Introducing Incucyte® Proliferation Assays for Live-Cell Analysis

With Incucyte® Proliferation Assays and AI Label-Free Cell Segmentation, You Can:

- Identify and segment cells reliably and label-free
- Conduct real-time, robust image analysis for high-throughput compound testing
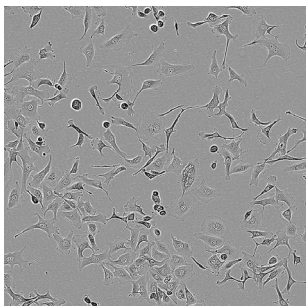- Quantify proliferation and multiplex with other cell health dyes—in mono- or co-cultures

Measure Cell Proliferation Robustly with Integrated and Automated Analysis

The Incucyte® Base Analysis Software employs both Artificial Intelligence (AI) and Classic Confluence Analysis with fully automated acquisition and identification of non-adherent or adherent cells to measure confluence in a physiologically relevant environment.
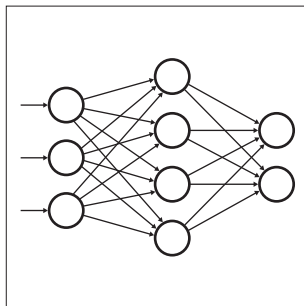
An AI-driven confluence analysis workflow offers accurate, objective analysis of cells and is trained to adapt to a wide range of cell types and morphologies while requiring less user input.
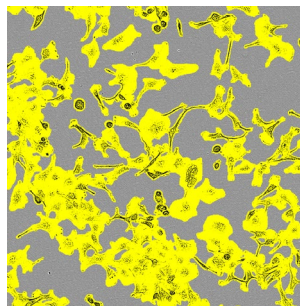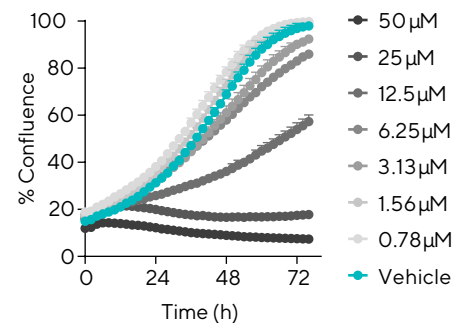
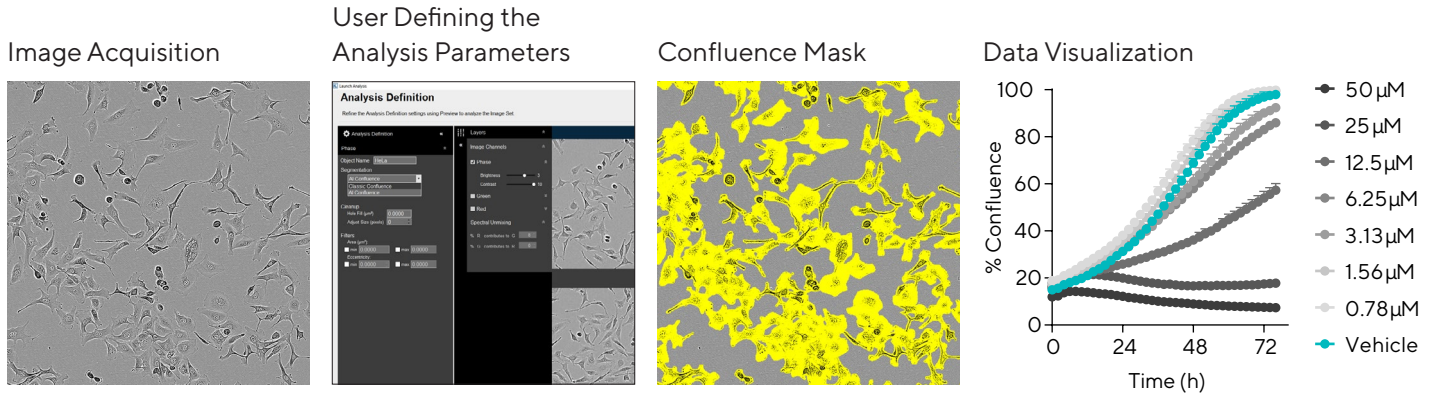### Image Acquisition

AI—Neural Network

Confluence Mask

Data Visualization

% Confluence vs Time (h)

- 50 µM
- 25 µM
- 12.5 µM
- 6.25 µM
- 3.13 µM
- 1.56 µM
- 0.78 µM
- Vehicle

**Find out more:** www.sartorius.com/incucyte-proliferation

A classic confluence analysis workflow incorporates user-defined segmentation based on experimental conditions. Fluorescence image acquisition and analysis of cell health or viability assays are also available with Incucyte® Base Analysis Software, using classic analysis definitions.

Image Acquisition

User Defining the Analysis Parameters

Confluence Mask

Data Visualization

- 50 µM
- 25 µM
- 12.5 µM
- 6.25 µM
- 3.13 µM
- 1.56 µM
- 0.78 µM
- Vehicle

Kinetically Monitor and Conduct Robust Analysis of Cell Confluence with High-Throughput

Robust Segmentation of Cell Confluence Using AI Confluence Analysis

A549

SKOV3
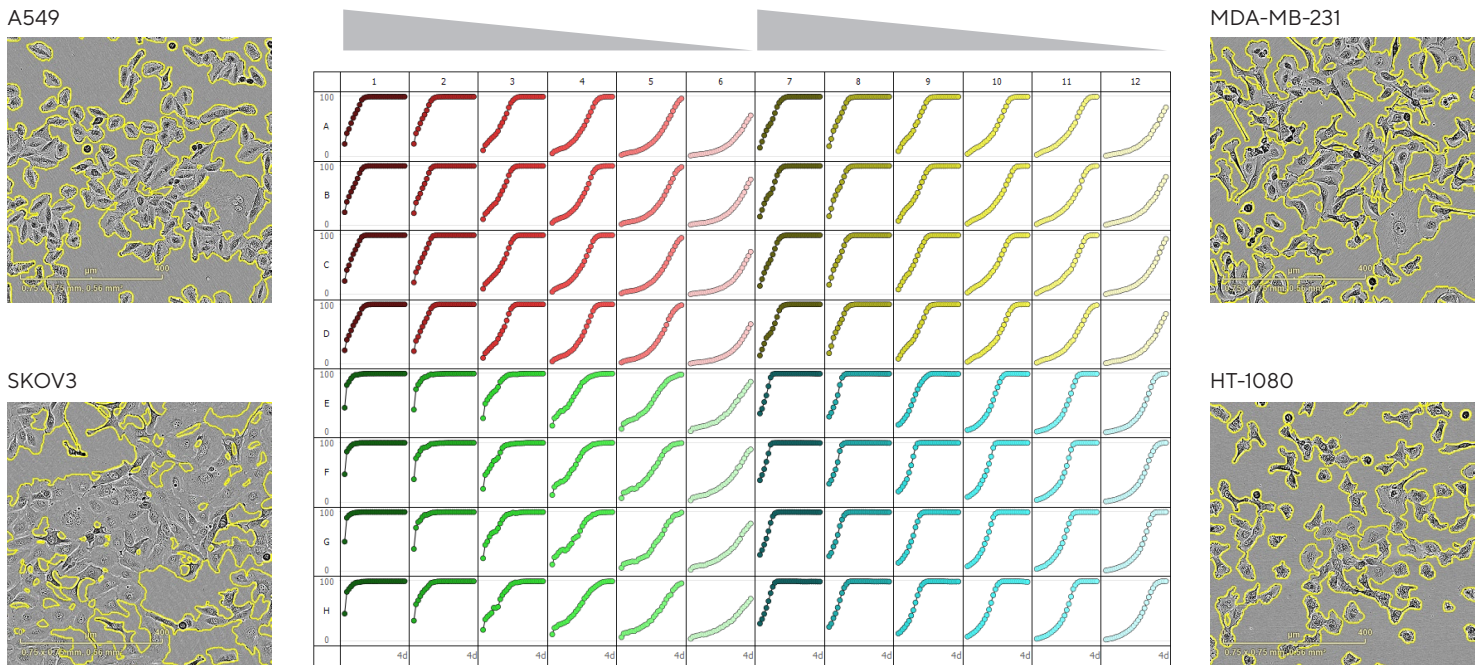
MDA-MB-231

HT-1080

Note. A549, MDA-MB-231, SKOV3 and HT-1080 cells were seeded into a 96-well plate at a range of densities (0.5–10 K cells/well). High definition (HD) phase-contrast images were acquired every 2 hours and cell proliferation was measured over 4 days. Yellow outline indicates AI Confluence segmentation and plate view reports % Confluence over 4 days.

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