

# SUPER-RESOLUTION 2021



December 7-9, 2021

Institute of Molecular Genetics of the Czech Academy of Sciences  
Prague | Czech Republic

<https://www.img.cas.cz/events/courses/>



maximizing of the spatial resolution with **confocal** scanning microscope

adaptive deconvolution **Lightning** improves the image resolution

real time super-resolution **SRRF-Stream** on spinning disc confocal microscope

classical **SIM** ... and **Lattice SIM** new structured illumination concept of superfast imaging

**Lattice SIM<sup>2</sup>** with enhanced resolution in structured illumination microscopy

pulse versus continuous wave depletion laser in **STED** nanoscopy

single molecule localization microscopy with **3D PALM** module