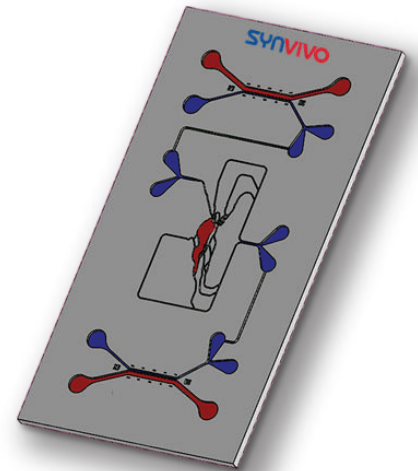


# VascuLink Multi-Organ-on-a-Chip System

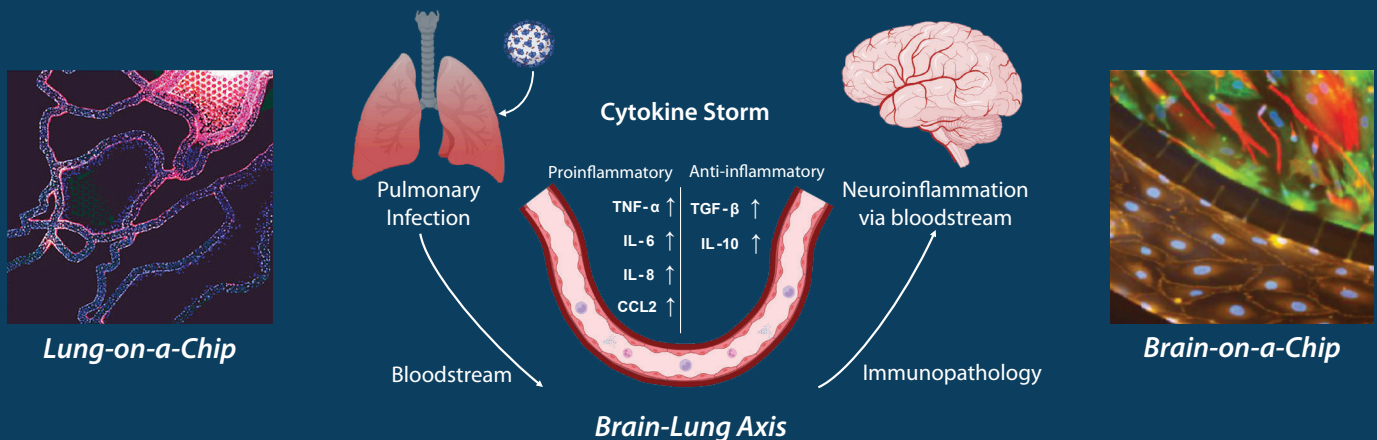
New! VascuLink™ Multi-Organ-on-a-Chip System, an ideal tool for studying inter-organ signaling and inflammation. This advanced system offers functional vascular connections between different organ models, creating a dynamic environment that closely mimics human biology.



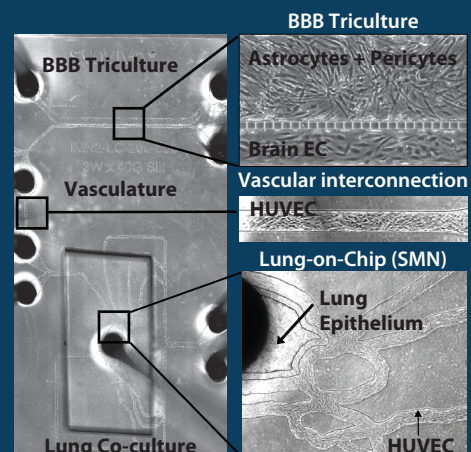
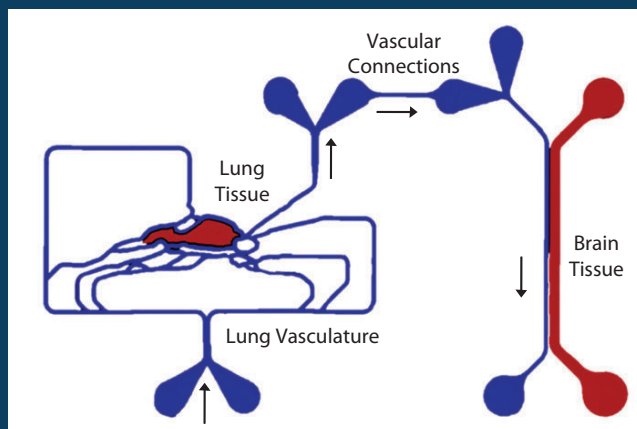
## Key features and benefits include:

- Enables inter-organ communication for systemic drug behavior analysis
- Provides insights into drug metabolism, clearance, and efficacy
- Allows for assessment of inflammation and potential toxicity across multiple organ systems

## Modeling the Brain-Lung Axis on-a-Chip



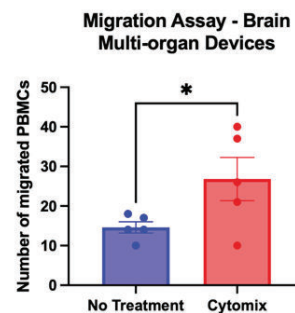
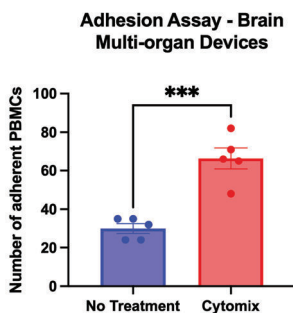
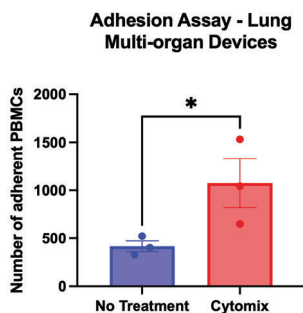
## Brain-Lung Multi-organ-on-a-Chip



Brain-Lung model functionalized using a variety of human cell types to produce organ specific endothelium and tissue compartments.

# Integrated Inflammation Assay Readouts

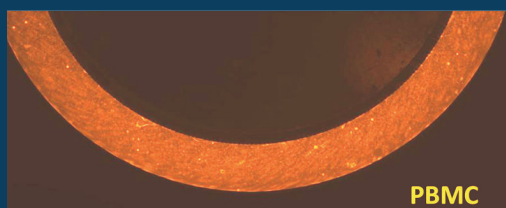
## PBMC Adhesion to Lung or Brain Endothelium and Migration in Brain Tissue



Administration of an inflammation inducing cocktail (Cytomix) into lung compartment of multi-organ-on-a-chip resulted in increased leukocyte adhesion and migration in brain endothelium following exposure to media from inflamed lung tissue.

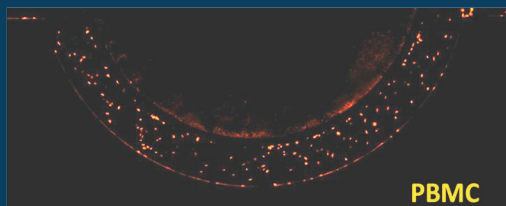
### Visualization of PBMC Delivery in Whole Blood and Adhesion to Inflamed Endothelium

20% (v/v) Whole Blood Inflamed HUVEC



PBMC

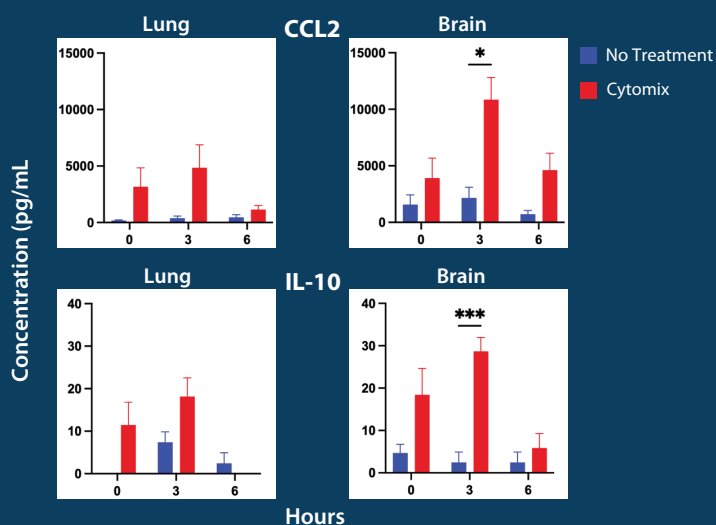
Leukocyte Adhesion



PBMC

PBMCs in whole blood can be stained and visualized for leukocyte adhesion to inflamed endothelium in a non-autologous integrated inflammation assay.

### Cytokine Quantification



Active production of CCL-2 chemokine and IL-10 cytokine was observed in brain and lung tissues. The production of these cytokines and chemokines (both pro- and anti-inflammatory) suggests that systemic inflammation and a signaling cascade from lung to brain was successfully achieved in the multiorgan OOC model.

## Product Purchase Options

Catalog#	Description	Price
501001	Vasculink Multi-Organ-on-a-Chip - 2 Organ Starter Kit - Includes 12 chips, pneumatic priming device, tubing, clamps, syringes and needles	\$4,500
108001-3	Vasculink Multi-Organ-on-a-Chip - 2 Organ - Pack of 3	\$600

Contact our expert scientific team for more information

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