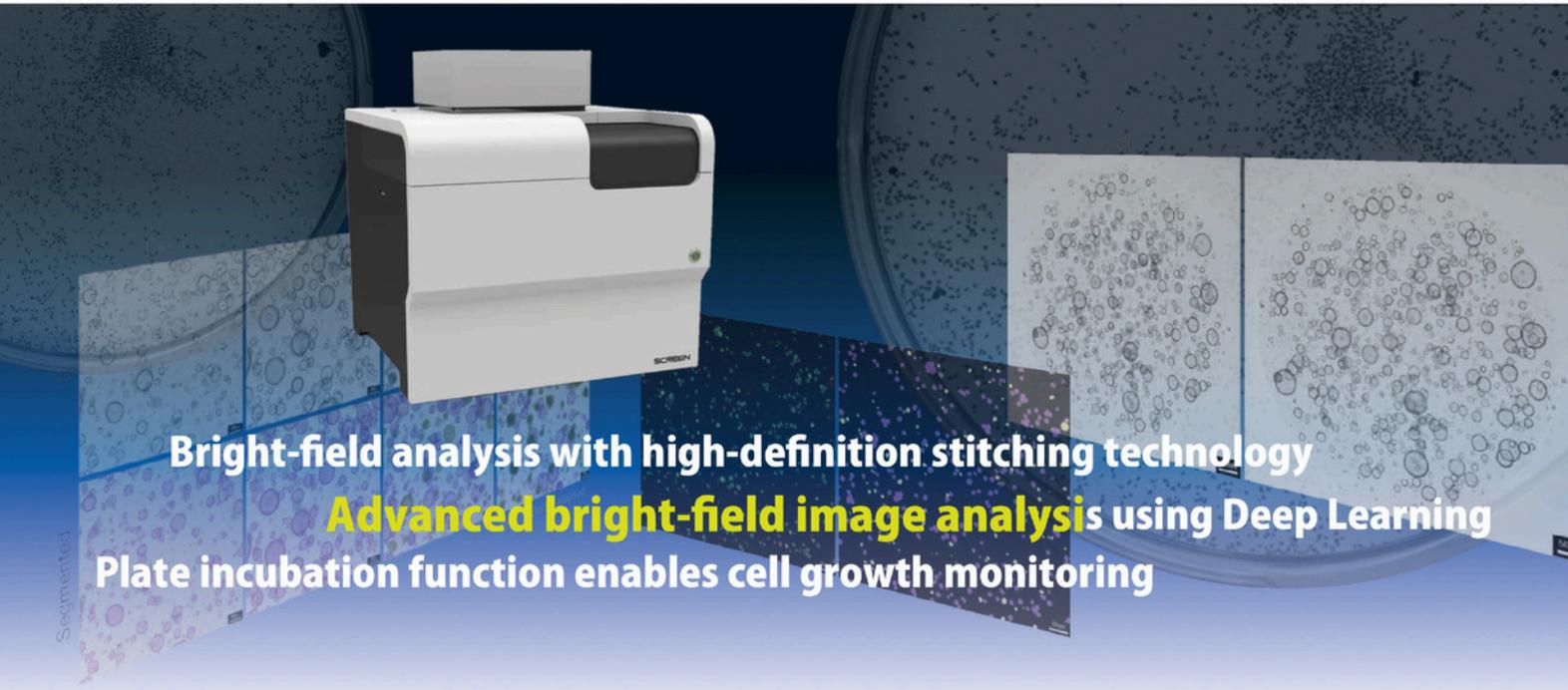**izibio**

High-throughput Imager for Quantitative Analysis cells cultured in 2D and 3D environment

CELL 3 IMAGER NX
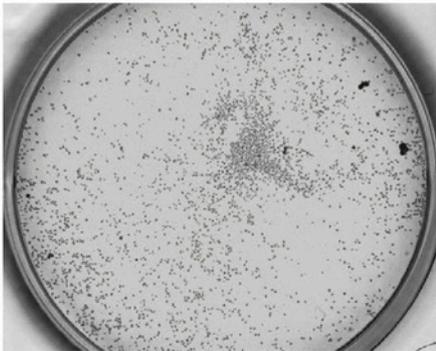
Bright-field analysis with high-definition stitching technology

Advanced bright-field image analysis using Deep Learning

Plate incubation function enables cell growth monitoring

High-definition stitching with advanced image processing technology


Accurate single-cell cloning analysis

Accurately analyze complex brightfield analysis such as organoids

Whole-well imaging with a high-magnification lens requires multiple shots to be taken and stitched together. With this system, the stitching is so fine that even if multiple shots are stitched together, the joints are barely discernible.

All-in-focus images optimal for 3D cultured cell analysis can be acquired
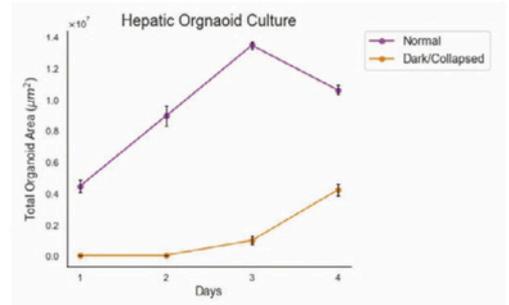

1 Layer   Z-Stack
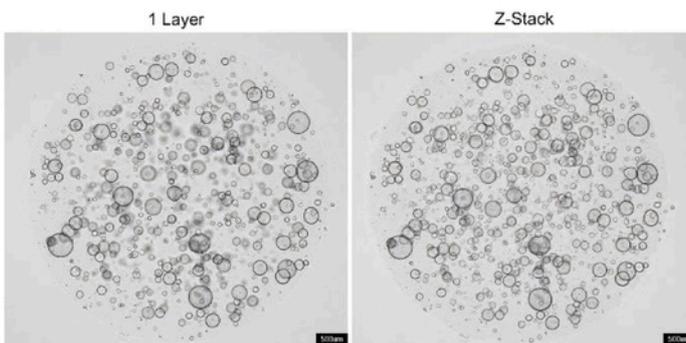
Multiple images are captured while varying the focus in the Z direction and combined into a single image

Supports various SBS plate formats such as F-bottom, V-bottom, U-bottom, etc.

Deep learning enables extraction and measurement of each organoid form (option)

Day 1   Day 2   Day 3   Day 4

BF

Segmented

Normal   Dark/Collapsed
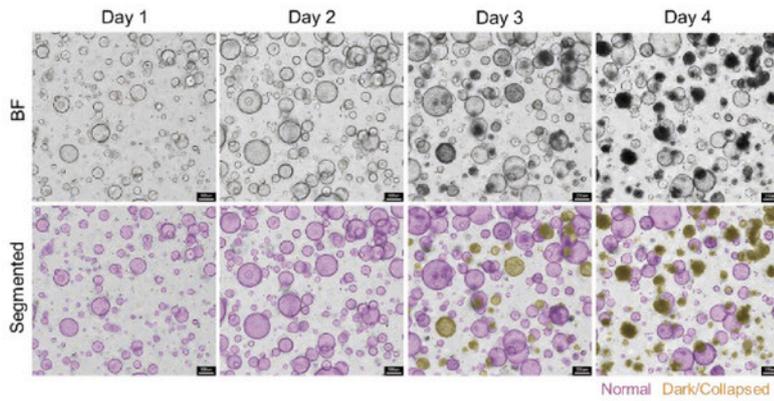
Segmentation and quantification of Organoids grown above the reference value

Hepatic Orgnaoid Culture

Normal
Dark/Collapsed

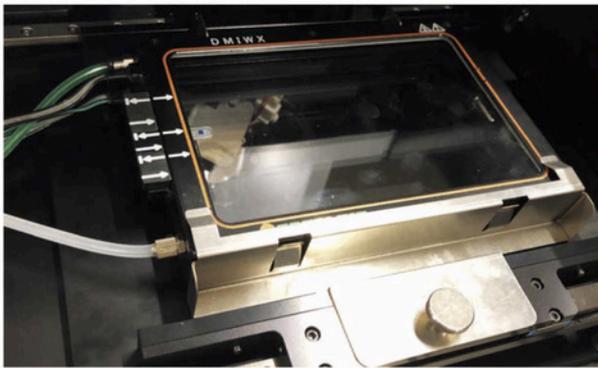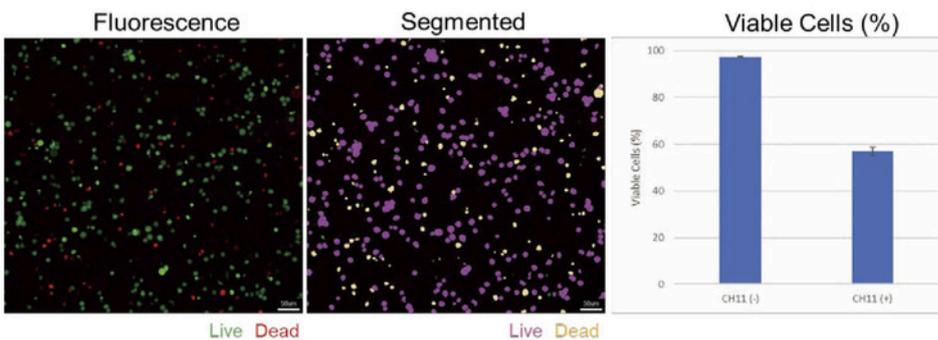## High-definition stitching with advanced image processing technology

Plate-type incubator can be mounted for cell growth monitoring

Using the culture system for microscope manufactured by Tokai Hit Co., Ltd.

Support for multi-fluorescence analysis in increasingly complex screening

Fluorescence   Segmented   Viable Cells (%)

Live Dead   Live Dead

CH11 (-)   CH11 (+)

Multi-channel fluorescence imaging of floating cells

Extract images by channel and quantify survival rate