PHASE HOLOGRAPHIC IMAGING
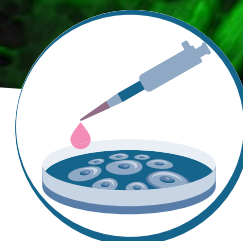
HoloMonitor® App Suite
Kinetic Dose Response Assay

Understanding cell response to different drugs and doses over time is essential when developing effective treatment strategies in cancer research or pharmacology.

The dose response curve is a vital result in drug screening and preclinic research. It allows to determine the drug efficiency and potency in vitro and may provide guidance for future studies. Additionally, knowledge of drug effects on cell population morphology, facilitates advances in drug development and future disease treatments.

DESCRIPTION

The HoloMonitor® Kinetic Dose Response Assay is designed for automated and detailed analysis of drug responses in adherent cells. Cells are automatically identified and counted by the software. Results are displayed as an interactive dose response curve, where results for each condition can be displayed for any selected time point. In addition, our software presents cell count, confluence and mean cell volume over time, including statistics for each treatment.

HOLOMONITOR APP SUITE

HoloMonitor® App Suite is a proprietary software for analysis of images and data generated by the HoloMonitor® M4 base unit. HoloMonitor® App Suite focuses on biological applications and enables researchers within all levels of cell biology to easily perform live-cell studies on various cellular events.

FURTHER INFORMATION

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Dose response curves for each condition at each time point, based on cell count
Kinetic data given as values per condition

Mean cell volume (μm^3)
Cell confluence (%)
Cell count (cells/cm^2)