

OPTICS

from image to knowledge



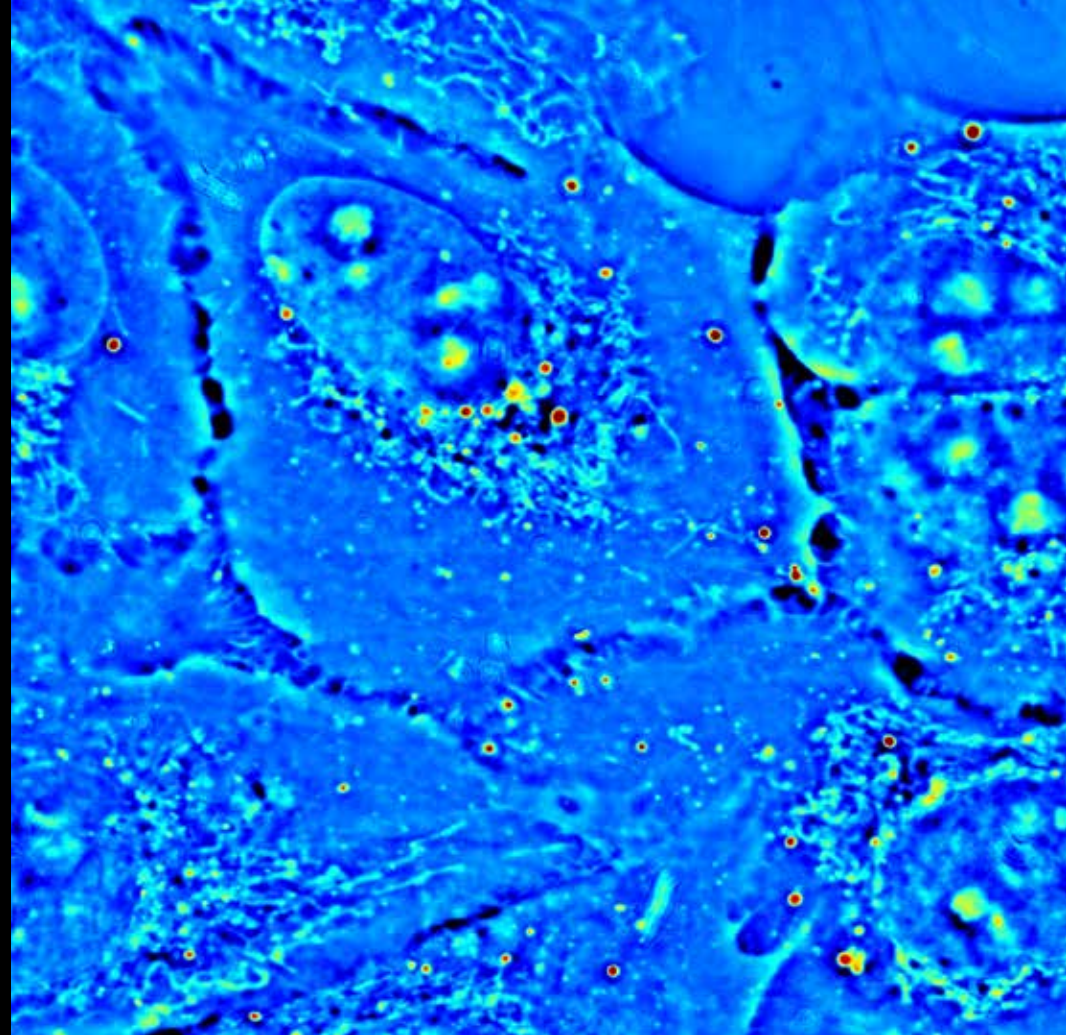
PHI OPTICS is proudly represented in
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www.phioptics.com

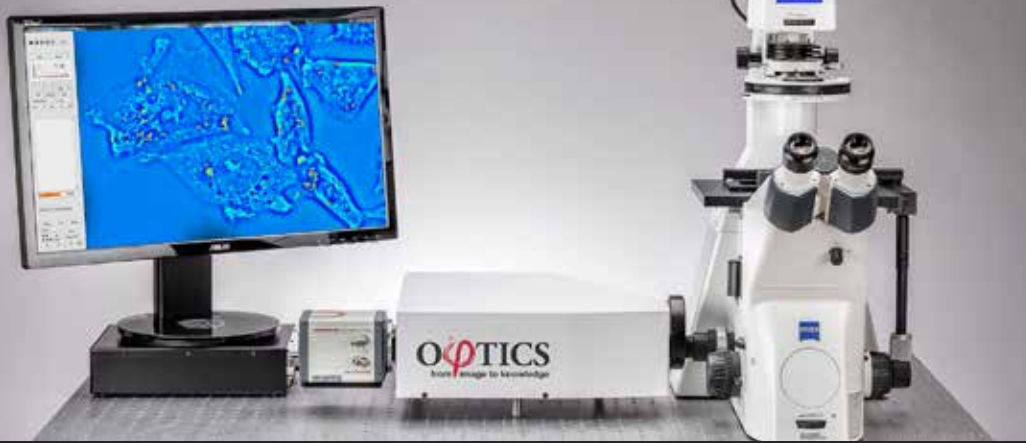
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slim spatial light
interference microscopy

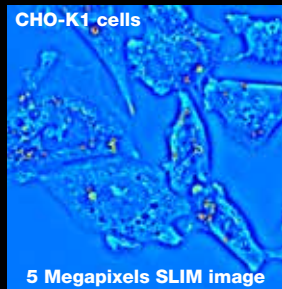
Highest resolution.
Quantitative phase microscope.
Ever.



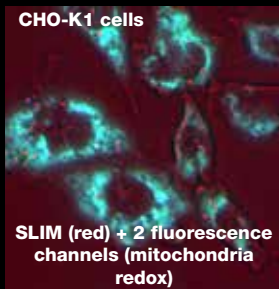
Phi Optics SLIM technology provides faster and more accurate imaging of live cells than currently possible:

- Non-invasive: no sample preparation
- Quantitative measurements: thickness (nanometer sensitivity), dry mass (femtogram sensitivity), and refractive index
- Label free: continuous imaging from milliseconds to days
- Integrates with existing research grade microscopes

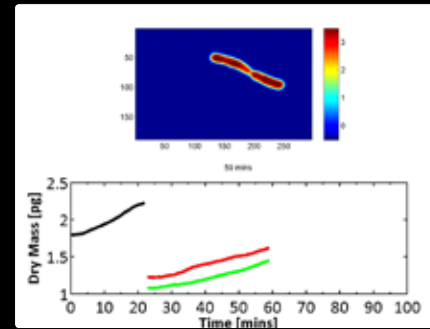
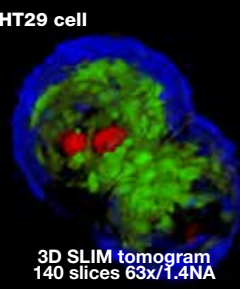
Full camera resolution



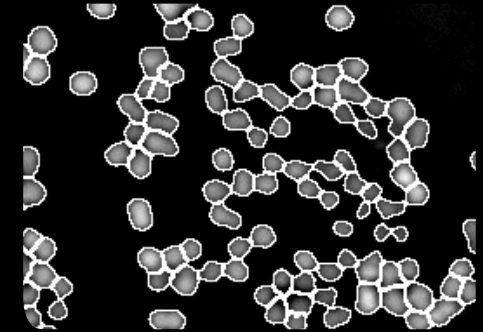
Fluorescence overlay



3D tomography



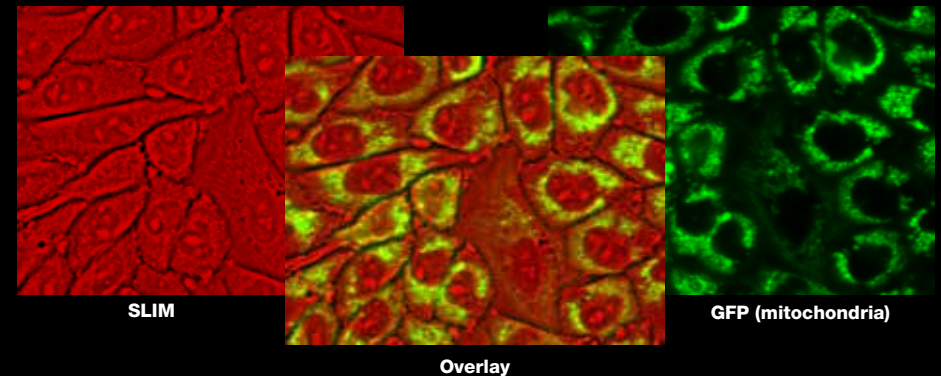
Quantitative monitoring of *E. coli* cell growth



Cell segmentation *N. meningitidis* culture

CellVista software platform:

- Programmed 4D (tiling, z-scan, time series) scanning and acquisition at up to 12fps with full camera resolution
- Multichannel imaging (including fluorescence channels) with seamless overlay
- Quick and easy segmentation of cells
- ImageJ-based toolkit for image analysis



Phi Optics patented technology - Spatial Light Interference Microscopy (SLIM) is implemented as an add-on to all major brand optical microscopes (10X to 100X magnifications). It connects to the camera port and uses the white-light illumination source of the microscope.

Applications include:

- Cell growth
- Cell dynamics
- Neuroscience
- Blood testing
- Tissue imaging

