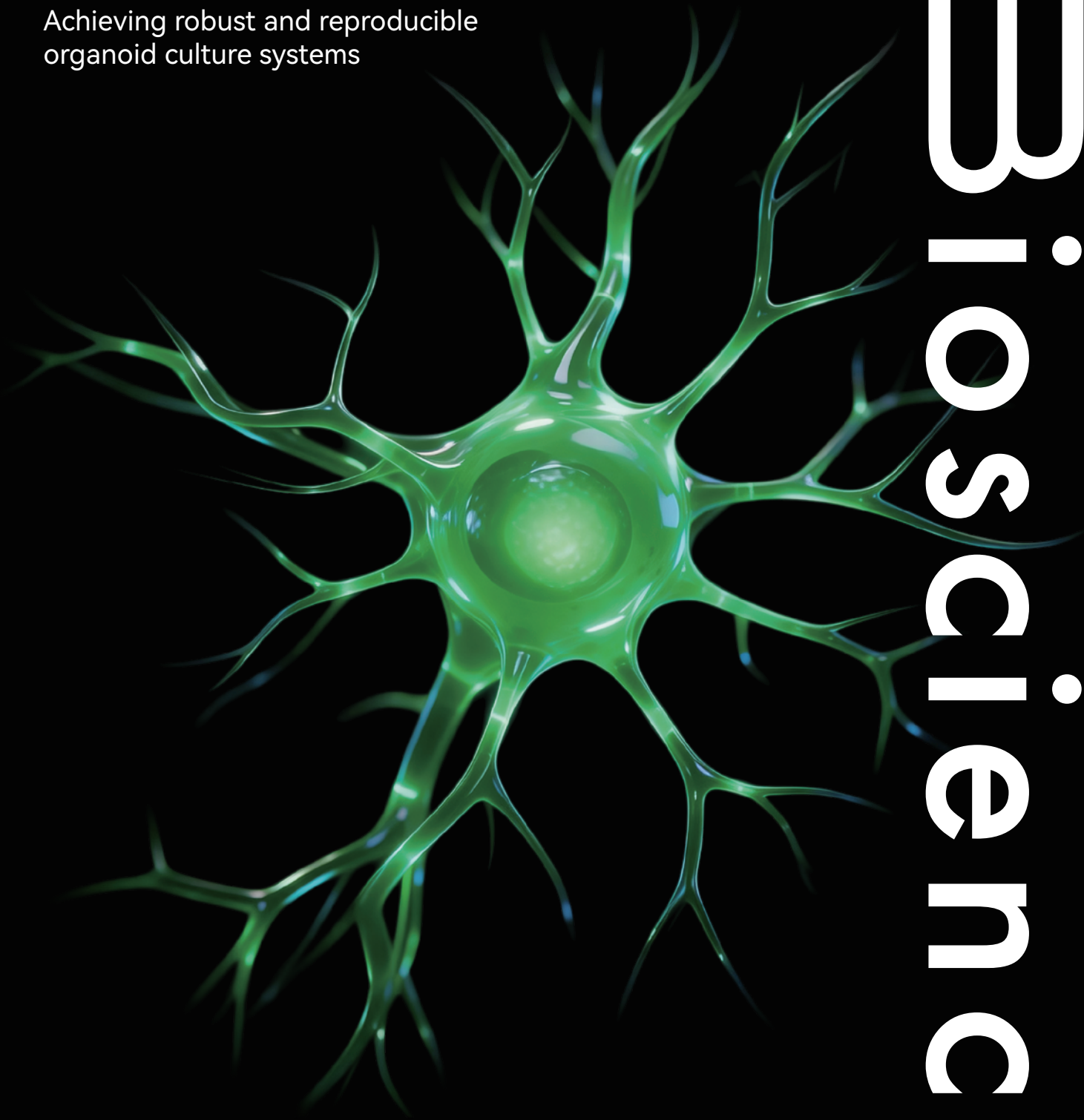


# ORGANOID SOLUTIONS

Achieving robust and reproducible  
organoid culture systems

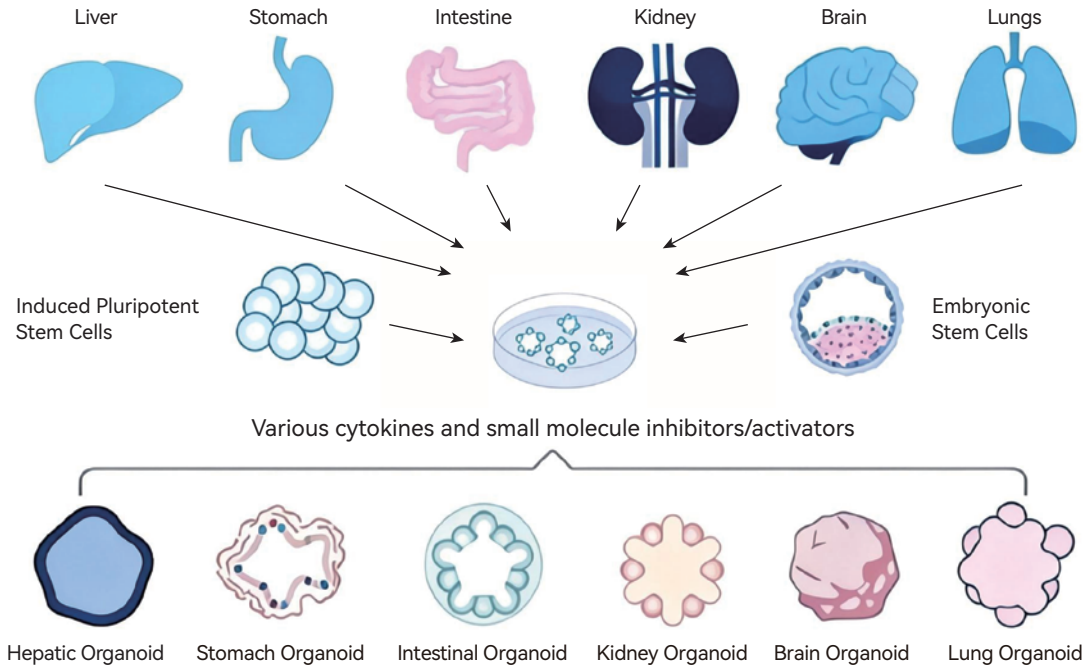
Bioscience

Shanghai  
Bioscience



# I. DEFINITION OF ORGANOIDS

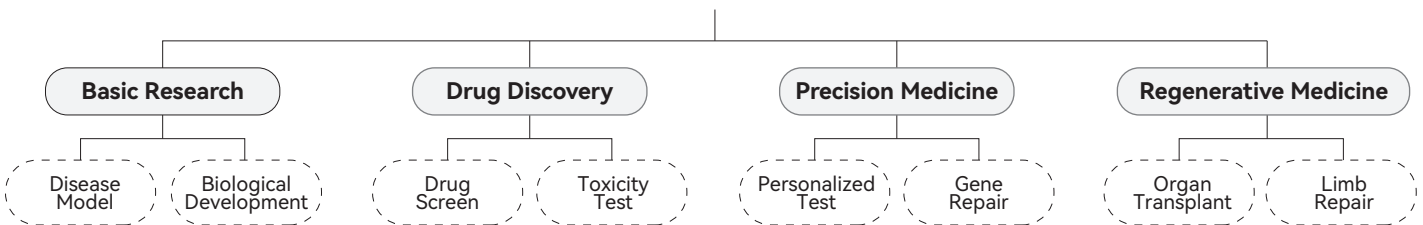
Organoids are a series of organ models formed through the self-organisation of stem cells in 3D vitro environment. Capable of highly simulating the structure and function of real organs, they have become vital tools for disease research and drug development. Currently, multiple organoid models have been successfully established and applied in areas such as disease mechanism analysis. In 2025, the FDA announced that drugs such as monoclonal antibodies could progressively be exempted from animal testing, explicitly recognising organoids as an alternative pathway.



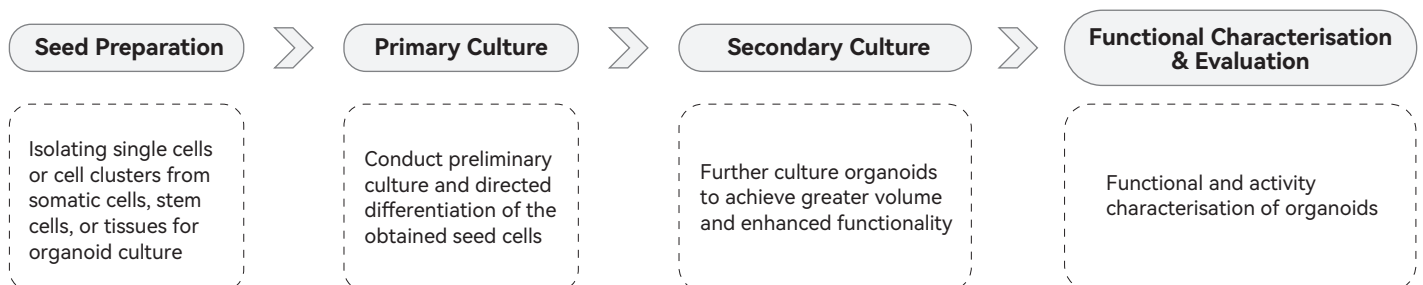
# II. APPLICATIONS OF ORGANOIDS

The development of organoids holds immense potential across fundamental research, drug discovery, precision medicine, and regenerative medicine. Integrating organoids with gene editing, single-cell sequencing, and cellular and gene therapies will significantly advance biomedical progress.

## APPLICATIONS OF ORGANOIDS



# III. ORGANOID WORKFLOW



## IV. FEATURED PRODUCT LIST

PROCESS	SKUS	SPECIFICATION	DESCRIPTION
Seed Preparation	M9058M	10mL	Organoid-Specific Matrix Gel
	JFKR-F-PSG	50mL/100mL	Penicillin-Streptomycin-Gentamicin Solution (100X)
	JFKR-JLY-10	10mL	Tissue Dissociation Solution
	K601005	100mL	Primary Tissue Storage Solution(Serum-free)
	E238010	100mL/500mL	Red Blood Cell Lysis Solution
	BS6230100	10 per pack, 40 per box	100mm Petri dish, ultra-low adsorption
	BS6201060	10 per pack, 50 packs per carton	60mm Petri dish, untreated, with anti-slip groove
	BS1917010	50 per bag, 4 bags per carton	10mL pipettes, sterile, individually packaged, 1/10 graduation, orange colour ring
	BL2012150	25 tubes/rack, 2 racks/pack, 10 packs/carton	15mL transparent centrifuge tubes, flat caps, conical base, RCF 12000xg, sterile, rack-mounted
	BS1053200	96 tubes/box, 10 boxes/set, 5 sets/carton	200µL transparent pipette tips, low-binding, boxed, sterile
Primary Culture	JFKR-RP02	100µg/1mg	Human Wnt-3a Protein
	861-RS1-0100	100µg	Human R-Spondin 1 Recombinant Protein
	F9070L	500mL	Extra-grade foetal bovine serum
	JFKR-F20-500	500mL	Advanced DMEM/F-20 Medium
	C208255	20mg	DAPT
	JFKR-ZHCY	250mL/500mL	Organoid Basal Solution
	S223152-10	10mL	G-27 Supplement
	S223155-10	10mL	N-2 Additive
	BS6600006	1 per pack, 50 packs per carton	6-well plate, untreated
	K2001-MI	100mL/500mL	Mouse Intestine (Serum-Free) Organoid Kit
	JFKR-RMNC -100-KIT	100mL/500mL	Rat Colonic Organoid Culture Medium Kit
	K-2604	100mL/500mL	Human Brain Differentiation (Serum-Free) Organoid Kit
	K2121-SL	100mL/500mL	Small Cell Lung Cancer (Serum-Free) Organoid Kit
	K2179-GC	100mL/500mL	Gastric Carcinoma (Serum-Free) Organoid Kit
	JFKR-TIL-100-Kit	100mL	TIL Cell Isolation and Expansion Kit
	Secondary Culture	JFKR-XHY	100mL/500mL
JFKR-HCY		250mL/500mL	Organoid Basal Solution
K-2603		100mL/500mL	Human Brain Expansion (Serum-Free) Organoid Kit
CC-0001		Unit	Fully Automated Cell Counter (Brightfield)
CC-0003		Unit	Consumables-Free Cell Counter
SI-0100		Unit	Stackable CO <sub>2</sub> Shaker Incubator
Functional Characterisation	A6103	100T/500T	ATP Luminescent Cell Viability Assay Kit
	E238004	10mL/50mL	Organoid Viability Analysis Kit
	C6005S	100T	Cell Counting Kit-8 (CCK-8) Cell Proliferation Assay Kit
Organoid Preservation	E238023-100	100mL	Organoid Cryopreservation Medium(Serum Free)
	BS2602020	50 per pack, 30 packs per carton	2.0mL Internal-Twist Cryopreservation Vials, Round-Bottom, Self-Standing, Sterile, Bagged
	BS7816081-CM	5 per pack, 4 packs per carton	81-well cryopreservation tray, polycarbonate, hinged lid, assorted colours

# V. ORGANOID-RELATED CONSUMABLES



## CELL CULTURE PLATE

### Features

- Uniform base thickness and consistent well dimensions
- Special well rim design
- Non-cytotoxic surface, biologically inert and non-degradable

### Applications

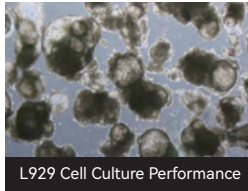
For laboratory applications including cell culture and organoid expansion

### 6-well to 384-well formats

- Untreated, TC-coated, TC-enhanced coating, ultra-low binding
- Four surface options available to meet diverse organoid culture requirements



Organoid culture efficacy



L929 Cell Culture Performance

### Ultra-low binding surface treatment

BIOLEADER® Ultra-low adsorption treatment employs an amphoteric polymer coating technology, forming a highly hydrophilic "water barrier" on the surface. This effectively inhibits the adhesion of cells, proteins, and bacteria (adhesion rate <2% after 20 days), specifically designed for long-term suspension cell culture. Suitable for high-precision experimental requirements such as stem cell expansion, organoid culture, and protein preservation.



## CELL CULTURE FLASKS

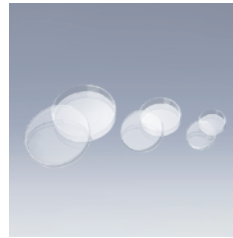
### Features

- High precision, smooth surface
- High efficiency with excellent uniformity
- Vacuum plasma treatment for superior hydrophilicity

### Applications

Primarily used for cell culture, particularly in the cell culture amplification stage of laboratory or industrial production processes.

Available in four volumes: 25 cm<sup>2</sup>, 75 cm<sup>2</sup>, 175 cm<sup>2</sup>, and 225 cm<sup>2</sup>  
Specialised versions for organoid culture available.



## CELL CULTURE DISHES

### Features

- Available in multiple sizes and comprehensive range
- Imported polystyrene/polycarbonate
- Lid design facilitates optimal gas exchange
- Convenient stacking
- Enhanced accuracy for quantitative analysis

### Applications

Widely used in cell culture and antimicrobial susceptibility testing, among other applications

Multiple sizes and comprehensive range, featuring anti-slip grooves and serrated rings for one-handed operation and stacking. Available with untreated or ultra-low-binding surfaces.



## STERILE PIPETTE TIPS

### Features

- Multiple specifications available (10–1000 µL)
- Medical-grade polypropylene (PP) material, advanced injection moulding process
- Low-binding versions and filter-equipped versions available
- Boxed products ready for immediate use



## NEEDLE FILTERS

### Features

- DNAase, RNAase Free, pyrogens, and fibre release
- Available in three diameters: 13, 25, and 33mm
- Available in 0.22 and 0.45µm pore sizes



## PIPETTES

### Features

- Available in 1ml to 50ml volumes
- Individually packaged and rigorously sterilised
- Precise pipetting volume

# VI. ORGANOID-RELATED REAGENTS & KITS



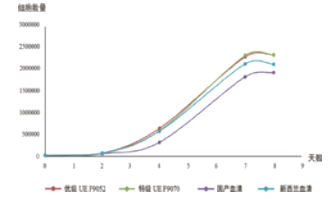
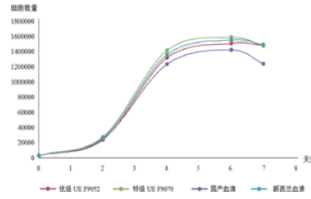
## FETAL BOVINE SERUM

### Features

- High quality and stability
- Traceable
- Naturally derived

### Applications

Sourced from premium Inner Mongolian pastures, with clearly traceable fetal bovine serum origins. Free from artificial additives, providing essential nutrients and growth factors for cells.



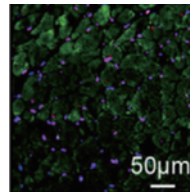
### Cell Proliferation Testing

Experimental evidence indicates that F907 and F9052 perform comparably to imported serum.



## CELL VIABILITY ASSAY KIT

Assess cell viability by measuring intracellular esterase activity and plasma membrane integrity using Calcein AM and PI.



## TUNEL APOPTOSIS DETECTION KIT

TUNEL kits available in multicolour options; labelled YF dye exhibits high fluorescence intensity and excellent photostability, suitable for microscopic detection.



## CYTOKINE

### Features

- Providing a range of cytokines meeting organoid proliferation and differentiation requirements
- Meets GMP standards with multiple system certifications



## ORGANOID CULTURE ECM

### Features

- High concentration, with low-concentration versions available
- Different formulations to meet diverse experimental needs, including organoid-specific formulations



## ORGANOID DIGEST

### Features

- Gentle and rapid tissue digestion
- Suitable for a various of sample types

## NORMAL TISSUE DIFFERENTIATION KIT

Covers 23 normal organoid cultures, simple operation, serum-free version available.



### Human organoids

Gastric epithelium, mammary gland, mammary epithelium, trachea, oesophagus, bile duct, brain tissue

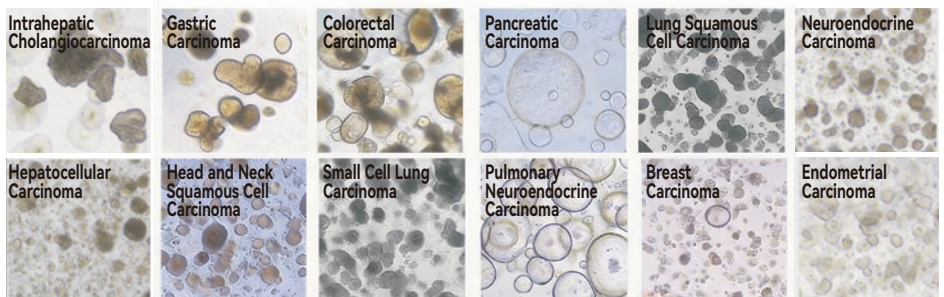


### Mouse organoids

Small intestine, colon, bile duct, trachea, brain tissue

## TUMOUR TISSUE DIFFERENTIATION KIT

Offering a diverse range of tissue-to-organoid differentiation kits for hassle-free, convenient scientific research. Supports over 18 organoid types, with serum-free formulations available.



# VII. ORGANOID-RELATED INSTRUMENTS



## CONSUMABLES-FREE CELL COUNTER

### Features

- No disposable consumables required for hassle-free counting
- Precise identification, efficient counting
- Seamless integration of microscopic imaging and statistical analysis



## FULLY AUTOMATIC CELL COUNTER

### Features

- 8-second Trypan blue viability detection
- CMOS-based advanced AI deep recognition algorithm
- Available in brightfield and fluorescence versions



## CELL THAWING DEVICE

### Features

- Compact and convenient, suitable for cryopreservation tubes
- Gentle thawing completed within 180 seconds
- Compliant with GMP requirements



## EXPERT IN LIVE CELL MONITORING

### Features

- Compact and user-friendly, with real-time monitoring
- Accompanies organoid growth throughout its entire lifecycle
- Fits within incubators for continuous monitoring



## STACKABLE CO<sub>2</sub> SHAKER INCUBATOR

### Features

- Three-tier stacking capability / Six-sided heating
- 90°C high-temperature high-humidity sterilisation + UV sterilisation



## INTELLIGENT TISSUE DISSOCIATION SYSTEM

### Features

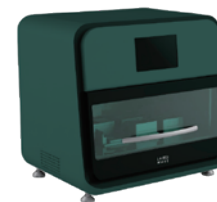
- Equipped with a 13-channel dissociation module
- Automated, intelligent and flexible, suitable for normal and tumour organoids
- High efficiency, high viability, uniformity, intelligent operation



## ORGANOID STAR CHART POSITIONING IMAGING SYSTEM

### Features

- Precise tracking, real-time monitoring, clear imaging
- High adaptability, multicolour fluorescence
- Enables observation of organoid three-dimensional structures



## HIGH-THROUGHPUT BIOPRINTING SYSTEM

### Features

- Flexible experimental design with straightforward operation
- Enables rapid and precise organoid printing
- Equipped with multiple printing modules compatible with diverse consumables



## ORGANOID REAL-TIME VIABILITY ANALYSIS SYSTEM

### Features

- Simple and user-friendly operation, streamlined workflow
- Multi-parameter adjustable for diverse applications
- Precise measurement to support high-throughput drug screening



## 3D CELL CLONATION SCREENING SYSTEM

### Features

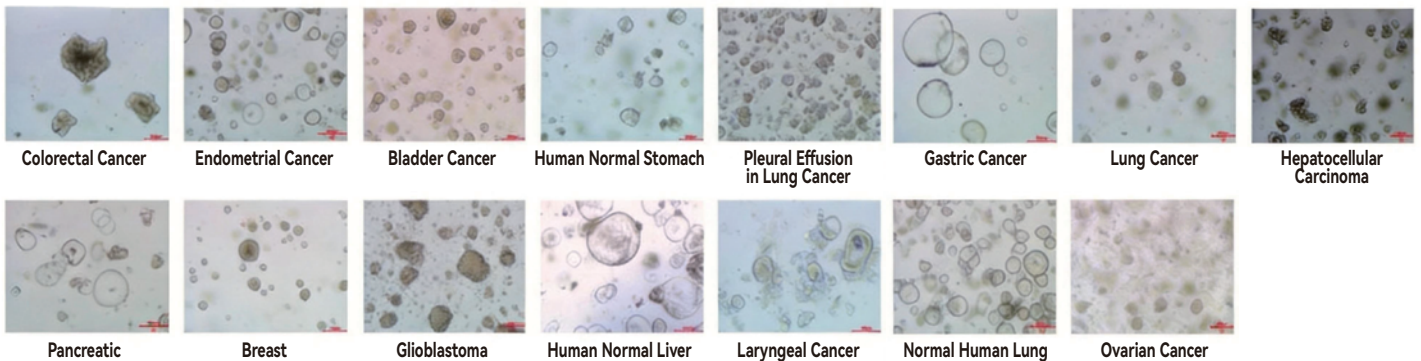
- Standardised, automated, and high accurate
- Simple operation, high efficiency, and flexibility
- User-friendly interface, automatic image saving

# SERVICES

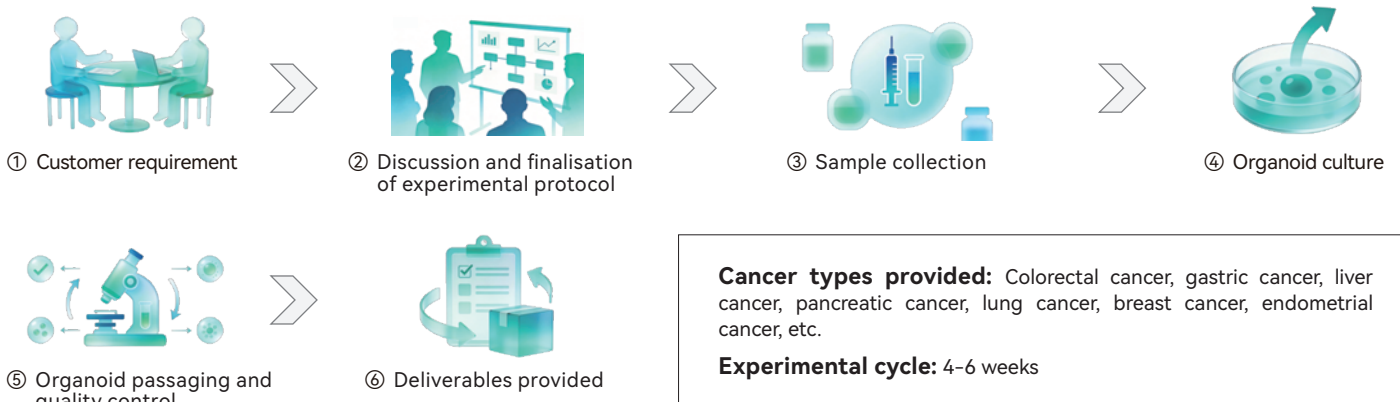
## PROJECT NAME

## PROJECT DETAILS

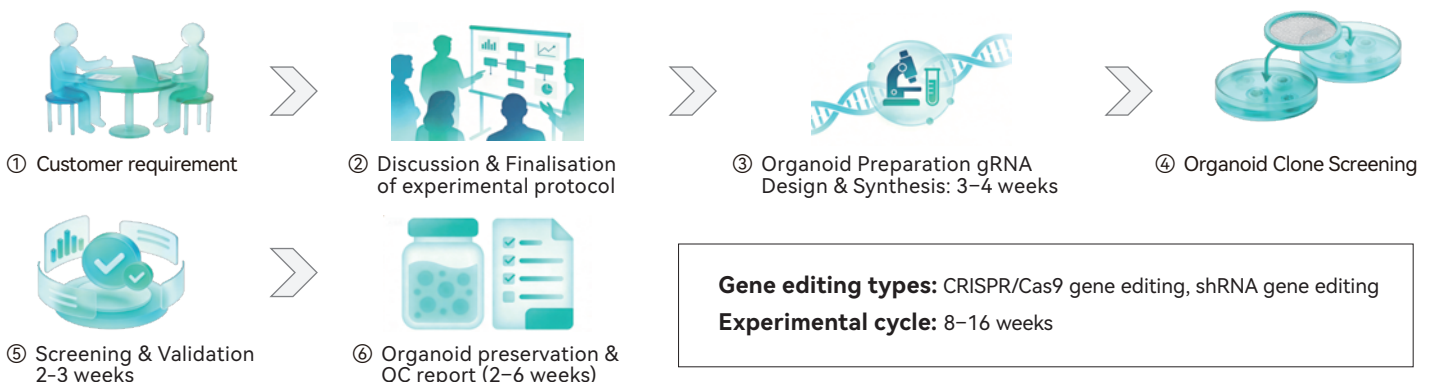
Tumour Organoid Construction Service	Construction of organoids for colorectal cancer, gastric cancer, liver cancer, and other tumours
Organoid Co-culture Service	Co-culture with immune cells including T cells and NK cells
Drug Sensitivity Testing	Drug sensitivity testing for macromolecular drugs, ADCs, and other therapeutic agents
Gene Editing Services	Gene editing for tumour organoids Simulating mutations
Organoid Pathological Analysis	Providing organoid pathology analysis



## VIII. TUMOR ORGANOID CONSTRUCTION SERVICE



## IX. ORGANOID GENE EDITING SERVICE



# ABOUT US

Founded in 2005, Shanghai BioScience Co., Ltd. is a platform-based service provider focused on the life sciences services sector, operating 29 offices/branches and managing over 300,000 product categories. With the mission of "Serving Science," the company has built a multi-dimensional product matrix to meet the needs of various research and production scenarios. It has established strategic partnerships with globally renowned enterprises such as Corning, Takara Bio, Danaher, and Thermo Fisher Scientific, while also maintaining close collaborations with over 20 top-tier life science brands in the industry, helping researchers achieve greater progress in the exploration of life sciences. Bioscience has become the exclusive national general distributor for Takara Bio in China.

BioScience Prime® is the collective name for the company's proprietary brands, covering four major categories: laboratory instruments, consumables, reagents, and technical services. Upholding Bioscience's consistent philosophy of innovation and dedication, BioScience Prime® leverages its self-built supply chain and technical service center to provide global life science researchers with high-quality, one-stop laboratory solutions.



## BIOLEADER

Specialists in  
Laboratory Plastic  
Consumables  
Exclusive Supplier  
to Industry Leaders  
for 6+ Years

## Uelandy®

Pioneers of  
Fluorescent Dyes  
in China's Biotech  
Industry

## LAB WAVE

Next-Generation  
Instruments for Cell,  
Molecular, Physical  
Chemistry & General  
Applications

## BIOSUNE

Advanced sequencing  
platform

## BIOPOHE

Customized Primer  
Synthesis RNA  
Synthesis