



The open organ-on-chip platform

DynamicOrgan System



➤ Established models



➤ Human relevant data



Multicellular tissue



Vasculature



Immune cells



Microbiome



Pathogens

Build human *in vitro* **disease and infection models** with the DynamicOrgan System. A system that includes pumps, biochips, consumables and the freedom to keep using standard laboratory equipment.

➤ The open platform

- / No proprietary equipment or capex spending
- / Easy handling/integration
- / Works with established standards
- / Work with equipment you already have
- / Scalable sample number and tissue complexity



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Applications



Tissue Barrier Models -
Transport Studies



Immune Cell Perfusion &
Migration



Drug Safety Profiling



Antibody Safety and
Target Profiling



Host-Microbiome
Interaction



Infection & Disease
Modelling

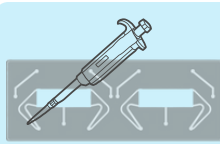


Sampling

Imaging

Workflow

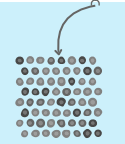
Opt.: Integration
of immune
cells/microbes



Chip sterilization



Application of
collagen A



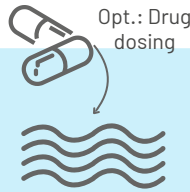
Cell seeding &
growth



3 days to
4 weeks



Cutting of chip
membrane



Opt.: Drug
dosing

Perfusion set-up or
medium exchange in static culture



30
min



Tissue & supernatant
analysis



Cleaning of
equipment



References



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