

## ibidi Solutions for Neurobiology

Study Neurons in Health and Disease

### ibidi Provides Solutions to Visualize Neurons and Glia on Cellular and Subcellular Levels:

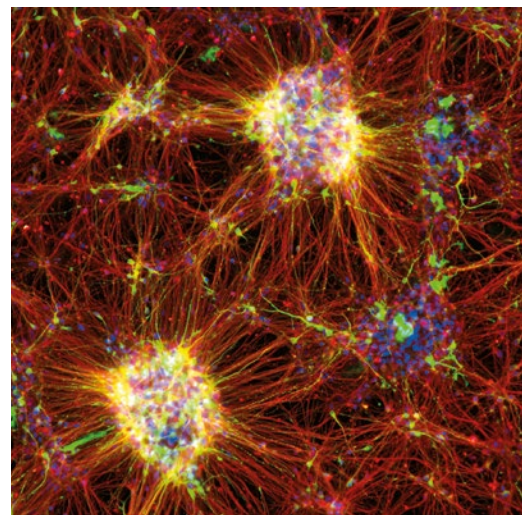
- Immunofluorescence and Live Cell Imaging of Neural Cells
- Monitoring Neurite Outgrowth
- Imaging of 3D Neural Cultures
- Cultivation of Brain Cells Under Flow

“

*We tested the  $\mu$ -Dish<sup>35 mm, high</sup> ibiTreat for our **human iPSC derived neuronal cells**.*

*Now, we have switched completely from glass coverslips to **ibidi ibiTreat** plastic ware. This material is **so much better for neuronal growth**.*

*Dr. Vladimir Milenkovic  
University Regensburg, Germany*



*Dopaminergic neurons derived from human induced pluripotent stem cells (iPSCs) in an ibidi  $\mu$ -Plate 96 Well Black.*

*Data by: Asuka Morizane, Kyoto University, Japan.*

*Top left: Rat fibroblast, surrounded by parallel-aligned rat Schwann cells (SCs), cultured in an ibidi  $\mu$ -Slide 8 Well.*

*Data by: Flavia Millesi, Medical University Vienna, Austria.*



Find more neuro-  
biology solutions at:

**ibidi.com/neuro**

Immunofluorescence



**Simplify your IF protocol:**  
The ibidi all-in-one chambers combine optimal conditions for immunofluorescence staining and high-resolution microscopy. The ibidi Mounting Medium is optimized for fluorescence microscopy and ibidi  $\mu$ -Slides.

Neural 3D Models



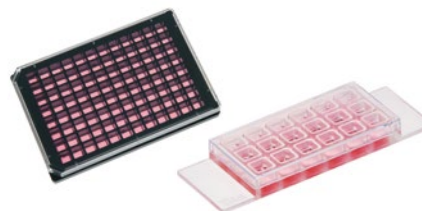
**Mimic the cellular microenvironment:**  
The ibidi 3D  $\mu$ -Slides allow for studying spheroids, organoids, and model organisms. ibidi Collagen I, Rat Tail, provides ECM structures.

Functional Cell-Based Assays



**Special solutions for specialized assays:**  
The ibidi chambers are ideal for a wide range of assays (e.g., chemotaxis, wound healing, angiogenesis) using neurons and other brain-derived cells.

High Throughput Screening



**Speed up your work:**  
The  $\mu$ -Slide 18 Well and the ibidi  $\mu$ -Plates can be used to screen various conditions (e.g., compound toxicology and drug screenings) in one experimental setup.

Brain Cells Under Flow



**Analyze the effect of shear stress:**  
The ibidi Pump System and the channel slides are optimal for cell culture under flow (e.g., microvascular endothelial cells).

Live Cell Imaging



**Create physiological conditions:**  
The ibidi Stage Top Incubators enable high-resolution live cell microscopy with precisely controlled temperature, humidity, CO<sub>2</sub>, and O<sub>2</sub>.

**Order your free sample at: [ibidi.com/freesample](https://www.ibidi.com/freesample)**