

Correlative Workflows in Life Science

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“In this talk we will present a vision for the future of microscopy, showing new ways of correlative microscopy to manage data acquisition, image correlation, and organization of data from various sources. The challenge lies in combining data across different scales, bridging the millimeter to nanometer gap, different modalities, from fluorescence to electron microscopy, different dimensions, instruments and users.

Conventional microscopy is operator driven: a user sits in front of the microscope, tunes setting and once finished with all calibrations and alignments on the instrument site, hunts for interesting areas on the sample, screening and from time to time saving individual images.

Modern Microscopy is data driven and shifts the focus of the researcher to results interpretation. This is possible due to technological innovations with integrated solutions that allow to correlate data in a seamless workflow from sample preparation to image analysis through Optical, Electron and X-Ray Microscopy.”