Pre-determined positioning

Extremely user-friendly

High throughput

Single focal plane

Gri3D®

Elevate your organoid research

Standard and Custom Gri3D® Products

Ready-to-use and Automation-friendly

Traditional organoid culture

Organoid culture on Gri3D®

Different organoid size

Homogeneous organoid size

Multiple focal planes

Single focal plane

Organoids ECM-embedded

Organoids in suspension

Random positioning in X, Y

Pre-determined positioning

Low throughput

High throughput

Training required

Extremely user-friendly

Perform your media change without tissue loss, thanks to our unique pipetting port

… And let biology do the rest!

Choose the bottom of your choice

Standard Sizes

6W in 96WP

24 WP

μwell ø (μm)

IBIDI (0.18 mm)

Plastic (1 mm)

Black or Clear Walls

Sample Plate

Phalloidin

DAPI

IBIDI (0.18 mm)

Plastic (1 mm)

Ready-to-use and Automation-friendly

Cell-repellent PEG hydrogel

Aspirate buffer

Add medium

Aspirate medium

50 μl medium

150 μl medium

And let biology do the rest!

Empowering your Imaging

Organoids ECM-embedded

Organoids in suspension

Round-bottom microcavities

Pipetting port

Bottom: Plastic 1 mm

IBIDI 180 μm

Perform your media change without tissue loss, thanks to our unique pipetting port

Add medium

Aspirate medium

Perform your media change without tissue loss, thanks to our unique pipetting port

50 µl medium

150 µl medium

And let biology do the rest!

… And let biology do the rest!

50 µl medium

150 µl medium

And let biology do the rest!
Gri3D®: One Platform - Endless Possibilities

**BLOOD-BRAIN BARRIER**
Cells: human primary astrocytes, pericytes, and endothelial cells - 1:1:1 ratio
3000 cells per microwell
Time of culture: 3-5 days
Gri3D format: Gri3D® 96WP 600 µm
Simonneau et al., 2021

**LIVER**
Cells: iPSC-derived hepatocytes, endothelial cells, and stellate cells - 10:3:1 ratio
4200 cells per microwell
Time of culture: up to 1 month
Gri3D format: Gri3D® 96WP 500 µm
Meseguer-Ripolles et al., 2021

**INTESTINE**
Cells: human adult stem cell-derived intestinal organoids
200 cells per microwell
Time of culture: 7 days
Gri3D format: Gri3D® 96WP 500 µm
Brandenberg et al., 2020

**GASTRUloid**
Cells: human pluripotent stem cells
45 cells per microwell
Time of culture: 3-4 days
Gri3D format: Gri3D® 96WP 200 µm
Khoei et al., 2023

**RETINA**
Cells: mouse embryonic stem cells
300 cells per microwell
Time of culture: 26 days
Gri3D format: Gri3D® 96WP 1600 µm
Decembrini et al., 2020

**MELANOMA**
Cells: mouse primary melanocytes (seeded fresh from biopsy)
500 cells per microwell
Time of culture: 1-2 weeks
Gri3D format: Gri3D® 96WP 500 µm

**PANCREAS**
Cells: human pancreatic adenocarcinoma patient-derived organoids
200 cells per microwell
Time of culture: 1 week
Gri3D format: Gri3D® 96WP 500 µm
Roch et al., ISSCR 2022 - Poster

**(IMMUNO)-ONCOLOGY**
Cells: human colorectal cancer derived, and tumor-infiltrating lymphocytes at different ratios
200 cells per microwell
Time of culture: 1 week
Gri3D format: Gri3D® 96WP 500 µm
Dutta et al., 2021

**BONE MARROW**
Cells: HUVECs* + mesenchymal stem cells - 75:25 ratio, addition of HSPC** at different ratios
500 cells per microwell
Time of culture: 1 week
Gri3D format: Gri3D® 96WP 400 µm
Giger et al., 2022

*Human umbilical vein endothelial cells / **Hematopoietic stem and progenitor cells

**SITE OF THE BIOLOGY CENTER**
SUN BIOSCIENCE