

PROCESSING AND ANALYSIS OF MICROSCOPIC IMAGES IN BIOMEDICINE - PART 2, 17.-20.5.2021						
	Monday 17.5.	Tuesday 18.5.	Wednesday 19.5.			Thursday 20.5.
9:00 - 9:45	Image acquisition conditions and deconvolution <i>Ivan Novotný</i>	I am watching you or what it means "tracking" <i>Michaela Blažíková</i>	Fiji: Macros - Introduction into IJM language <i>Jan Valečka</i>		9:00 - 10:00	Estimation of volume and surface (Point Grid method, Cavalieri's principle and Fakir method) <i>Barbora Radochová</i>
10:00 - 11:00	Huygens: Image deconvolution I <i>Ivan Novotný</i>	Fiji: Tracking - practicals <i>Michaela Blažíková</i>	Fiji: Using macros for data processing and analysis <i>Jan Valečka</i>		10:15 - 11:15	Estimation of length and number of particles (Slicer, Disector) <i>Barbora Radochová</i>
11:15 - 12:00	Huygens: Image deconvolution II <i>Ivan Novotný</i>	Evaluation of colocalisation in microscopic images <i>Martin Čapek</i>	3D image processing and geometrical modelling <i>Jiří Janáček</i>		11:30 - 12:30	3D analysis: Scale setting, 3D image filtration and measurement in Fiji <i>Jiří Janáček</i>
12:00 - 13:00	Lunch	Lunch	Lunch			
13:00 - 13:45	Segmentation methods <i>Martin Čapek</i>	Fiji: Evaluation of colocalisation in microscopic data <i>Martin Čapek</i>	FRAP data analysis <i>Michaela Blažíková</i>		12:45 - 13:45	Triangulated surfaces reconstruction <i>Jiří Janáček</i>
14:00 - 15:00	Fiji: Using segmentation for detection of structures in various microscopic images <i>Martin Čapek</i>	Pattern: Evaluation of colocalisation in EM data / Fiji: Coordinate-based colocalisation in STORM data <i>Vlada Philimonenko / Peter Hobot</i>	Fiji: FRAP data analysis <i>Michaela Blažíková</i>		13:45 - 14:00	Closing words <i>Michaela Blažíková</i>

Theoretical lecture
Practical demonstrations



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