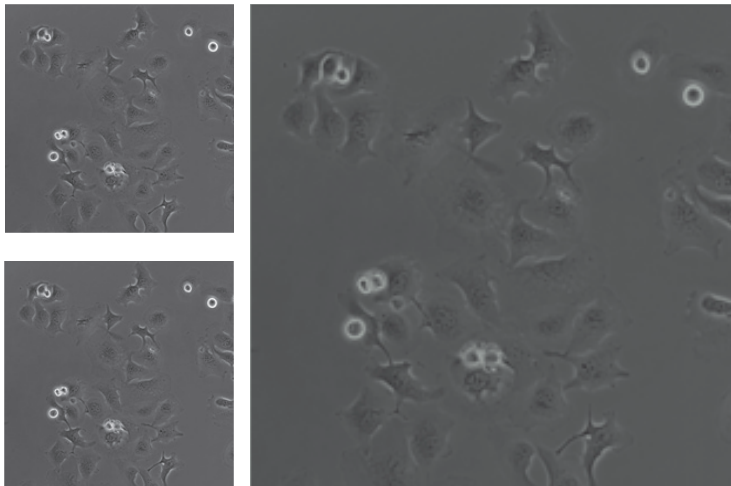


APPLICATION: Advanced Cell Imaging

State of the art live cell imaging, including *in vivo* imaging at high resolutions, is used to obtain high quality images of cells for use in cancer research. The images must be suitable for quantitative analysis.



Phase contrast images of cells captured during mitosis.
 Courtesy Dr Reichelt.

Using mathematical image processing software the length and outcome of the mitotic phase, and the mitotic index analysis, are determined. These are important measurements in cancer research.

CHALLENGE: Expose cells to as little light as possible, and revisiting multiple sites over a long time lapse experiment

SOLUTION: ProScan[®] III controller, inverted stage, and shutters

The H117 ProScan inverted stage and shutters are both controlled via the ProScan III controller which is easily integrated into the image acquisition software, allowing the entire imaging process to be automated.

The shutters can open and close in less than 10 ms, ensuring that the cells are exposed to as little light as possible, and the exceptional repeatability of the ProScan stage ensures that multiple sites can be accurately imaged over the course of the experiment.



“The Prior shutters are fast and reliable and cells can be imaged on the set-up for several days.”

Dr Stefanie Reichelt
 Head of Light Microscopy
 Cambridge Cancer Centre, UK