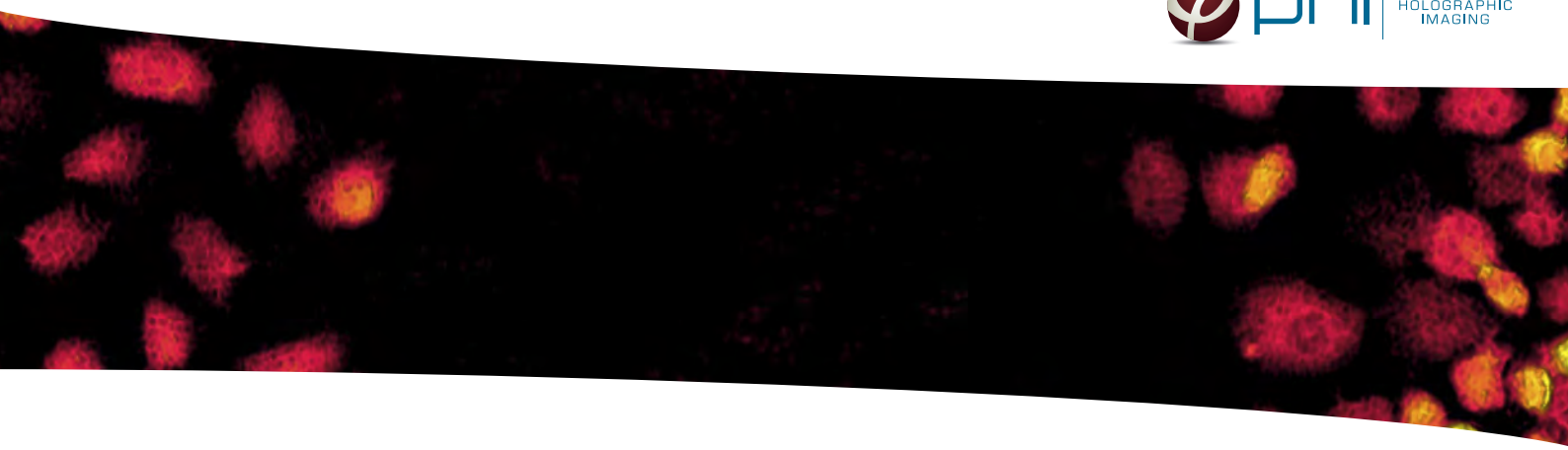


## HoloMonitor® M4

# Wound Healing Assay

### CLOSE THE GAP

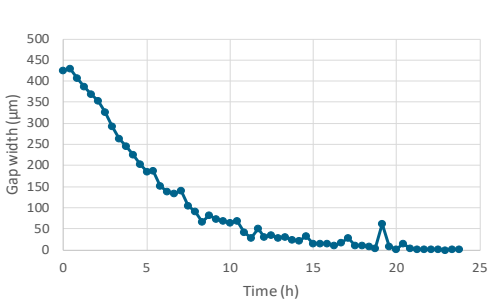
Wound healing assays are long-established process to study coordinated cell migration that occurs *in vivo* during normal or pathological conditions. The **HoloMonitor® Wound Healing Assay** reveals gap closure data not only for cell populations, but also for individual cells. Cells at the edge of the gap can be tracked and characterized, and non-biased data on cell migration into the wound area are easily achieved.

As all HoloMonitor applications, the wound healing assay is based on label-free live-cell imaging. The incubator-compatible design enables long-term kinetic cell behavior studies.

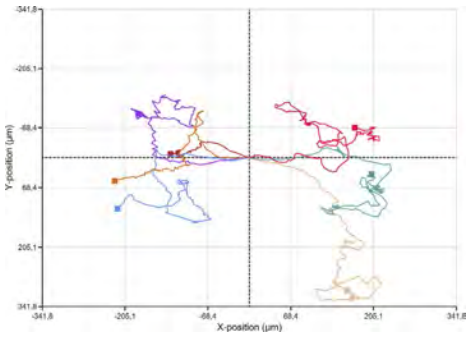
### DATA ANALYSIS – GET THE WHOLE PICTURE

The assay is suitable for adherent cells and enables multiparameter quantative analysis:

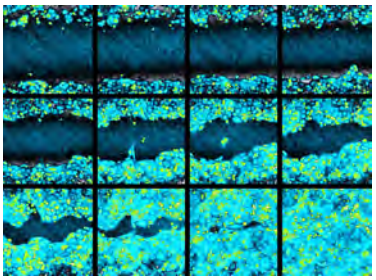
- Cell-friendly wound healing set-up and **label-free** analysis.
- **Time-lapse** videos illustrating how cells migrate into the gap.
- **Semi-automated** analysis of gap closure over time.
- **Cell front velocity**.
- **Motility and migration** of selected cells at the wound edge.




Time-dependent changes of the gap width (µm) due to cell migration into the open area.




Scatter plot showing the direction of cell migration at the left and right edge of the gap, respectively.

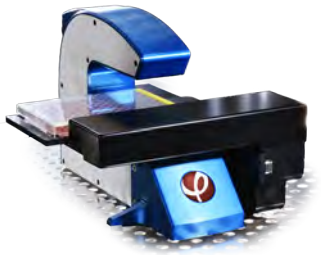


Gap closure over time. Untreated cells moving into the wound, which is created using the ibidi Culture-Insert 2 Well.

### HOLOMONITOR SYSTEM

With HoloMonitor, cellular behavior, responses and events can easily and continuously be visualized and quantified over time.

Microscopy images are recorded directly in the cell culture vessel at regular time intervals, to not overlook any significant events. A holographic microscope with a motorized stage is used to capture time-lapse holographic phase images of your cells.



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