



BPS2023

67th Biophysical Society Annual Meeting
February 18–22, 2023



Sunday, February 19

10:30 AM – 12:00 PM

Room 10

Carl Zeiss Microscopy LLC

Discover How Accessible Lattice Light Sheet Technology and Image Analysis Really Are With ZEISS Lattice Lightsheet 7

In order to best understand the world around us it is necessary to observe microscopic specimens in as natural a state as possible. This requires a transition from imaging fixed to live specimens and expanding from 2D to 3D model organisms. The drive towards live-cell imaging over long timeframes and at high volume speeds brings new challenges. There is evidence that traditional imaging techniques can influence the behavior of specimens due to phototoxicity, thus affecting the integrity of the results, and with the push to perform long-term volumetric imaging comes a need to analyze increasingly larger data sets.

This talk will describe how ZEISS Lattice Lightsheet 7 makes long-term volumetric imaging of living cells with subcellular resolution possible without having to change your standard sample preparation protocols to accommodate the instrument. With automatic alignment and easy acquisition workflows, lattice light-sheet imaging is now as accessible as using a standard inverted microscope. ZEISS ZEN microscopy software and arivis Vision4D provide analysis pipelines which can easily be utilized to go from large image datasets to results.

Join us for this presentation to learn how accessible lattice light sheet technology and image analysis really are with ZEISS Lattice Lightsheet 7, ZEN microscopy software and arivis Vision 4D.

Speaker

Renée Dalrymple, Life Science Business Sector Marketing Manager, Carl Zeiss Microscopy LLC