



## Angiogenesis Assays

Perform Tube Formation, Sprouting Assays, and 3D Cell Culture

### ✓ Brilliant Visualization of Cells

No gel meniscus is formed, all cells are in one focal plane

### ✓ Cost-Effective Experiments

Only 10  $\mu$ l gel per well needed

### ✓ Also Ideal for 3D Cell Culture

Broad range of gels (e.g., Matrigel®, collagen, and agarose)

“

*Using the  $\mu$ -Slide 15 Well 3D is the only possibility that I know for achieving a **consistently good optical quality** in the tube formation assay and **saving Matrigel** at the same time.*

*Prof. Stefan Zahler  
PhD, Ludwig-Maximilians-University, Germany*

### Applications

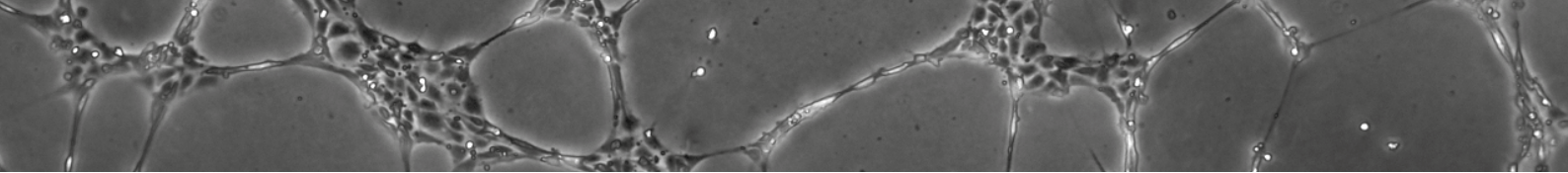
- Tube formation and angiogenesis assays
- Sprouting assays
- 3D cell culture
- Immunofluorescence staining



Watch the handling video [Tube Formation Assays Using the  \$\mu\$ -Slide 15 Well 3D](#) on our website.

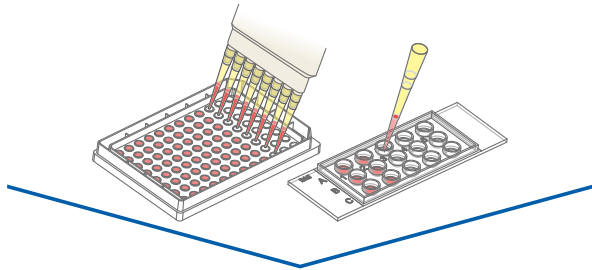
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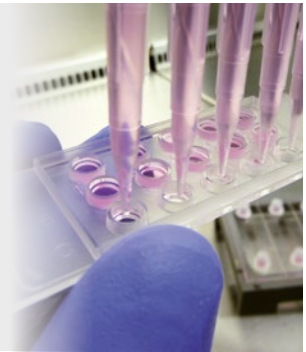
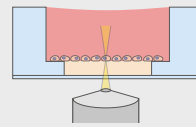
## Sample Preparation

Seed your cells on minimal amounts of Matrigel and take advantage of the “well-in-a-well” feature.



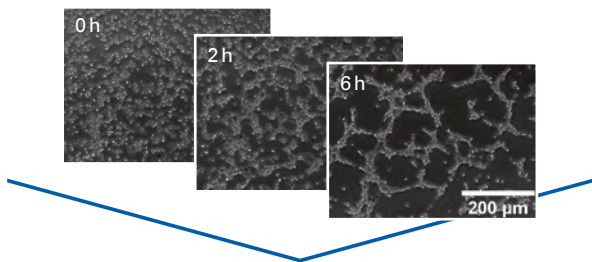
### μ-Slide 15 Well 3D

The “well-in-a-well” technology requires only 10  $\mu$ l gel per well, no gel meniscus



## Live Cell Imaging

Get brilliant microscopic images in real time under physiological conditions—without gel meniscus.



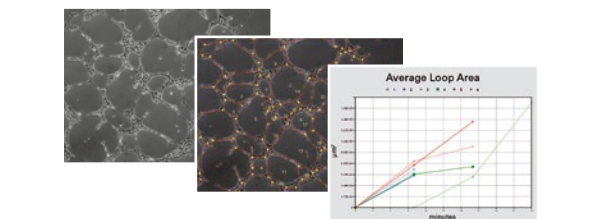
### ibidi Stage Top Incubator

The ibidi solution for creating and maintaining a physiological environment under the microscope



## Data Analysis

Analyze your experiment with freeware (e.g., ImageJ) or machine learning-based solutions.



## Technical Details

|                                                                | μ-Slide 15 Well 3D<br>No. 81506 | μ-Plate 96 Well 3D<br>No. 89646 |
|----------------------------------------------------------------|---------------------------------|---------------------------------|
| Number of wells                                                | 15                              | 96                              |
| Volume inner well                                              | 10 $\mu$ l                      | 10 $\mu$ l                      |
| Ø inner well                                                   | 4 mm                            | 4 mm                            |
| Volume upper well                                              | 50 $\mu$ l                      | 70 $\mu$ l                      |
| Ø upper well                                                   | 5 mm                            | 5 mm                            |
| Growth area per inner well                                     | 0.125 cm <sup>2</sup>           | 0.125 cm <sup>2</sup>           |
| Bottom: ibidi Polymer Coverslip or ibidi Glass Coverslip #1.5H |                                 |                                 |

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