					
	<b>11:00-11:45</b>	Resolution and image formation in light microscopy <i>Ivan Novotný</i>	Spining disc confocal microscopy <i>Michaela Efenberková</i>	Quantitative phase microscopy <i>Martin Čapek</i>	Preparing samples for TEM <i>Jana Nebesářová</i>	Optical projection tomography <i>Martin Čapek</i>	
	<b>11:45-12:30</b>	Basics of fluorescence microscopy and immunolabeling <i>Pavel Hozák</i>	Light Sheet microscopy <i>Helena Chmelova</i>	Computative high resolution methods <i>Michaela Efenberková</i>	Preparing samples for SEM <i>Jana Nebesářová</i>	Introduction to image processing <i>Jiří Janáček</i>	
	<b>12:30-13:30</b>	LUNCH	LUNCH WORKSHOP	LUNCH	LUNCH	LUNCH	
	<b>13:30-14:15</b>	Multi-dimensional laser confocal microscopy <i>Pavel Hozák</i>	FRAP + FCS <i>Michaela Efenberková</i>	Methodolgy for correct microscopy <i>Ivan Novotný</i>	Advanced electron microscopy techniques <i>Vlada Filimonenko</i>	Image analysis and visualization in 3D <i>Jiří Janáček</i>	
	<b>PRACTICAL DEMONSTRATION</b>	<b>14:30-17:30</b> 4x 45 min	Fluorescence microscope (AxioZoom.V16, room 0.175) <i>ZEISS-Pavel Krist</i>	Confocal Spinning disc (Dragonfly, room 0.171) <i>Ivan Novotný</i>	Superresolution: STED (STED, room 0.174) <i>Ivan Novotný</i>	TEM demonstration <i>Jana Nebesářová</i>	Preparation of digital photographic documentation for publication <i>Oldřich Benada, 45 min</i>
			Confocal Microscope (STED, room 0.174) <i>Ivan Novotný</i>	Light Sheet (Zeiss Z.1, room 0.173) <i>Helena Chmelova</i>	Quantitative Phase Microscope (Qpi, room 0.175) <i>Martin Čapek</i>	SEM demonstration <i>Oldřich Benada</i>	Recap + Evaluation approx. 15 min
			Fluorescence microscope (Leica DM6000, room 0.172) <i>Helena Chmelová</i>	Photo-kinetic: FRAP (OMX, room 0.174 ) <i>Michaela Efenberková</i>	Superresolution: SRRF (Dragonfly, room 0.171) <i>Andor-Alexandr Pospěch</i>	HPF, FS and ultramicrotomy <i>Dominik Pinkas</i>	
Adjusting the microscope: Köhler illumination and Phase contrast + DIC (room 0.173) <i>Pragolab-Martin Kopecký</i>			Live cell imaging (DV, room 0.171) <i>Anastasiya Klebanovych</i>	Superresolution: SIM (OMX, room 0.174) <i>Michaela Efenberková</i>	EM immunolabeling: detection, clustering and colocalization <i>Vlada Filimonenko</i>		