

NEW CELL CULTURE STANDARD

Invigorating the world through cell culture



What is InnoCell™?

InnoCell™ is a next-generation cell culture products and services developed highlighting the specialized characteristics of Mitsui Chemicals' functional materials.

Invigorating the world through cell culture

Mitsui Chemicals has continually sought out earth's unique resources.

By combining leading edge technology and innovative ideas,
Mitsui Chemicals has created valuable materials.

We evaluated how our unique materials can further contribute to
the greater societal good and to bring joy to our customers
in the way only Mitsui Chemicals can.

Our next challenge is to bring innovation to the life sciences
by harnessing the power of chemistry.

Mitsui Chemicals will continue to provide innovative solutions
for cell culture to researchers and all who wait
for advancements in the world.

What kind of future will proliferate through advances in cell culture?

Invigorating the world through cell culture.

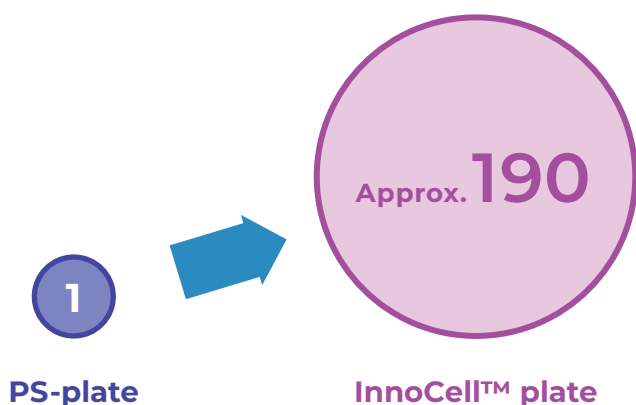


Oxygen Permeability Control 1

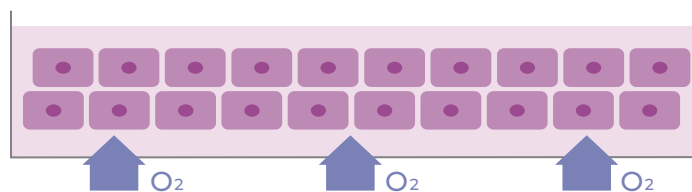
Mitsui Chemicals' original material × Precision processing technology

• Data obtained by Mitsui Chemicals

Relative Comparison of Oxygen Permeability



Efficient oxygen supply from the culture bottom



Conditions

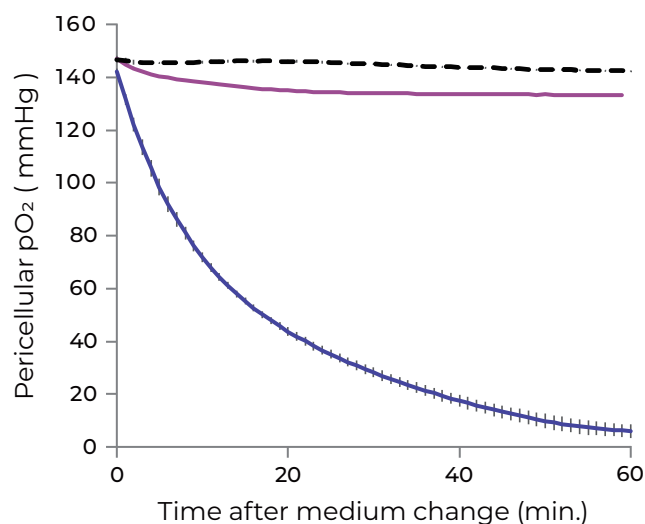
[Plate type] InnoCell™ plate FP series (flat bottom)

Utilizing Mitsui Chemicals' original material × precision processing technology, InnoCell™ plate can supply approximately 190 times more oxygen to cells compared to conventional polystyrene plates.

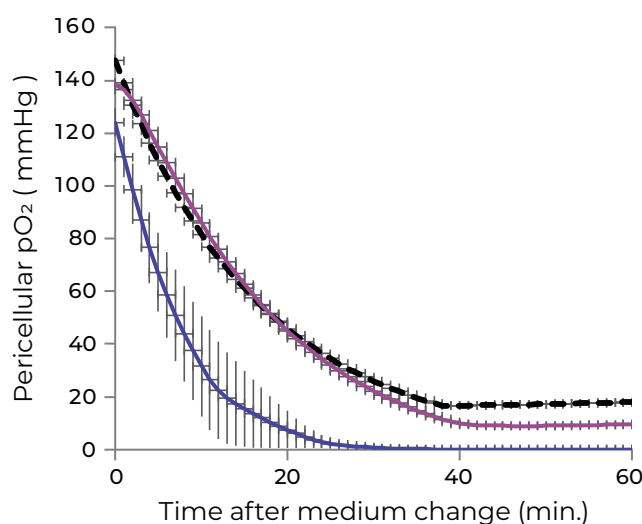
Changes in oxygen concentration near cells

• Data obtained by Mitsui Chemicals

20% O₂ concentration in incubator



3% O₂ concentration in incubator



■ PS-plate ■ InnoCell™ plate ■ Medium only (without cells)

Conditions

[Cell] Frozen rat hepatocytes
 [Number of seedings] 1.0×10^5 cells / cm²
 [Culture period] 1 day
 [Plate type] InnoCell™ plate FP series (flat bottom)
 Collagen-coated (C type)

InnoCell™ plate can precisely reflect the setting oxygen concentration of the incubator.

[Abbreviation] · PS : Polystyrene · FEP : Fluorinated Ethylene Propylene copolymer · PDMS : Poly (dimethylsiloxane) · COC : Cyclic Olefin Copolymer



Oxygen Permeability Control 2

High-density culture of frozen rat hepatocytes

• Data obtained by Mitsui Chemicals

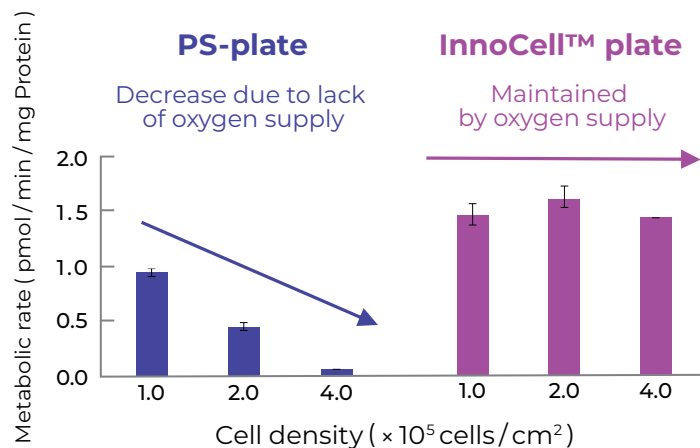
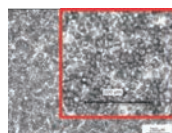
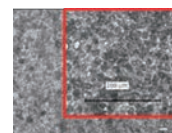


Image (4.0×10^5 cells/cm²)



PS-plate



InnoCell™ plate

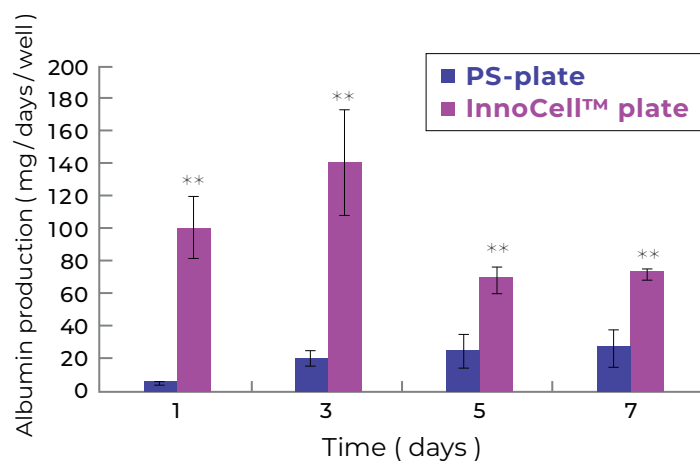
Conditions

[Cell] Frozen rat hepatocytes
[Culture period] 1 day
[Plate type] InnoCell™ plate FP series (flat bottom)
Collagen-coated (C type)

InnoCell™ plate can be cultured hepatocyte at high density while maintaining metabolic activity.

Culture of primary rat hepatocytes

• Reference: Accurate Evaluation of Hepatocyte Metabolisms on a Noble Oxygen-Permeable Material With Low Sorption Characteristics. *Front. Toxicol.*, 4: 810478, (2022).



Conditions

[Cell] Primary rat hepatocytes
[Seeding density] 1.0×10^5 cells / cm²
[Plate type] InnoCell™ plate FP series (flat bottom)
Collagen-coated (C type)
[Incubator oxygen concentration]
PS-plate : 20% InnoCell™ : 10%

InnoCell™ plate enables primary rat hepatocytes to maintain a high albumin production capacity for an extended period of time.



Low drug adsorption 1

Drug adsorption to the culture substrate

• Data provided by Dr. Arakawa, Kanazawa University

Drug	log P	clinical C _{max} (μM)	Residual rate after 24 hours (%Theoretical value)			
			Drug concentration 100nM			
			PS-plate	FEP-plate	PDMS-plate	InnoCell™ plate
Sunitinib	3.24	0.18	95.8±1.9	64.9±1.8	29.0±2.0	97.0±3.5
Aripiprazole	5.21	0.067	64.2±0.4	54.7±1.2	26.3±0.9	69.9±2.2
Alectinib	5.59	1.4	72.9±1.8	53.7±2.8	45.1±0.8	70.3±2.9
Sorafenib	4.12	17	73.0±1.7	56.4±2.5	59.2±0.4	68.0±3.4
Gefitinib	4.02	0.86	82.9±3.4	69.8±4.3	39.6±2.3	94.0±4.8
Pazopanib	3.59	132	86.7±2.1	59.5±1.8	82.1±2.1	87.8±0.6
Ciprofloxacin	0.28	6.73	62.2±5.4	67.7±12.1	59.6±6.7	69.4±13.0

Conditions

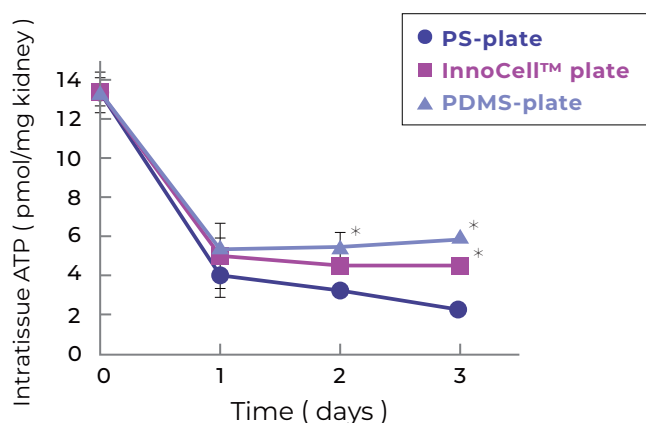
[Plate type] InnoCell™ plate FP series (flat bottom)
 Non-treated (N type)
 [Measurement]
 Liquid chromatograph-mass spectrometer (LC-MS / MS)

Drug adsorption to InnoCell™ plate is low. It can be utilized in toxicity studies, as well as drug efficacy / pharmacology studies during the drug discovery phase.

Viability and drug toxicity evaluation in rat kidney slices

• Reference: Evaluation of Drug-Induced Kidney Injury by Primary Culture of Rat Kidney Tissue Slices Using Oxygen-Permeable Polyolefin Plate with Low Drug Adsorption. *Biol. Pharm. Bull.*, 49: 122-129, (2026).

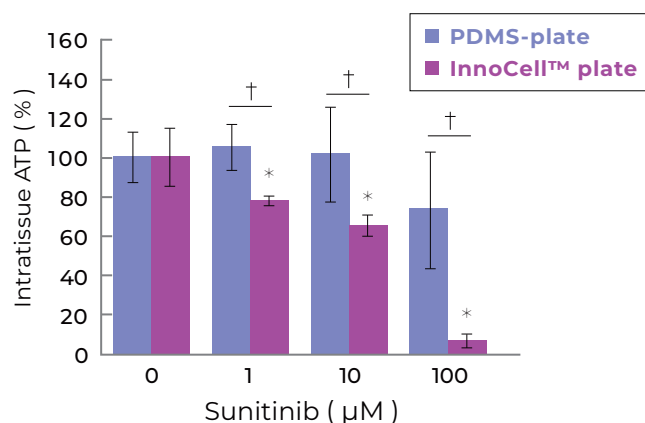
ATP content



Conditions

[Slice] Primary rat kidney tissue
 [Plate type] InnoCell™ plate FP series (flat bottom)
 Non-treated (N type)

Effects of sunitinib on viability (Exposure Day 2)



InnoCell™ plate enables detection of concentration-dependent sunitinib toxicity, supporting drug-induced kidney injury evaluation. InnoCell™ plate has lower drug adsorption than PDMS-plate, which may allow more accurate compound assessment.

[Abbreviation] · PS: Polystyrene · FEP: Fluorinated Ethylene Propylene copolymer · PDMS: Poly (dimethylsiloxane) · COC: Cyclic Olefin Copolymer



Low drug adsorption 2

Drug adsorption to the culture substrate

• Reference : Accurate Evaluation of Hepatocyte Metabolisms on a Noble Oxygen-Permeable Material With Low Sorption Characteristics. *Front. Toxicol.*, 4: 810478, (2022).

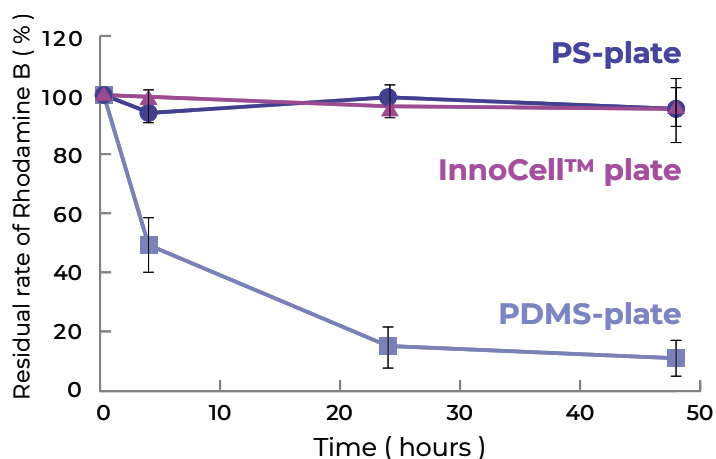
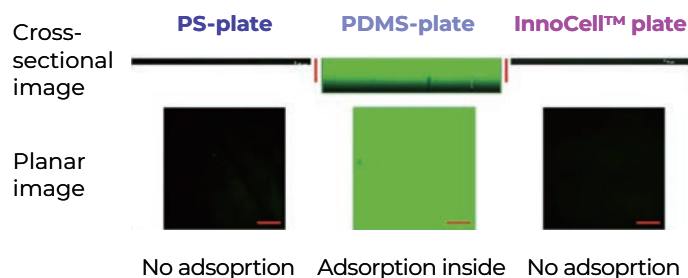


Image after 48 hours (Confocal microscope, 200μm from the bottom)

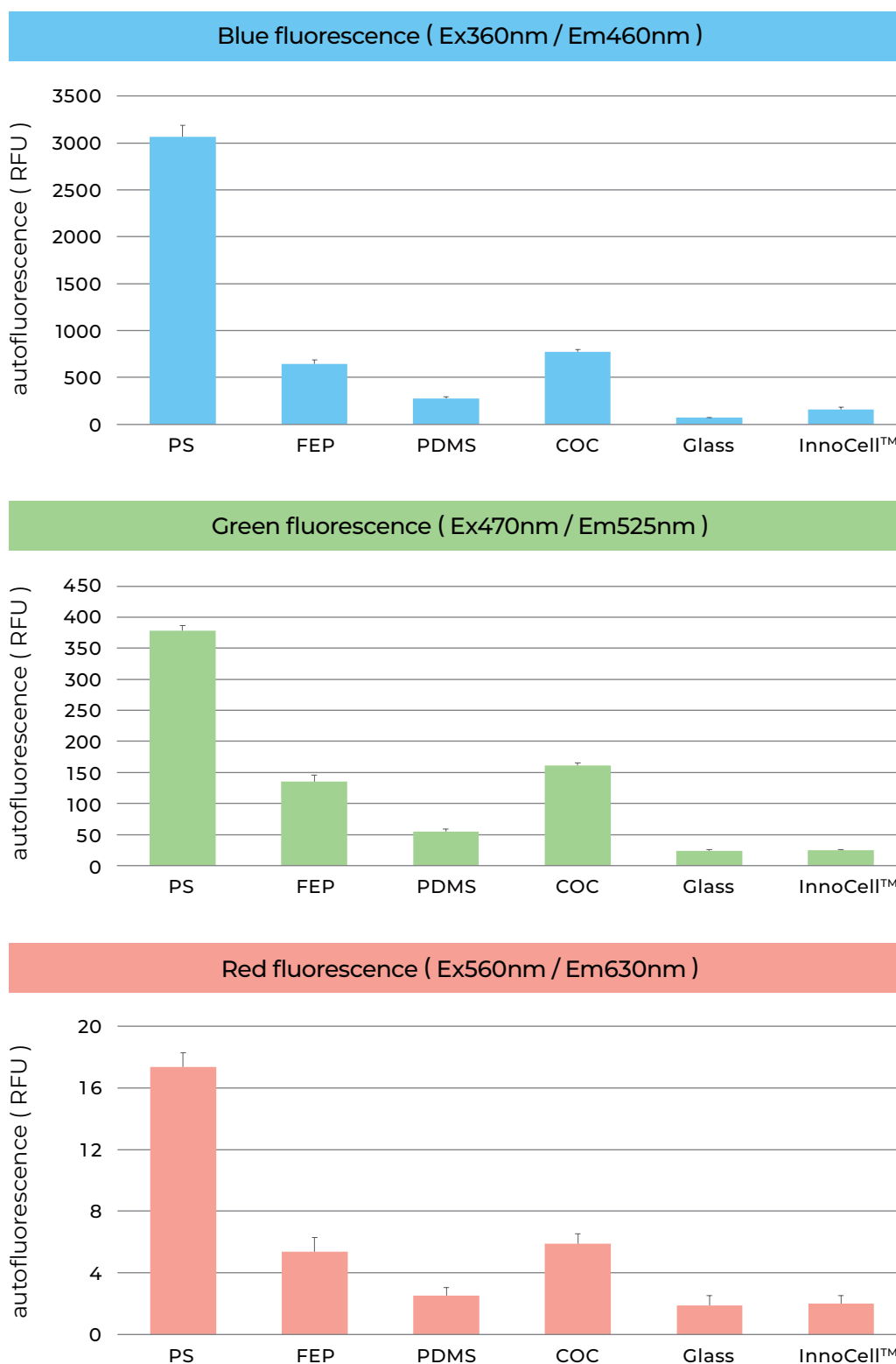
Rhodamine B



InnoCell™ plate is designed for and verified to have low drug adsorption into the culture substrate.



Low Autofluorescence



Conditions

[Plate type] InnoCell™ plate FP series (flat bottom)
 Non-treated (N type)
 [Measurement] Measured by Infinite® 200PRO M Plex

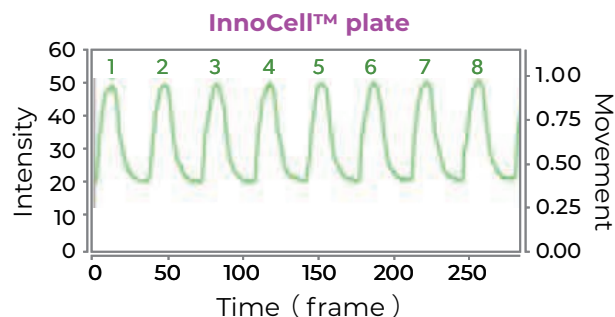
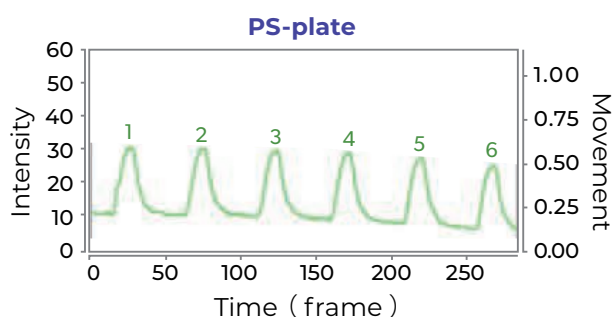
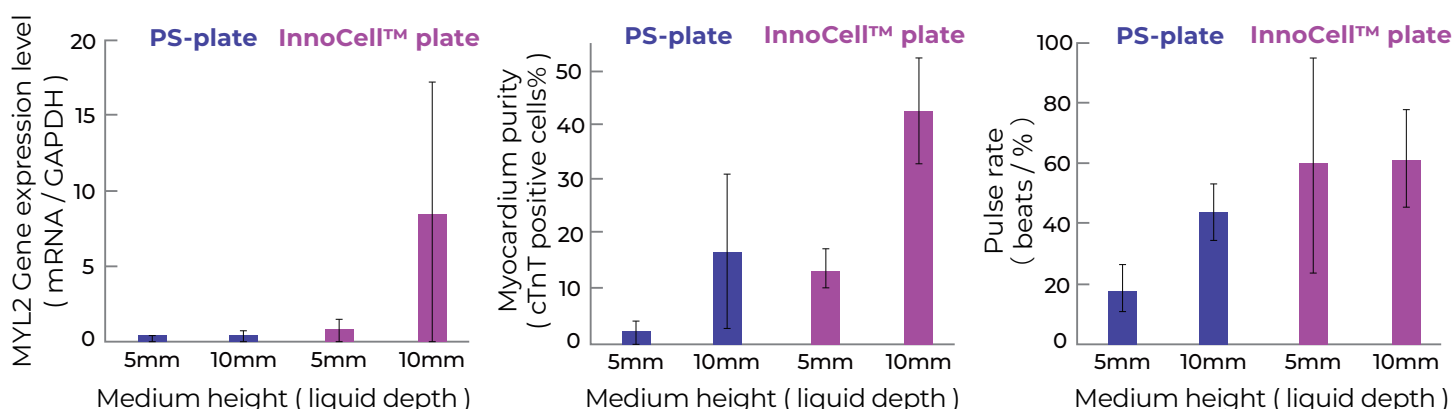
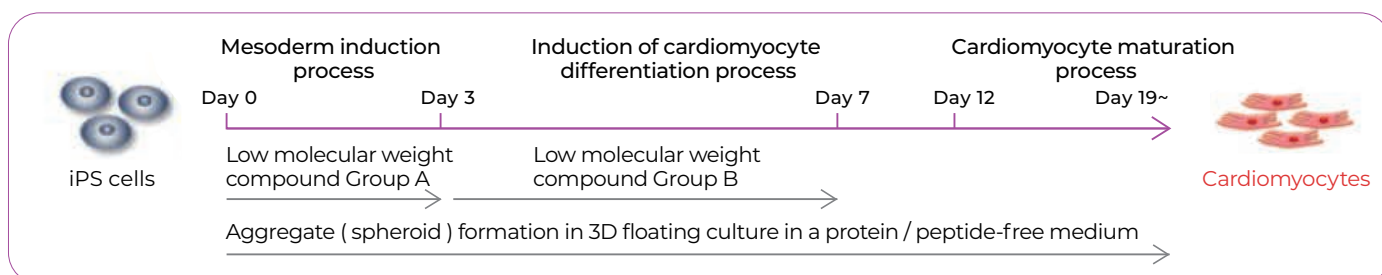
InnoCell™ plate has low autofluorescence at various wavelengths and even shows the values close to those of glass plates, which are known as an excellent material for fluorescence observation.

[Abbreviation] • PS : Polystyrene • FEP : Fluorinated Ethylene Propylene copolymer • PDMS : Poly (dimethylsiloxane) • COC : Cyclic Olefin Copolymer

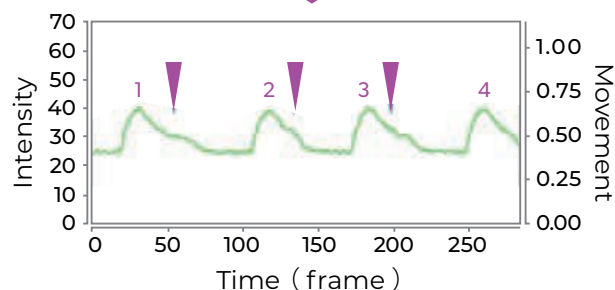
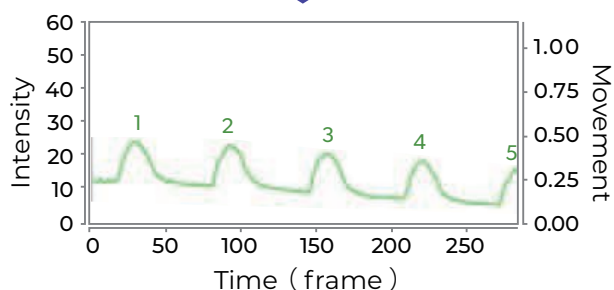
Stem Cell Research

Examples of Induction of cardiomyocytes differentiation from iPS cells and myocardial pharmacological response

• Data provided by Myoridge Co. Ltd.



1μM Bepridil



Conditions

[Plate Type] InnoCell™ plate FP series (flat bottom)
Treated (P type)

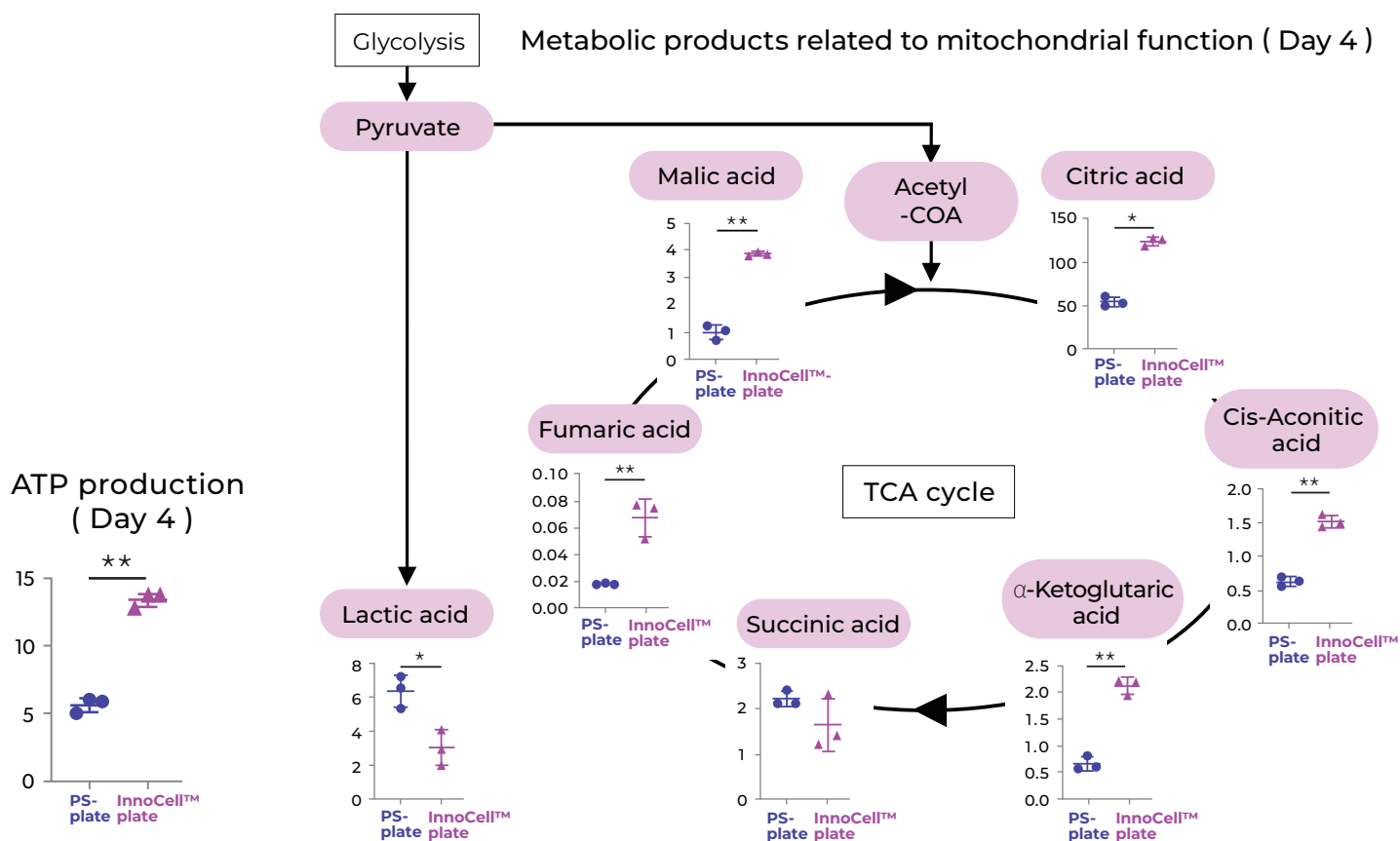
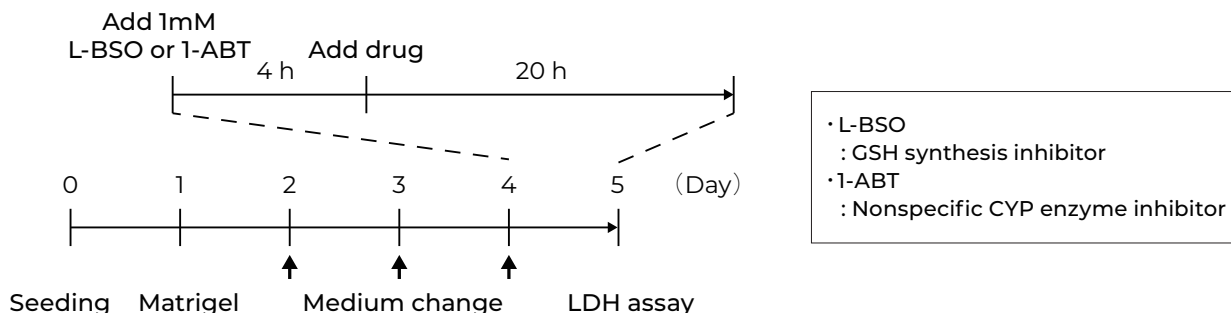
InnoCell™ plate yields highly matured cardiomyocytes. Using iPS-derived cardiomyocyte culture, Bepridil-induced QT prolongation was observed in InnoCell™.

[Abbreviation] • PS: Polystyrene • FEP: Fluorinated Ethylene Propylene copolymer • PDMS: Poly (dimethylsiloxane) • COC: Cyclic Olefin Copolymer

Drug Discovery Research 1

Example assay using primary rat hepatocytes (1/2)

• Reference : New in vitro screening system to detect drug-induced liver injury using a culture plate with low drug sorption and high oxygen permeability. *Drug Metabolism and Pharmacokinetics*, 52: 100511, (2023).

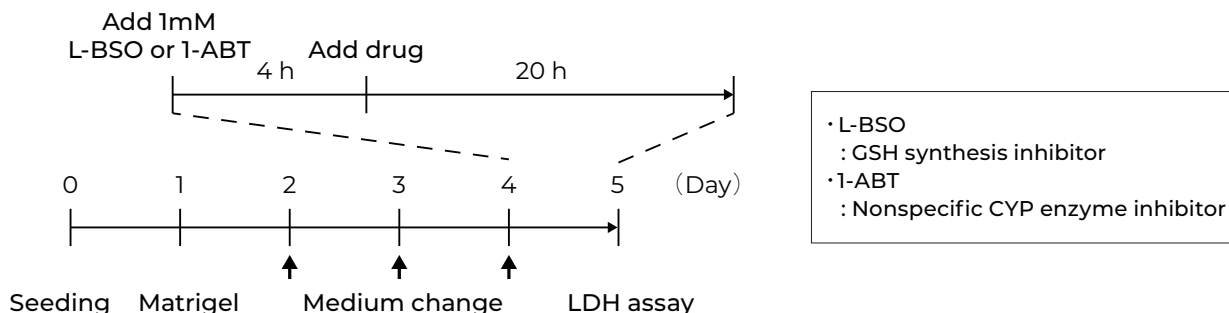


InnoCell™ plate has been shown to shift energy production of rat hepatocytes from the glycolytic system to the TCA cycle.

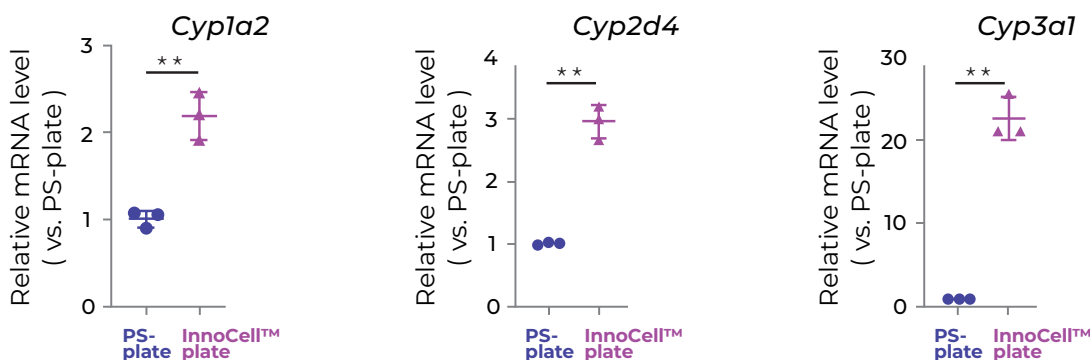
Drug Discovery Research 2

Example assay using primary rat hepatocytes (2/2)

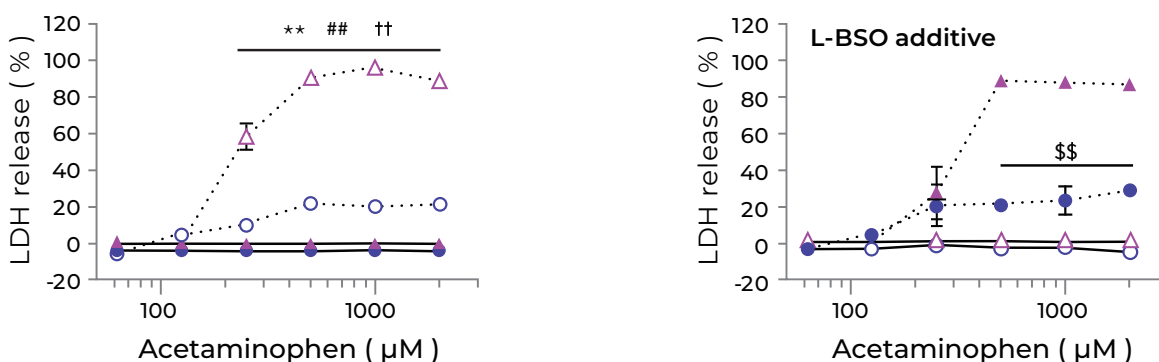
• Reference : New in vitro screening system to detect drug-induced liver injury using a culture plate with low drug sorption and high oxygen permeability. *Drug Metabolism and Pharmacokinetics*, 52: 100511, (2023).



CYP gene expression (Day 4)



Hepatocellular damage (Acetaminophen)



L-BSO not added : ● PS-plate | ▲ InnoCell™ plate
L-BSO Added : ○ PS-plate | △ InnoCell™ plate

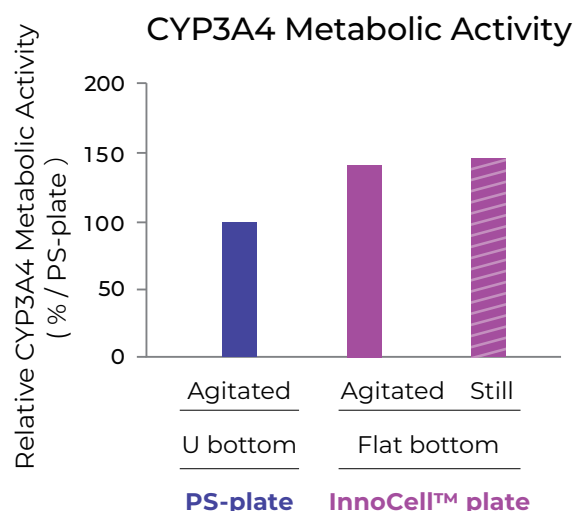
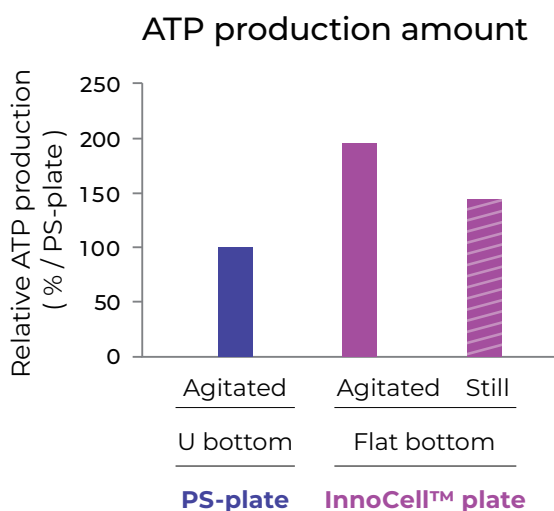
1-ABT not added : ● PS-plate | ▲ InnoCell™ plate
1-ABT Added : ○ PS-plate | △ InnoCell™ plate

Using InnoCell™ plate, hepatocellular cytotoxicity due to acetaminophen was increased in the presence of L-BSO and attenuated by adding 1-ABT. Hepatocellular cytotoxicity caused by reactive metabolites may be detected with high sensitivity.

Drug Discovery Research 3

Example assay using human 3D liver buds

• Data provided by Cyfuse Biomedical K.K.



Conditions

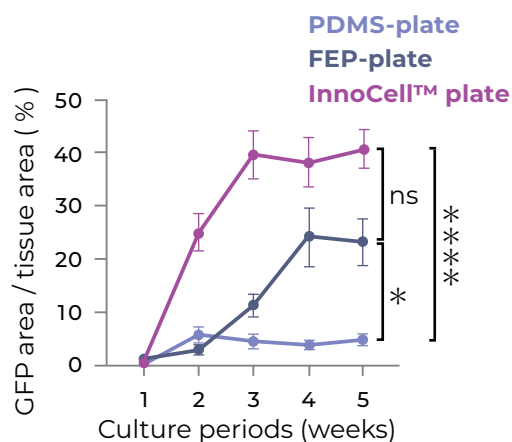
[Cell] Same company Human 3D liver buds
 [Culture period] 6 days
 [Plate type] InnoCell™ plate FP series (flat bottom)
 Non-treated (N type)

InnoCell™ plate maintains higher ATP production and CYP3A4 metabolism in human 3D liver buds.

Additional Data 1

Culture of mouse testis tissue

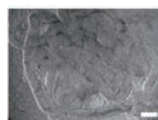
• Reference: Development of the membrane ceiling method for in vitro spermatogenesis. *Scientific Reports*, 15: 625, (2025).



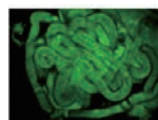
InnoCell™ plate
Image (5 weeks)

Scale bar : 100μm (White)

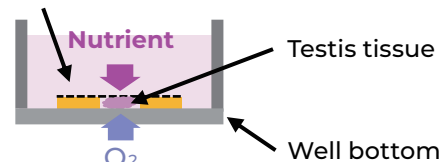
Bright field



GFP



Membrane ceiling (MC) chip



Conditions

[Tissue] GFP-tagged Acrosomes and RFP-tagged nuclei mice testis tissue
[Culture period] 5 weeks
[Plate type] InnoCell™ plate FP series (flat bottom)
Non-treated (N type)

InnoCell™ plate supports testis tissue culture and improves Acr-GFP expression compared with conventional oxygen-permeable plates.

Culture of PXB-mouse® liver slices

• Data provided by PhoenixBio Co., Ltd.

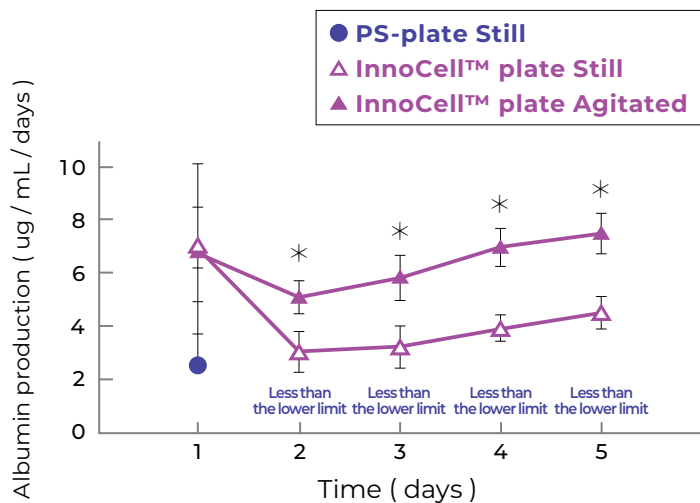
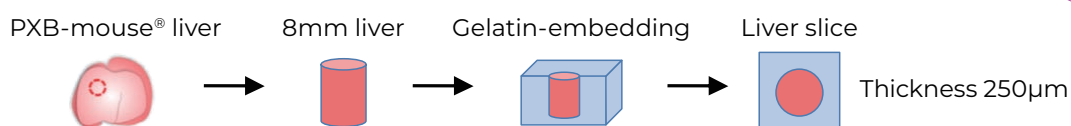
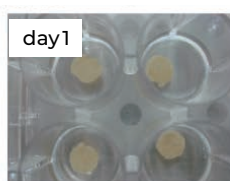


Image of liver slice in the plate



Conditions

[Slice] PXB-mouse® liver
[Plate type] InnoCell™ plate FP series (flat bottom)
Non-treated (N type)

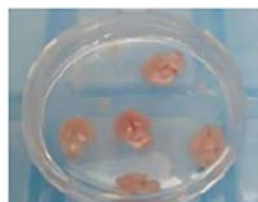
InnoCell™ plate even enables liver slices to maintain a high albumin production capacity for an extended period of time.

[Abbreviation] · PS : Polystyrene · FEP : Fluorinated Ethylene Propylene copolymer · PDMS : Poly (dimethylsiloxane) · COC : Cyclic Olefin Copolymer

Additional Data 2

FDSS / μ CELL Kinetic Plate Imager Analysis

• Data provided by HAMAMATSU PHOTONICS K.K.

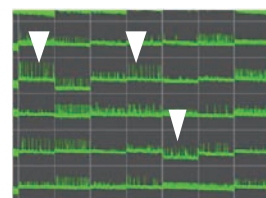


Rat cerebral cortex



Ca²⁺ dye

InnoCell™ plate



Ca²⁺ oscillation

Conditions

[Equipment] FDSS / μ CELL Kinetic Plate Imager
 [Tissue] Rat cerebral cortex
 [Culture period] 15 days
 [Plate type] InnoCell™ plate FP series (flat bottom)
 Non-treated (N type)

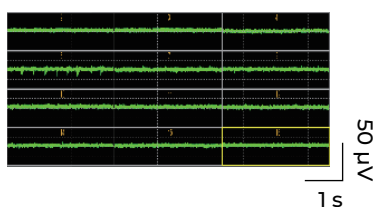
InnoCell™ plate enables good Ca²⁺ oscillations in tissue culture of rat cerebral cortex.

Enhanced spontaneous neuronal activity in brain organoids

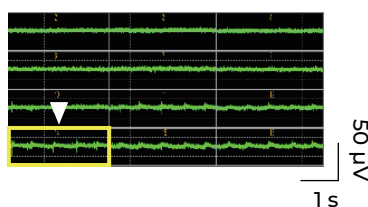
• Data provided by VitroVo, Inc.

PS-plate

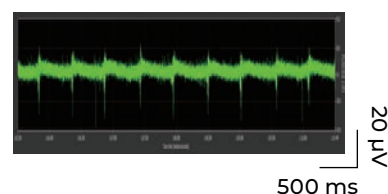
Cerebral organoid



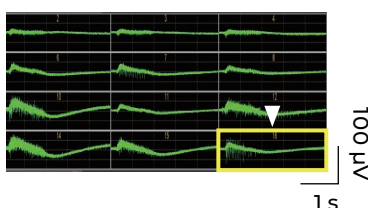
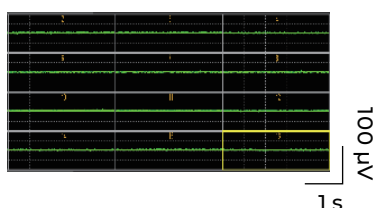
InnoCell™ plate



▽ Zoomed-in view



Midbrain organoid



Conditions

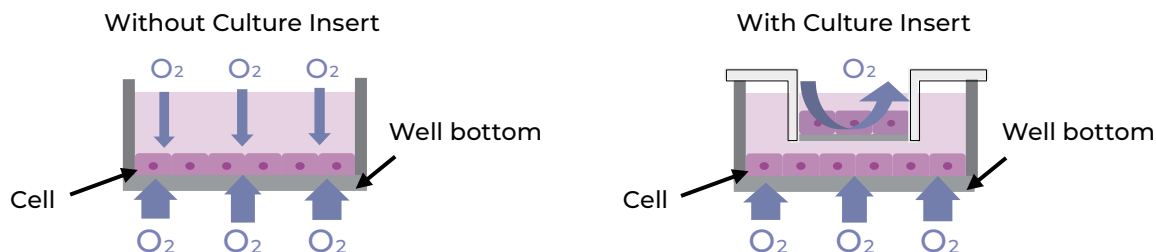
[Recording system] Presto (Alpha MED Scientific Inc.)
 [Culture period] 287 days
 [Plate Type] InnoCell™ plate FP series (flat bottom)
 Non-treated (N type)

Brain organoids on InnoCell™ plate shows high-amplitude and spontaneous electrophysiological activity.

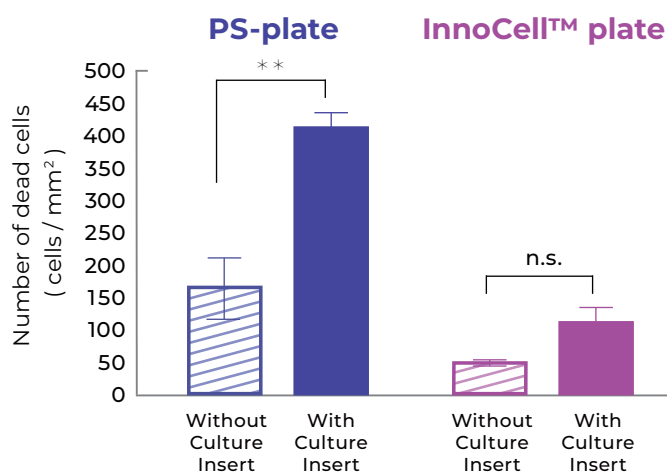
Additional Data 3

InnoCell™ plate Co-Culture System

• Reference: Enhanced Functionality of Human Hepatocytes using the Oxygen Permeable Culture Plate for Optimized Oxygen Supply in Co-culture Systems with Culture Inserts. AATEX, 29(2): 64-74, (2024).



Cell viability

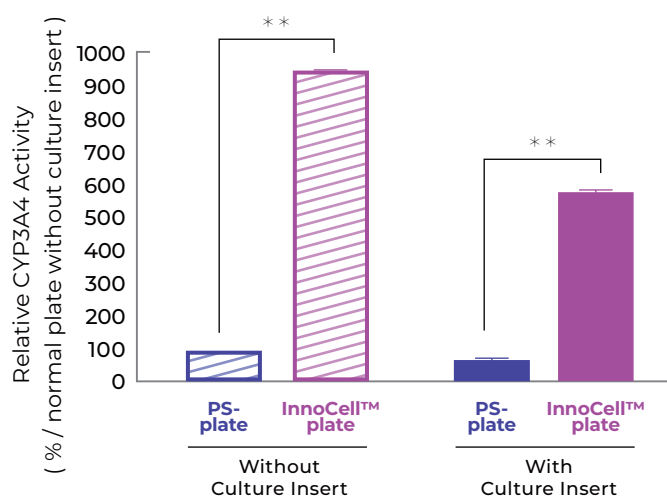


Conditions

[Cell] HepG2 cells
 [Culture period] 3 days
 [Plate type] InnoCell™ plate FP series (flat bottom)
 Collagen-coated (C type)

InnoCell™ plate stably supplies oxygen to cells at the bottom of wells even when using culture insert.

CYP3A4 metabolic activity



Conditions

[Cell] Hepa SH™ cells
 [Culture period] 7 days
 [Plate type] InnoCell™ plate FP series (flat bottom)
 Collagen-coated (C type)

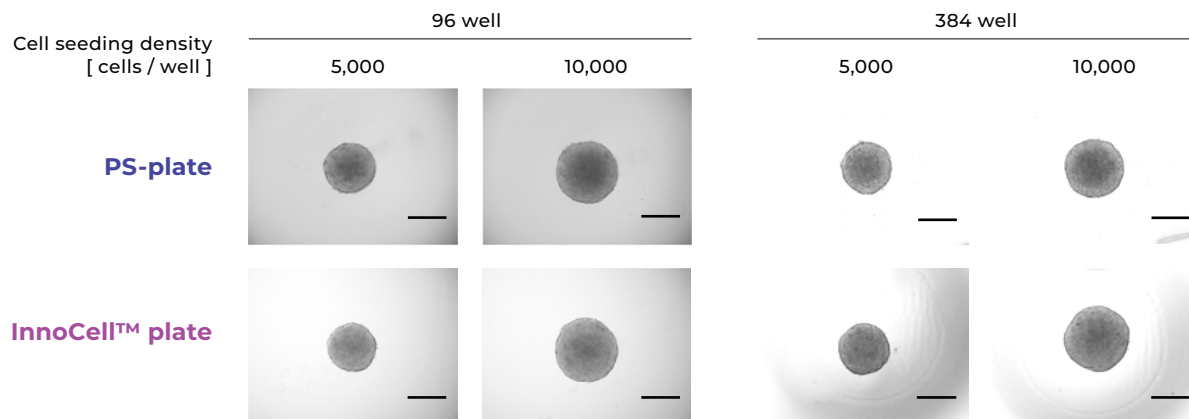
InnoCell™ plate maintains higher drug metabolism enzyme activity even if the culture insert is installed.

Additional Data 4

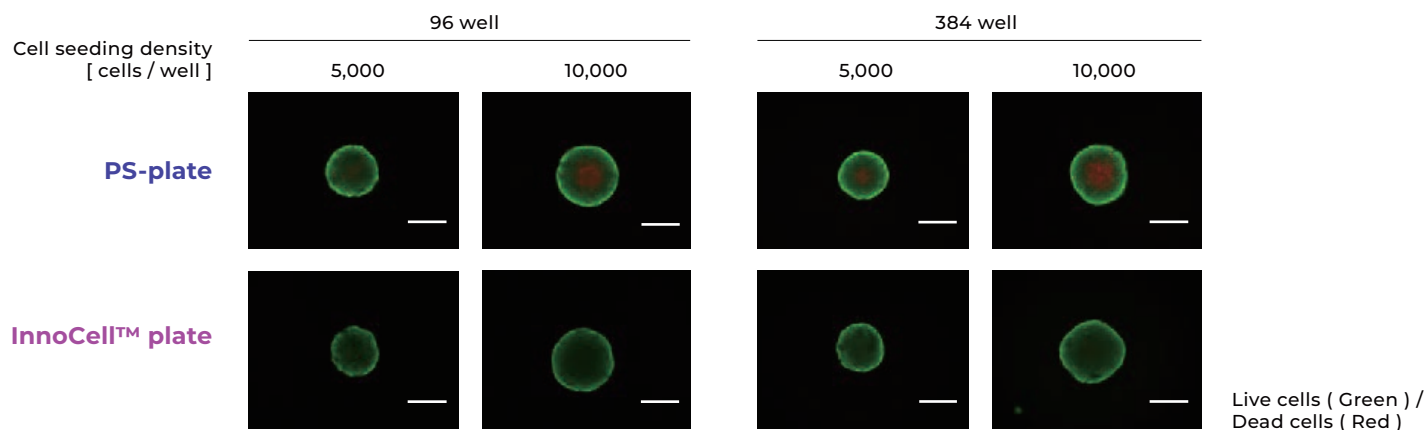
Spheroid formation and function using InnoCell™ plate 3D series

• Data obtained by Mitsui Chemicals

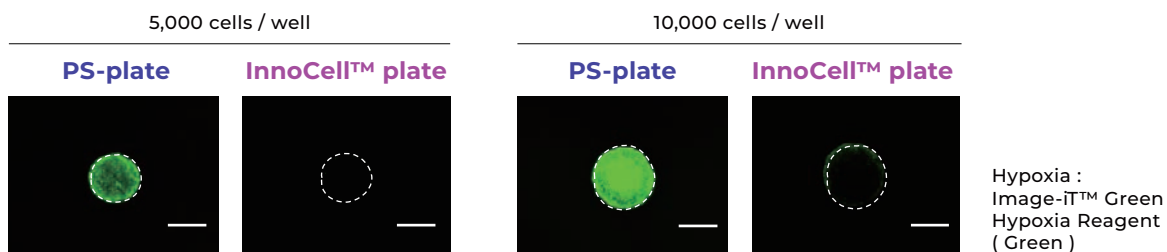
Spheroid formation (Bright Field)



Spheroid viability



Spheroid hypoxic condition (96 well)



Scale bar : 400μm

Conditions

[Cell] TFK-1
[Culture period] 3 days
[Plate type] InnoCell™ plate 3D series

InnoCell™ plate is applicable to for spheroid formation even with a higher cell seeding density. Moreover, InnoCell™ plate improves spheroid viability, with suppression of central necrosis and reducing hypoxia in large spheroids.

Additional Data 5

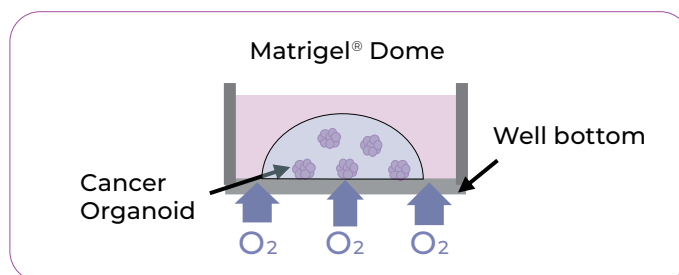
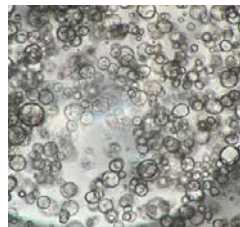
Matrigel® culture for cancer organoids

• Data provided by Dr. Hiratsuka, Osaka International Cancer Institute

PS-plate



InnoCell™ plate



Conditions

[Tissue] Human pancreatic cancer
 [Culture period] 8 days
 [Plate type] InnoCell™ plate FP series (flat bottom)
 Non-treated (N type)

InnoCell™ plate enables rapid and effective proliferation of organoids derived from pancreatic cancer patients.

Oxygen concentration within Matrigel® dome

• Data obtained by Mitsui Chemicals

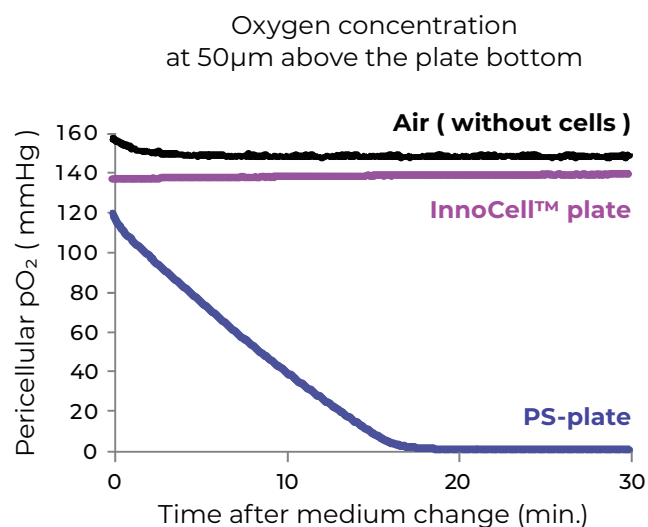
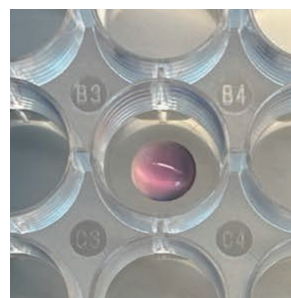


Image of Matrigel® dome in 24 well



Conditions

[Cell] HepG2 cells
 [Seeding density] 3.0×10^5 cells / 80 μL Matrigel®
 [Culture period] 3 days
 [Equipment] Optical oxygen sensor
 [Plate Type] InnoCell™ plate FP series (flat bottom)
 Treated (P type)

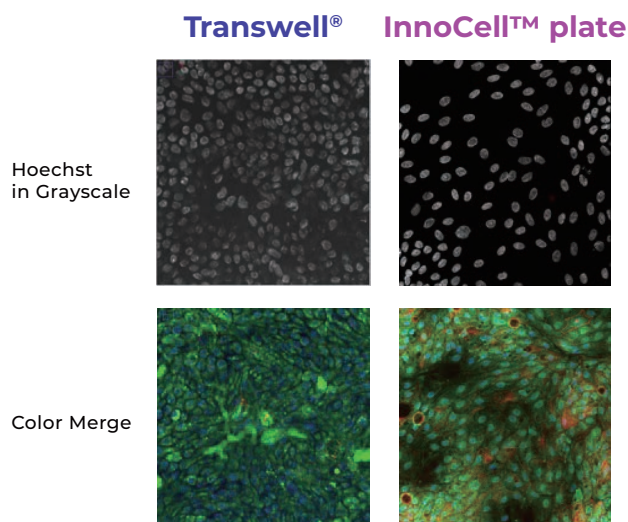
InnoCell™ plate maintains oxygen concentration within Matrigel® domes by efficient oxygen supply. This is expected to support the study of organoids and other Matrigel-based 3D culture systems.

Additional Data 6

High-content Imaging

• Data provided by Dr. Sexton, University of Michigan Medical School

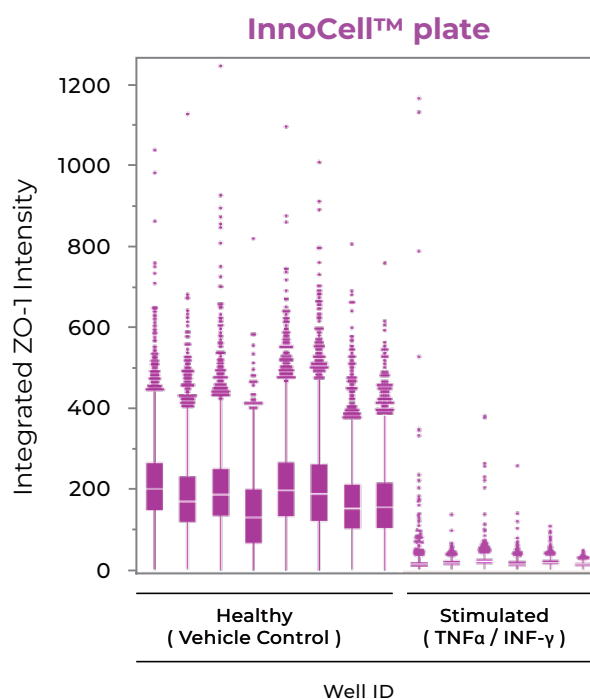
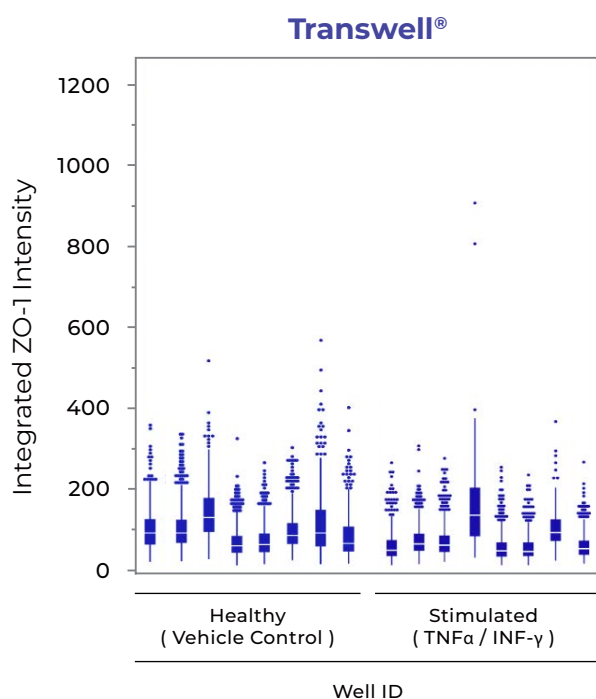
Image quality



Nucleus : Hoechst (Blue)
Tight junction : ZO-1 (Red)
Entire Cell : HCS CellMask™ (Green)

InnoCell™ plate supports robust cell-cell tight junction formation to provide gut barrier model. Low autofluorescence of InnoCell™ plate enables clear delineation of nuclei for high-content imaging.

Gut barrier inflammation response



Conditions

[Equipment] CellVoyager™ CV8000
[Cells] Primary human colonoids
[Culture period] 6 days
[Plate type] InnoCell™ plate FP series (flat bottom)
treated (P type)

InnoCell™ plates enable in vitro gut barrier formation and high-content imaging of clear response for modeling of inflammatory cytokine-induced gut barrier disruption.

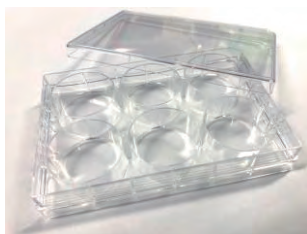
[Abbreviation] · PS : Polystyrene · FEP : Fluorinated Ethylene Propylene copolymer · PDMS : Poly (dimethylsiloxane) · COC : Cyclic Olefin Copolymer

Product Lineup

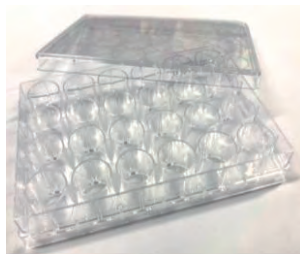
* All products feature a transparent bottom and PFAS-Free.

InnoCell™ plate FP series (flat bottom)

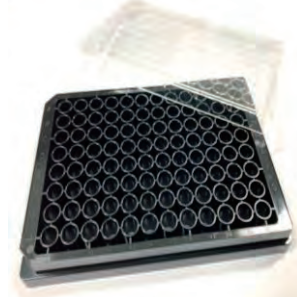
6well



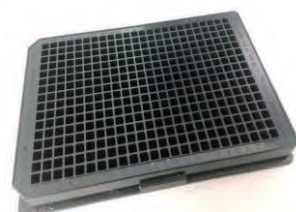
24well



96well



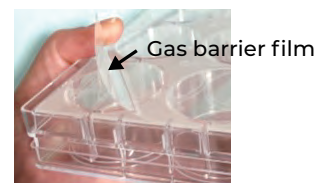
384well



Culture surface	Description
Non-treated (N type)	Suitable for culturing non-adhesive cells and spheroids / organoids, etc.
Treated (P type)	The surface of the base material has undergone hydrophilic treatment. Suitable for coating various scaffolding materials.
Collagen-coated (C type)	The surface of the base material has undergone hydrophilic treatment. It is coated with Type I pig tendon-derived collagen.

InnoCell™ plate FW series (FP series + gas barrier film)

The InnoCell™ FW series is treated with a release film with low oxygen permeability. The gas barrier film can be peeled off and used as InnoCell™ FP series.

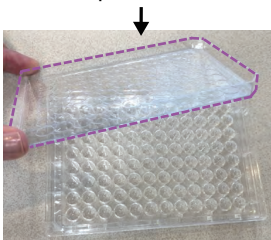


InnoCell™ plate 3D series

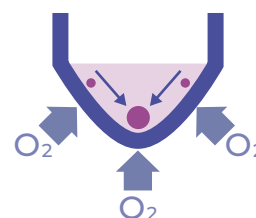
Spheroids and organoids can be cultured while retaining the oxygen permeability of bottom.

*Remove the bottom protective cover before use.

Bottom protective cover



96 well



Inquiry
regarding Products
and Techniques

MITSUI CHEMICALS, INC.

Cell Culture Solution Department, New Business Incubation Center

2-2-1 Yaesu, Chuo-ku, Tokyo 104-0028, Japan, Tokyo Midtown Yaesu, Yaesu Central Tower

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List of Products

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InnoCell™ plate FP series (flat bottom)

Product No.	Product description	Quantity	Set	Remarks
FP0006N	non-treated 6 well	5 plates	1	Transparent flame
FP0006P	treated 6 well	5 plates	1	Transparent flame
FP0006C	collagen-coated 6 well	5 plates	1	Transparent flame
FP0024N	non-treated 24 well	5 plates	1	Transparent flame
FP0024P	treated 24 well	5 plates	1	Transparent flame
FP0024C	collagen-coated 24 well	5 plates	1	Transparent flame
FP0096N	non-treated 96 well	5 plates	1	Black flame
FP0096P	treated 96 well	5 plates	1	Black flame
FP0096C	collagen-coated 96 well	5 plates	1	Black flame
FP0384N	non-treated 384 well	5 plates	1	Black flame
FP0384P	treated 384 well	5 plates	1	Black flame, Under Development
FP0384C	collagen-coated 384 well	5 plates	1	Black flame

InnoCell™ plate FW series (FP series + gas barrier film) (Under development)

Please send an inquiry for the products of interest.

InnoCell™ plate 3D series

Product No.	Product description	Quantity	Set	Remarks
HD0096HT	ultra-low attachment 96 well (transparent)	5 plates	1	Transparent flame, Under Development

Important Points for all products

- Unopened products should be stored in a dry place at a temperature between 1 °C and 30 °C (33.8 °F to 86.0 °F).
- This product is intended to be used as a cell culture plate for research purposes only. The product itself, as well as any cells cultured using this product, must not be used for application to humans or animals, nor for clinical diagnostic purposes.
- The culture surface is made of a thin film. Handle with care to avoid damage from pipette tips or sharp objects.
- Although thorough attention has been paid to ensure the quality of the product, please check for scratches and tears before use.
- Please do not conduct any product analysis for any purpose other than research purpose.
- The values and images used in application is an example. Mitsui Chemicals is unable to guarantee the values and performance under any conditions.

Important Points for the products under development

- Regard products as remarked under development, Mitsui Chemicals is unable to offer assurances regarding quality, intellectual property protection, or guarantees against potential third party patent infringement claims.
- Please note that prior notification to Mitsui Chemicals is necessary before filing any patent applications pertaining to this product.

Publication List

No.	Type	Title	Source and URL
01	Liver	Accurate Evaluation of Hepatocyte Metabolisms on a Noble Oxygen-Permeable Material With Low Sorption Characteristics	<i>Front. Toxicol.</i> , 4: 810478, (2022). https://www.frontiersin.org/journals/toxicology/articles/10.3389/ftox.2022.810478/full
02	Liver	Cryopreserved human hepatocytes culture optimization on polymethylpentene oxygen permeable membranes for drug screening purposes	<i>Fundam. Toxicol. Sci.</i> , 9(4): 135-144, (2022). https://www.jstage.jst.go.jp/article/fts/9/4/9_135/_article
03	Liver	New in vitro screening system to detect drug-induced liver injury using a culture plate with low drug sorption and high oxygen permeability	<i>Drug Metabolism and Pharmacokinetics</i> , 52: 100511, (2023). https://www.sciencedirect.com/science/article/pii/S134743672300023X?via%3Dihub
04	Liver	Optimization of physical microenvironment to maintain the quiescence of human induced pluripotent stem cell-derived hepatic stellate cells	<i>Biotechnol Bioeng.</i> , 120: 2345-2356, (2023). https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/10.1002/bit.28485
05	Liver, Intestine	Cut-Liver microphysiological systems revealed potential crosstalk mechanism modulating drug metabolism	<i>PNAS Nexus</i> , 3(2): 070, (2024). https://academic.oup.com/pnasnexus/article/3/2/pgae070/7604466?login=false
06	Liver	Microphysiological systems for realizing microenvironment that mimics human physiology-functional material and its standardization applied to microfluidics	<i>Emergent Materials</i> , 8: 1139-1151, (2026). https://link.springer.com/article/10.1007/s42247-024-00822-x
07	Liver	Examination of common culture medium for human hepatocytes and engineered heart tissue: Towards an evaluation of cardiotoxicity associated with hepatic drug metabolism in vitro	<i>PLoS ONE</i> , 19(12): e0315997, (2024). https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0315997
08	Liver	Enhanced Functionality of Human Hepatocytes using the Oxygen Permeable Culture Plate for Optimized Oxygen Supply in Co-culture Systems with Culture Inserts	<i>AATEX</i> , 29(2): 64-74, (2024). https://www.jstage.jst.go.jp/article/aatex/29/2/29_aatex29_64/_article-char/ja
09	Heart	Significance of Oxygen Supply for Toxicity Evaluation using iPS Cell-derived Functional Cells	<i>AATEX</i> , 30(2): 62-69, (2025). https://www.jstage.jst.go.jp/article/aatex/30/2/30_aatex-30_62/_article-char/en
10	Testis	Development of the membrane ceiling method for in vitro spermatogenesis	<i>Scientific Reports</i> , 15: 625, (2026). https://www.nature.com/articles/s41598-024-84965-1
11	Zebrafish	Enhanced Drug Screening Efficacy in Zebrafish Using a Highly Oxygen-Permeable Culture Plate	<i>Appl. Sci.</i> , 15(15): 8156, (2026). https://www.mdpi.com/2076-3417/15/15/8156
12	Liver	Effects of Oxygen-Permeable Plates on Cytochrome P450 and Flavin-Containing Monooxygenase in HepaRG Spheroid Cultures	<i>Biol. Pharm. Bull.</i> , 49(1): 90-98, (2026). https://www.jstage.jst.go.jp/article/bpb/49/1/49_b25-00489/_article
13	Kidney	Evaluation of Drug-Induced Kidney Injury by Primary Culture of Rat Kidney Tissue Slices Using Oxygen-Permeable Polyolefin Plate with Low Drug Adsorption	<i>Biol. Pharm. Bull.</i> , 49(1): 122-129, (2026). https://www.jstage.jst.go.jp/article/bpb/49/1/49_b25-00572/_article
14	Liver	Continuous bile excretion from polarized hepatocytes on a microchannel-patterned device	<i>Cell Rep. Phys. Sci.</i> , 7(4): 103229, (2026). https://www.cell.com/cell-reports-physical-science/fulltext/S2666-3864(26)00135-9
15	Kidney	Shaking culture improves physiological maintenance of primary rat kidney tissue slices	<i>Front. Toxicol.</i> , 8: 1838970, (2026). https://www.frontiersin.org/journals/toxicology/articles/10.3389/ftox.2026.1838970/full
16	Liver, Heart	An oxygen-permeable, stirrer-pump-integrated liver-heart microphysiological system enables time-resolved analysis in PK-PD relationships of metabolism-dependent cardiotoxicity	<i>NAM Journal</i> , 2: 100107, (2026). https://www.sciencedirect.com/science/article/pii/S3050620426000321?via%3Dihub
17	Liver	High-oxygen gas-permeable culture improves viability and supports quantitative antifibrotic pharmacology in precision-cut liver slices	<i>Physiol Gastrointest Liver Physiol</i> , 10: 1152, (2026). https://journals.physiology.org/doi/full/10.1152/ajpgi.00144.2026



Inquiry regarding Products and Techniques

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