

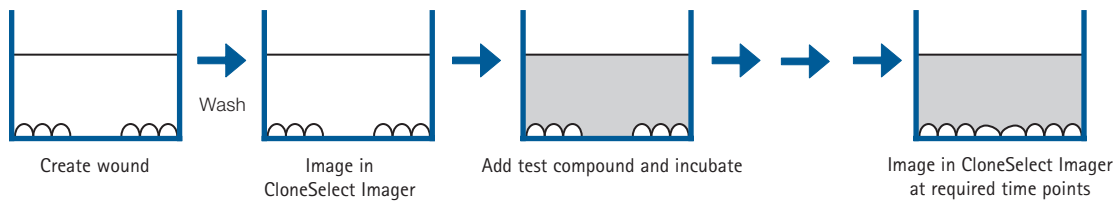
Objective quantification of cell migration on the CloneSelect Imager System



Background

Cell migration is a key process in normal development, immune function and wound healing. Abnormal cell migration is a feature of conditions such as cardiovascular disease and cancer. The CloneSelect Imager System reveals the *in vitro* effects of therapeutic candidates and cell culture matrices on cell migration as well as the study of cell-to-cell interactions. Migration application software in CloneSelect Imager System enables measurement of cell migration based on objective cell detection.

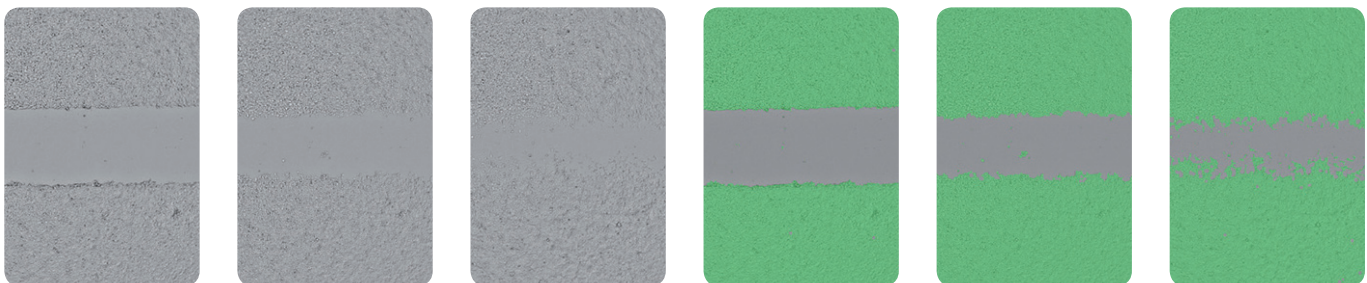
Method



Benefits

- Rapid scanning to monitor cell migration
- High quality imaging and label-free detection of living cells using white light

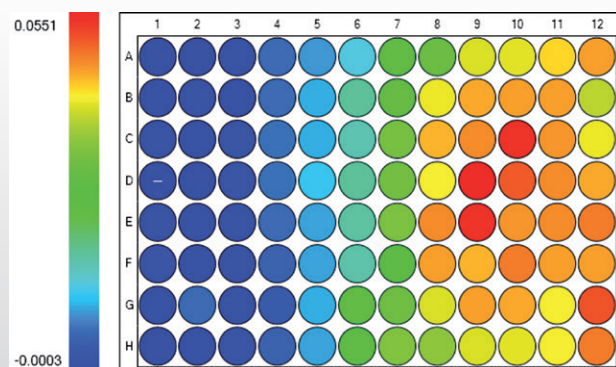
Image capture and analysis



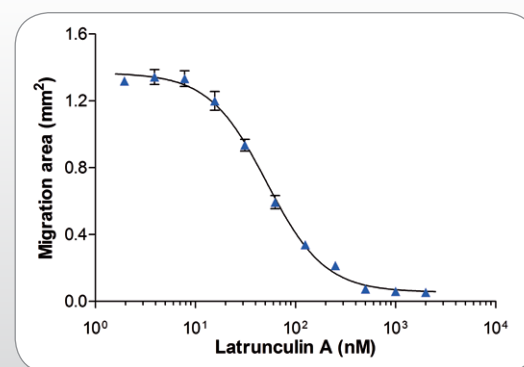
Label-free imaging of cells over time

Detection of cell area by migration application software

High quality data generation



Heat-map representation of cell migration across plate



Dose-response curve generated from exported image analysis data

Objective, quantitative assessment of cell growth

The CloneSelect Imager System utilizes non-invasive, white light imaging to enable rapid, quantitative measurement of cell confluence and generation of growth curves well by well.

Fast results :

- Replace time-consuming manual inspection
- Make confident, image-driven decisions
- Obtain consistent results in under three minutes per 96-well plate

For applications including:

- Rapid confluence measurement
- Growth curve generation
- Cell number estimation
- Verification of monoclonality
- Colony forming assays
- Cell migration assays

Key parameters:

- Accepts multi-plate formats from single well to 384-well
- 4x objective lens
- Resolution to 1.8 μm
- Integrated barcode reader

Objective analysis

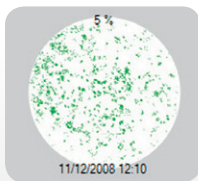


Productivity easily increased

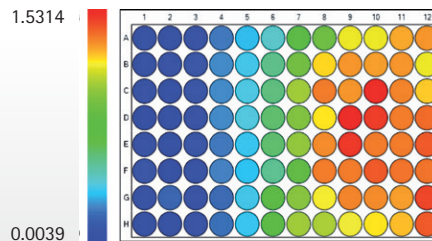


Compatible with a range of robotic systems

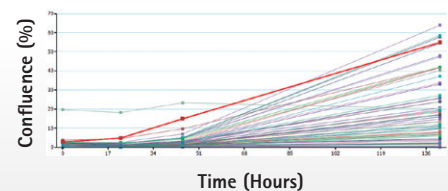
Rapid image generation and clear data analysis



Simple overlay reveals cell confluence



Heat maps facilitate analysis



Growth rates for every well viewed at every time point

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