



INVITATION TO SEMINAR AND HANDS-ON DEMO

3D LABEL-FREE HOLOTOMOGRAPHIC LIVE CELL MICROSCOPY WITH THE 3D CELL EXPLORER

Observe living cells and the dynamics of subcellular compartments in high resolution and in 3D – in high contrast and without any staining or labelling.

HIGHLIGHTS:

Label-free live cell imaging reveals unique dynamics of cellular organelles and highly dynamic cellular structures, such as

mitochondria, lipid droplets, filopodia, dendrites, axons, nucleus and nucleoli etc without any staining or preparation. The 3D Cell Explorer generates **no phototoxicity** as it needs by an order of magnitude less energy than light sheet microscopes or confocal laser scanning microscopes thereby enabling long-term imaging of fine cellular dynamics. With a lateral resolution of 195nm it allows **high resolution** imaging of cellular and sub-cellular structures. The whole sample volume is imaged in one acquisition using a **fraction of time** required by other techniques. **3D** holographic rendering allows fast and easy **visualisation** as well as **quantitative data** extraction.

With Nanolive's live cell imaging tool, it is possible to perform **long time live imaging** at **high acquisition speed** obtaining high resolution 3D data. This exceeds any live cell imaging capabilities of any other microscope and shows the potential to revolutionize live cell imaging.

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