

# CytoSMART Multi Lux

## Long term live cell imaging for comparison studies and large lab team

The CytoSMART Multi Lux is an automated live-cell imaging system, designed for long-term comparison studies and large laboratory teams. Combining the capabilities of four compact Lux2 devices into one system to increase throughput and lab functionality. All devices connect to a single laptop optimizing lab space. Data of running experiments can be accessed remotely from the comfort of your home.



### Compare cell cultures, supported by automated image analysis and visualization

The CytoSMART Multi Lux allows researchers to kinetically monitor up to four different cell culture experiments at perfect culture conditions without disturbing the cells. This increases throughput, results in increased accuracy and a more efficient workflow. Multi Lux is ideal for comparison studies of e.g. oncology, immunology, neuroscience, and stem cell research. CytoSMART also offers cloud-based image analysis for various applications such as cell growth, wound healing, cytotoxicity, cell migration, cytopathic effect assays, and more.

### Application example: Scratch assay to investigate drug concentration effects

The CytoSMART Multi Lux enables the user to create time-lapse videos to investigate a wide range of kinetic processes. Figure 1 displays the concentration-dependent effect of Blebbistatin on collective cell migration. Four Lux2 devices simultaneously monitored scratch closure inside a standard CO<sub>2</sub>-incubator for 24 hours.

### Long term live cell imaging solution

CytoSMART technology enables long-term observation of living cells and visualization of dynamic biological processes. It allows scientists to run experiments for days, weeks, or longer without unnecessary exposure to environmental stress, such as change of temperature, humidity, or CO<sub>2</sub>-levels.

<https://cytosmart.com/products/cytosmart-multi-lux>

\*Research use only. Not intended for diagnostic purposes

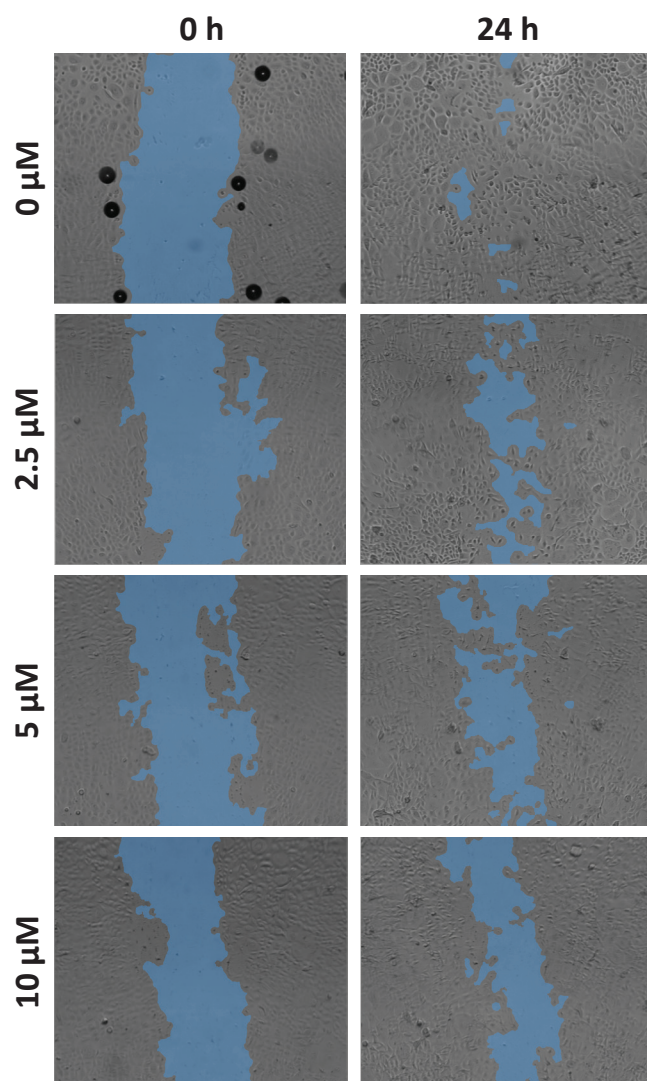


Figure 1. A study of the effect of Blebbistatin on collective cell migration. Scratches were made in keratinocyte monolayers and imaged at 1 h time intervals for 24 h using the Multi Lux. Images were uploaded to the CytoSMART Cloud and directly analyzed with the CytoSMART Scratch algorithm, to get insight into scratch closure and migration speed. The higher the blebbistatin concentration, the lower the migration speed.

