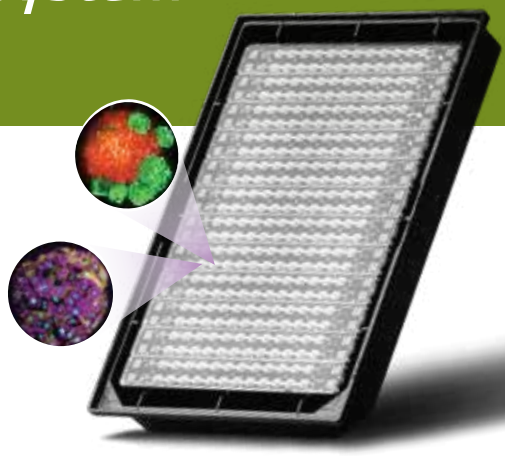
The Model of Excellence

Most Scalable Multi-organ System

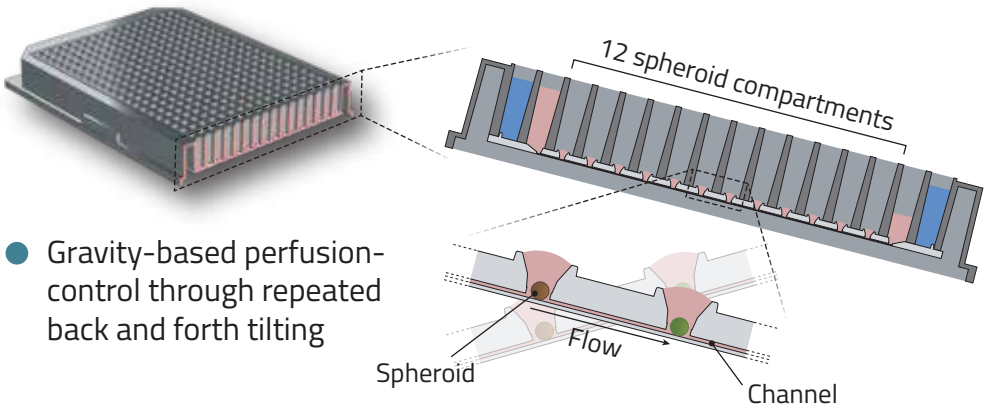


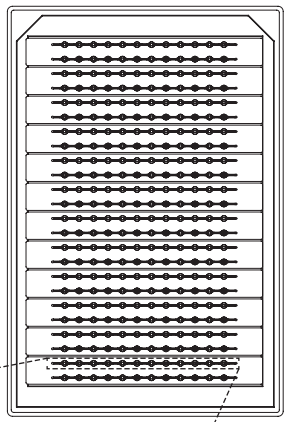
Discover Akura™ Flow 384

Flexible Pick-and-Place **Organ-Organ** **Crosstalk**

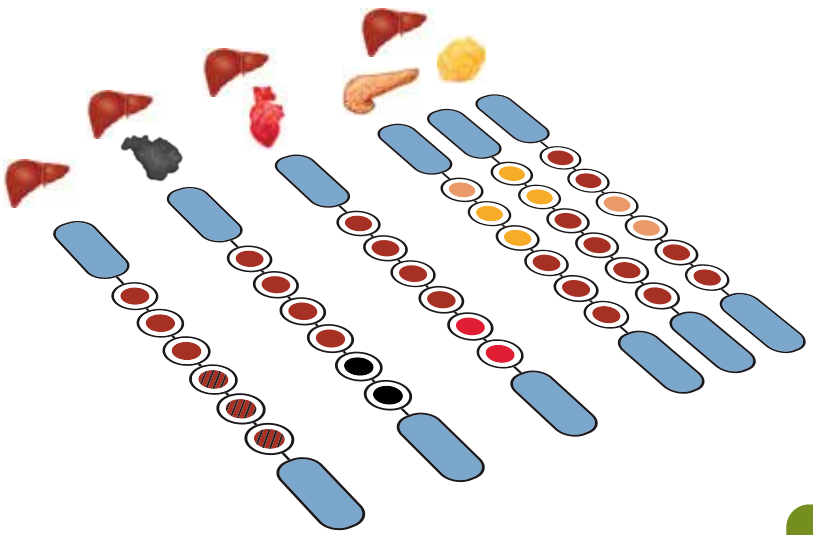
Plate Layout

- 384-well format engineered for spheroids
- High-density arrangement of **24x 12-tissue** channels
- Gravity-based perfusion-control through repeated back and forth tilting
- Interconnecting up to 12 spheroids by a microfluidic channel





Applications



- Signaling between Healthy and Diseased Tissue
- Pro-drug Activation and Drug-drug Interaction
- Metabolite Toxicity on On-target and Off-target Tissues
- Metabolite Disease Modeling

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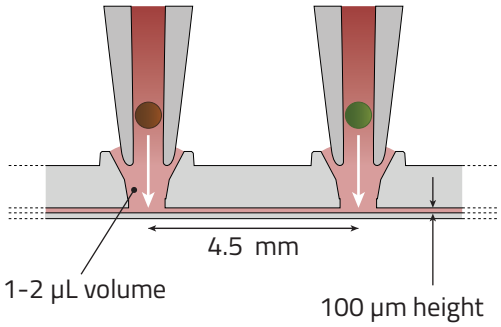
Unique Features



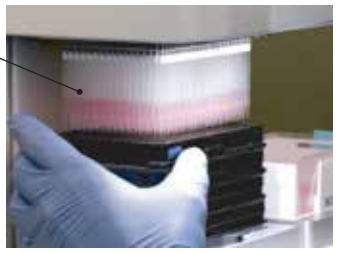
Experience a highly flexible multi-organ platform

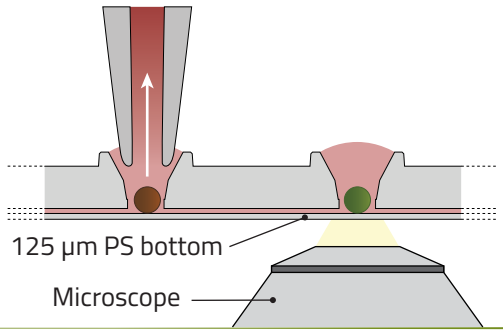
- Conical well design with SureXchange™ ledge for easy gravity-based loading and access of spheroids
- Quick plug-and-play assembly of different microtissue types and seamless integration of additional models in the future
- Spheroid compartment with minimal dead volume enabling very precise medium exchange and drug treatment and low experimental variation

Rely on universal plate standards and low operational complexity

- ANSI/SLAS standard format quick implementation widely used lab tools
- Full compatibility and with automation and robotic liquid handlers
- Gravity-based and pumpless flow control for simple plate handling

Multi-channel systems



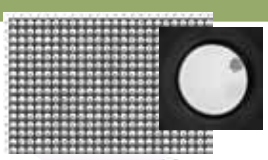


Access a wide range of readout methods

- Anytime access to supernatants using manual or automated pipetting
- Parallel retrieval of spheroids for lytic assays, histology or RNA sequencing
- In-situ high-content imaging with minimal optical aberration with a flat and transparent PS bottom

Workflow

Spheroid A Production
Spheroid B Production
Immune Cells Expansion



Akura™ 384 Microplate

Transfer to Akura™ Flow 384

VIAFLO Automated Pipetting

Long-term Culturing & Treatment

All-in-One tilting unit controlling continuous gravity-based flow

Read Outs

Biochemical assays of spheroids and supernatants

High-content Imaging

RNA Seq