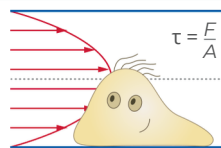
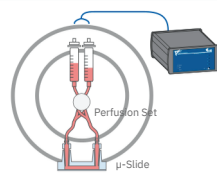


### Defined Shear Stress



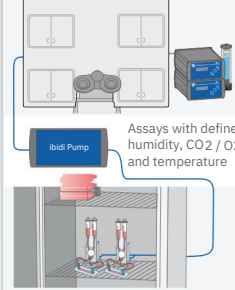
- Software-based flow programming including shear stress and shear rate calculation
- Simulation of all physiological flow patterns with a wide shear stress range (0.1–200 dyn/cm<sup>2</sup>)

### Closed System

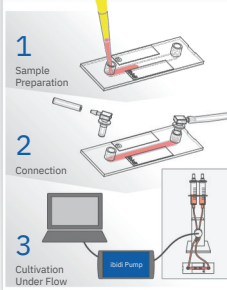


- Long-term sterile setup
- Recirculating medium at low volumes
- No medium contact with mechanical parts

### Physiological Conditions



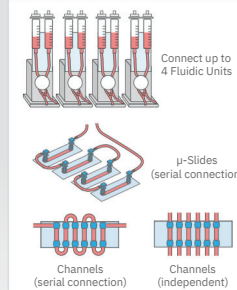
### Easy Workflow



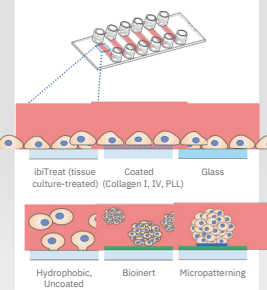
### Standard Luer Ports

- Plug-and-play connection
- No microfluidic knowledge necessary
- Easy adaptation to custom-specific setups

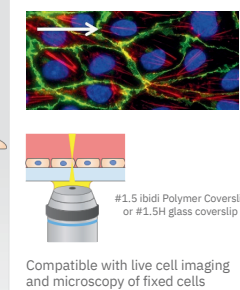
### Parallelization



### Flow Chamber Surfaces



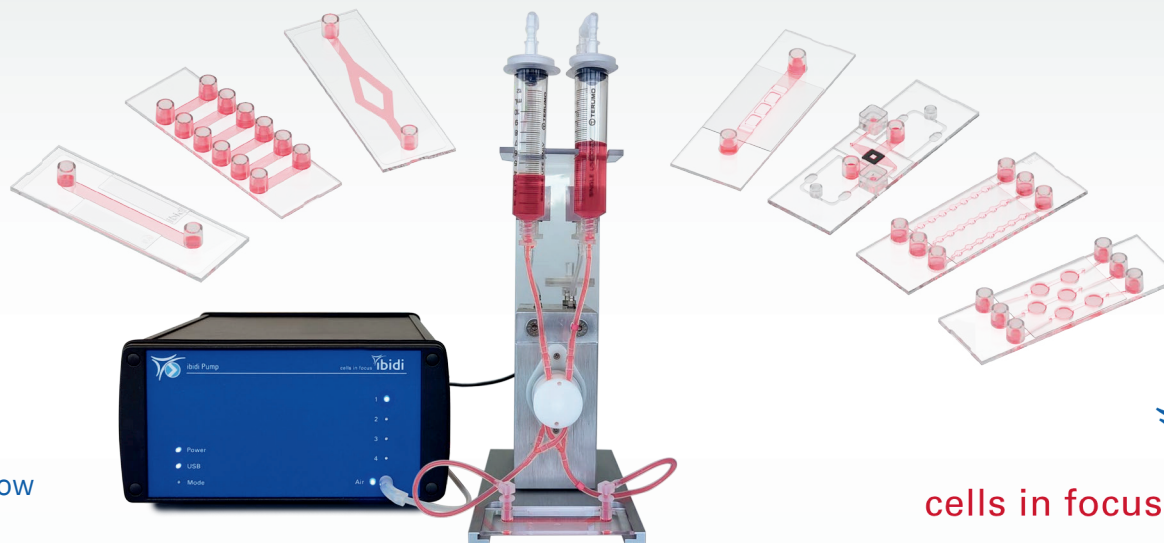
### Microscopy Readout



# The ibidi Pump System

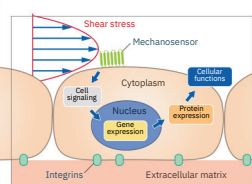
## Revolutionize Your Cell Culture Assays

- Establish perfused *in vivo*-like cell cultures
- Simulate defined flow types (laminar, unidirectional, pulsatile, and oscillatory)
- Compatible with μ-Slides with Luer adapters
- Combine with microscopes for live cell imaging under flow

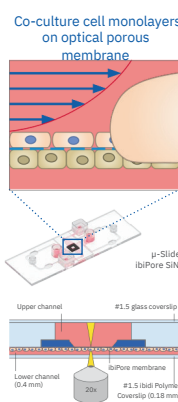
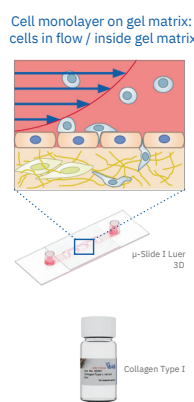
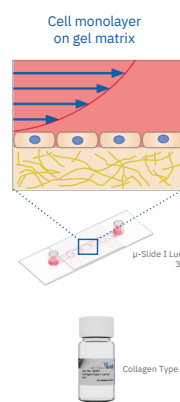
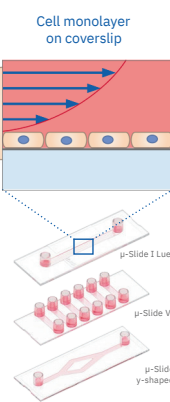


cells in focus **ibidi**®

### Wall Shear Stress

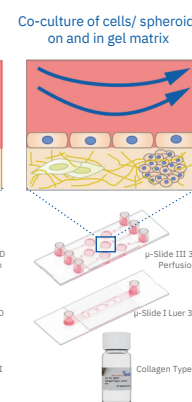
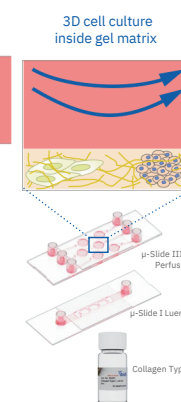
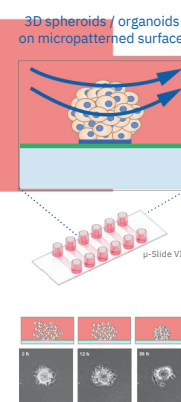
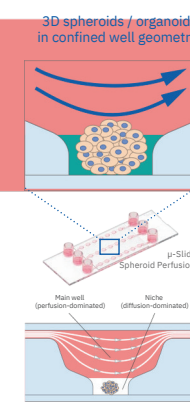


- Simulation of mechanical forces (shear stress) created by fluid flow in biofluidic systems (e.g., blood or lymphatic vessels, nephrons)
- Physiological long-term cultivation of vascular endothelial and epithelial cells
- Analysis of relevant readouts, such as cell morphology, behavior, and physiology



### Perfusion-Based 3D Bioreactor

- Physiological long-term 2D and 3D cell culture (e.g., of organoids, spheroids, organs-on-a-chip)
- Continuous medium exchange for constant nutrient supply
- Ensured optimal cell viability and health



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