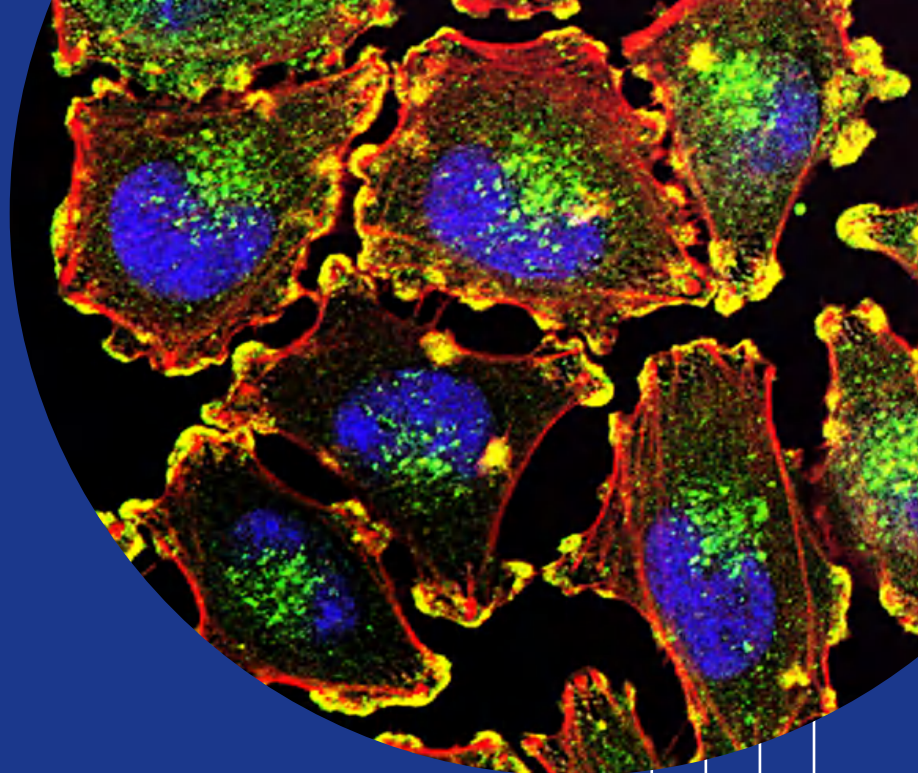


Galatek

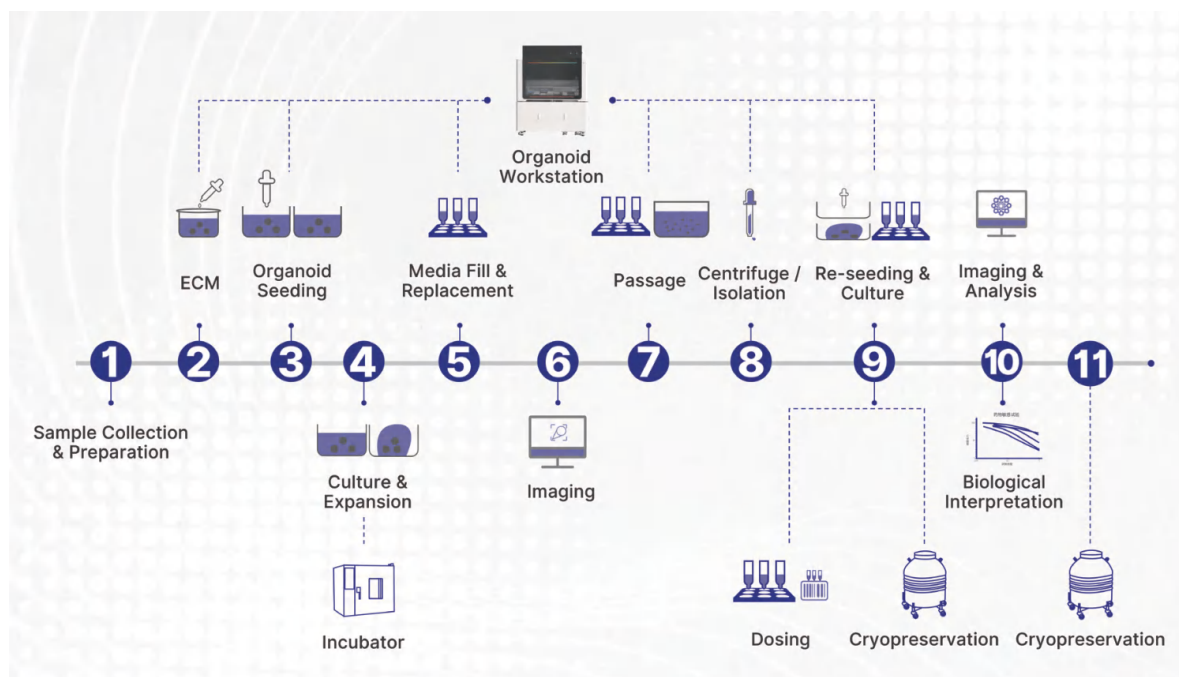
Automated Organoid Integrated Systems



PORTFOLIO INTRODUCTION

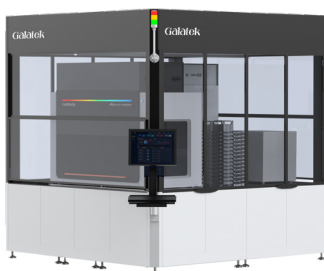
Galatek's 2D and 3D cell culture platforms combine automation, sensing, and intelligent software to reduce variability in complex biological workflows. The AI-powered system continuously evaluates culture data to intelligently optimize protocols in real time.

Organoid Culture and Drug Screening Workflow:



OFFERED SYSTEMS

The Titan2000 Organoid Workstation automates the full organoid workflow – from cell seeding, plating, and expansion, through passaging, media replacement, and high throughput drug screening within a standardized, AI-driven experimental environment.



The Titan3000 builds on the Titan2000 Organoid Workstation by integrating a robotic arm that transfers samples between the workstation, high content imaging system, incubator, and plate reader – enabling true whole-process automation with minimal manual intervention. Underpinned by AI-driven software, the platform ensures protocol standardization, end-to-end data traceability, and the reproducibility for drug screening and disease modeling applications.

Product Features



Automation

Support the full organoid and drug screening workflow to improve experimental efficiency with minimal manual intervention



AI-Driven Software

Create an easy-to-use system with built-in protocols, to improve data consistency with complex biological model



Improving Organoid Success Rates and Consistency

Built in standardized protocols improve the success and consistency of organoid cultures.



Standardized Experimental Procedures

Record work logs of organoid primary development and drug screening elevating process traceability and data management.



Compatibility Across Various Organoid Models

Supports the culture of various adult stem cell-derived and iPSC-derived organoids

Product Features cont.

Features	Titan2000	Titan3000
Pipetting Module	8-Channel independent operation	8-Channel independent operation
Heating/Cooling	✓	✓
Positive Pressure HEPA	✓	✓
Centrifuge	✓	✓
Media Replacement Module	✓	✓
Incubator		✓
High Content Imaging System		✓
Microplate Reader		✓
Consumable Stacker		✓
Sample Transfer Robotic Arm		✓
AI Driven Software	✓	✓

PRODUCT PARAMETERS

Titan2000

Category	Parameter	Specification		
Appearance	Dimensions (LxWxH)	1,960 x 780 x 2,012 mm		
	Net Weight	500 kg		
Power Supply	Voltage	100 - 240 VAC		
	Frequency	50/60 Hz		
	Rated Power	3.6 kW		
Operating Environment	Temperature	15°C - 32°C		
	Humidity	30% - 80% (no condensation, indoor)		
Pipetting Performance	Pipetting Principle	Air Displacement		
	Pipetting Range	1 - 1,000 µL		
	Pipetting Channel Types	Flexible 8-channel with adjustable channel spacing from 9 - 18 mm		
	Pipetting Accuracy	Tip Size	Pipetting Volume	Precision
		10 µL	2 µL	5.00%
		10 µL	10 µL	3.00%
		200 µL	50 µL	2.00%
		1,000 µL	1,000 µL	0.75%

