CARS, SHG, THG and STED

IR laser show for cells

Apr 24. – Apr 25., 2019 BIOCEV, Průmyslová 595, Vestec

Preliminary programme

Wednesday, Apr 24.

08:45 - 09:00	Registration
09:00 - 09:05	Welcome and organization details Aleš Benda
09:05 - 09:45	Principles of CARS, SHG a THG Aleš Benda
09:45 - 10:20	Principles of STED and its variants Marie Olšinová
10:20 - 10:35	Coffee break - Hands-on group assignment
10:35 - 11:15	Short presentations of participants – 3 minutes each
11:15 - 11:55	Introduction to deconvolution and spectral unmixing Radek Macháň
11:55 - 12:15	Application of super-resolution STED microscopy in the study of mitochondria transfer in cancer. Jaromíra Kovářová
12:15 - 12:30	CARS, FLIM and <i>C. elegans</i> Zdeněk Kostrouch and Samuel Kaššák
12:30 - 13:30	Lunch
13:30 - 17:00	Hands-on – 1st rotation, CARS+SHG+THG, RESCue-STED, Data analysis

Thursday, Apr 25.

09:00 - 12:30 Hands-on - 2nd rotation, RESCue-STED, Data analysis, CARS+SHG+THG 10:30 - 10:45 Coffee break 12:30 - 13:30 Lunch 13:30 - 17:00 Hands-on - 3rd rotation, Data analysis, CARS+SHG+THG, RESCue-STED

15:00 - 15:15 Coffee break

15:00 - 15:15 Coffee break

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