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TAKE YOUR RESEARCH
TO THE NEXT LEVEL
WITH
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TECHNOLOGY**



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**THE
Vessel-on-a-chip
Company**

Complete Microfluidic and
organ-on-a-chip solutions

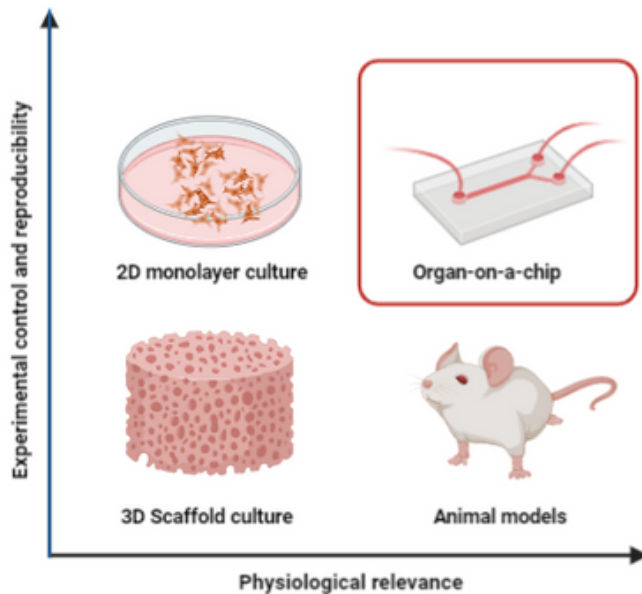
Vessel-on-a-chip



ADVANTAGES OF VESSEL-ON-A-CHIP

CURRENT SITUATION

In vitro vascular research **classically use 2D** cultures of vascular cells, which **do not mimic the human physiological conditions!**



① Physiological flow

Complete **numerical simulations, geometry** and **controlled flow conditions** allow to reproduce **physiological conditions**.

② 3D cell culture

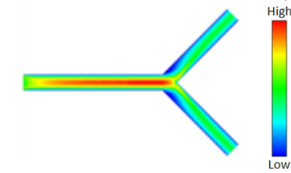
Improved **geometry** to simulate **physiological conditions** for **cell culture**.

③ Functional assays

Such as **toxicity tests, circulating cell analysis, shear stress assays, dynamic studies**, etc.

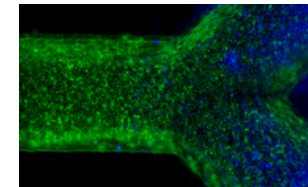
GET THE MOST OUT OF YOUR RESEARCH

Physiological flow



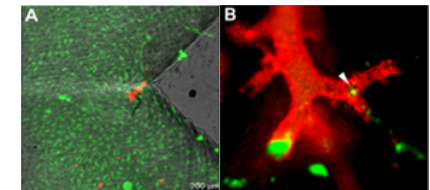
Numerical simulations in a vessel-on-a-chip show **differences in velocity** in the **bifurcated channel**.

3D cell culture



Optical chips to allow microscopy **fluorescence imaging** of HUVEC culture on the walls of the channel.

Circulating assays



Circulating Tumor Cells (CTC) interactions in **vascular bifurcation**, both on a chip (A) and in vivo (B).