Anivance ai

WHERE BIOLOGY MEETS ENGINEERING: THE FUTURE OF IN VITRO MODELING

Organ modeling **3 - 28 days** ▶ Drug Simulation **0 - 48 hours** **8X Faster Toxicity Detection** ▶ Images analysis **< 1 minute**

CREATE YOUR ORGAN ON-CHIP

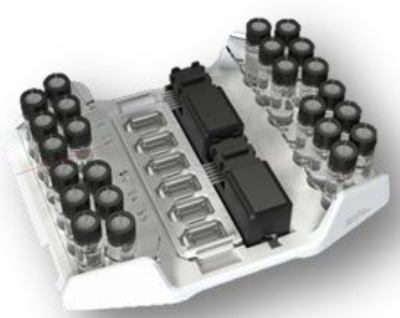
Our platform provides physiologically relevant 3D models for respiratory, hepatic, fibrotic, and cancer systems. With integrated organ-on-chip and aerosol modules, it supports ALI culture, automated flow control, and multi-cell co-culture. These features enable detailed studies of drug deposition, tissue interaction, and efficacy.

Biomimetic Organ-on-Chip Platform

This microfluidic chip supports single- and multi-cell co-cultures for tissue-specific modeling under controlled microenvironments, and has been validated in **over 10 patient-derived** organ models including airway, liver, intestine, and cancer. It also enables analysis of **more than 10 biological indicators** such as barrier integrity, mucus production, inflammatory response, and drug-induced toxicity.

Dynamic Perfusion System for Physiological Simulation

This perfusion module delivers precise, programmable flow to sustain dynamic culture conditions. It supports continuous nutrient exchange and mimics physiological shear stress, promoting cell differentiation and maintaining functionality **for over 28 days**. This enables long-term viability and maturation of organ-on-chip models in human-relevant conditions.



Aerosol Exposure Module for Inhalation

This aerosol exposure module automates culture for **up to 8 organ-on-chip systems** and delivers controlled airflow and aerosols to airway models under ALI conditions. It simulates real inhalation, enabling studies of drug deposition, ciliary motion, mucus clearance, and particle dynamics. As a result, it is ideal for testing inhaled drugs, surfactants, biologics, and anti-fibrotic therapies.

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Check our website for a current listing of worldwide distributors.

Anivance AI's platform supports the transition from discovery to regulatory submission, enabling human-relevant preclinical evaluation aligned with IND/CMC and FDA's New Approach Methodologies (NAMs).

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