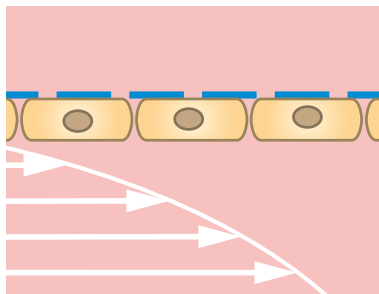


µ-Slide ibiPore SiN

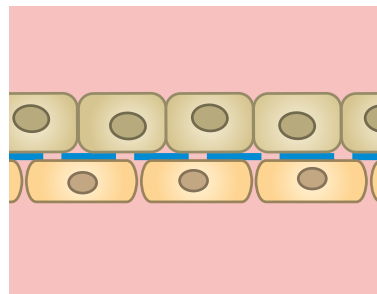
Transmigration and Transport Studies Through a Porous Membrane

- ✓ Brilliant optical quality through the thin, porous membrane
- ✓ Full access to the apical and basal sides of adherent cells
- ✓ Different pore sizes available for various cell types



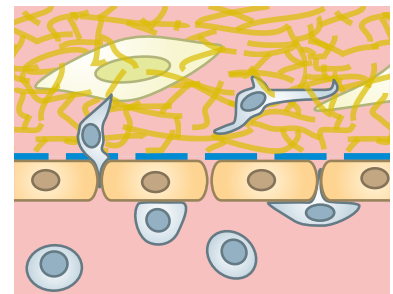
Endothelial Barrier Assays

Cells on the lower side of the membrane with defined shear stress



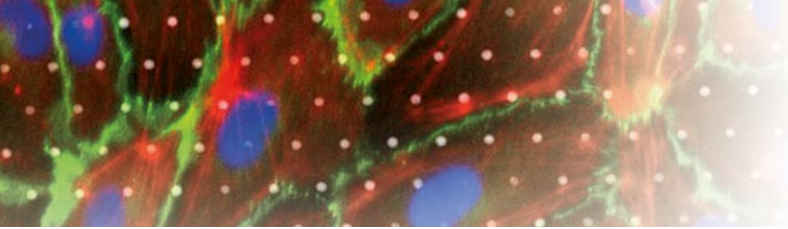
Cell Barrier and Co-Culture Assays

Co-culture of two cell types on both sides of the membrane



Cell Transport in a 3D Gel Matrix

Transmigration of cells across a cell monolayer on the membrane

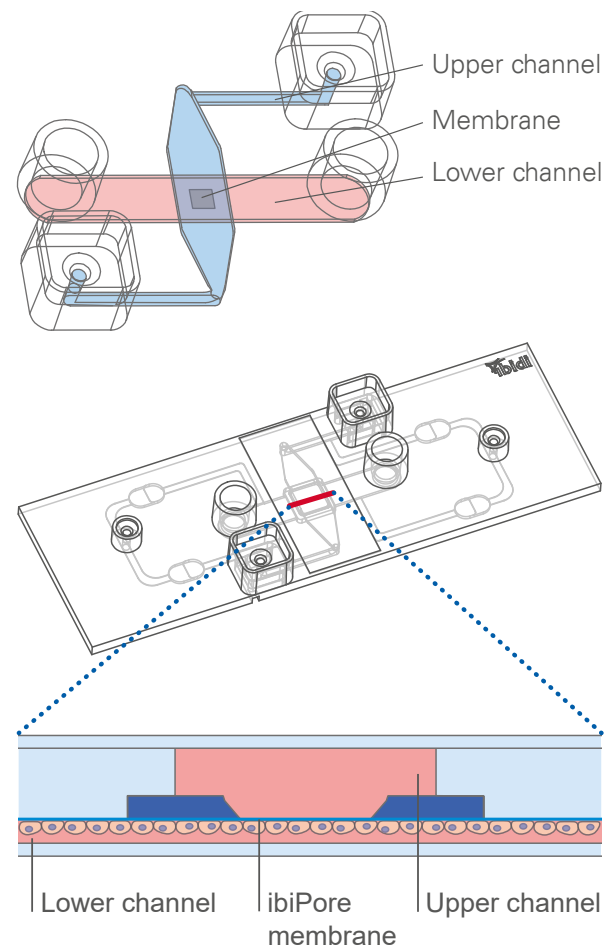


μ-Slide ibiPore SiN

Transmigration and Transport Studies Through a Porous Membrane

Technical Features

- Cross-channel structure with a porous optical silicon membrane in between
- Excellent optical properties, comparable to a glass coverslip
- Pore sizes 0.5 μm, 3 μm, 5 μm, or 8 μm available
- Membrane thickness 0.4 μm (400 nm)
- For use with objective lenses with a working distance >0.5 mm
- Fully compatible with the ibidi Pump System
- Defined shear stress and shear rate levels in the lower channel



Recommended Pore Sizes for Different Applications

Applications	Example Cell Types	Recommended Pore Sizes
Permeability and transport studies	Endothelial, epithelial	0.5 μm 3 μm
Cell polarity assays	Endothelial, epithelial, kidney	0.5 μm 3 μm
Co-culture assays	Fibroblasts, endothelial, epithelial, cancer, stem cells	0.5 μm 3 μm
Transmigration, chemotaxis assays	Endothelial, leukocytes (neutrophils), lymphocytes (T cells, B cells)	3 μm 5 μm 8 μm
Invasion, migration, and metastatic potential assays	Monocytes, macrophages, lymphocytes (T cells, B cells), cancer, endothelial, epithelial, fibroblasts, osteoblasts	3 μm 5 μm 8 μm

in cooperation with  **SiMPore**
Precision Membrane Technologies