

ibidi Solutions for Neurobiology

Study Neurons in Health and Disease

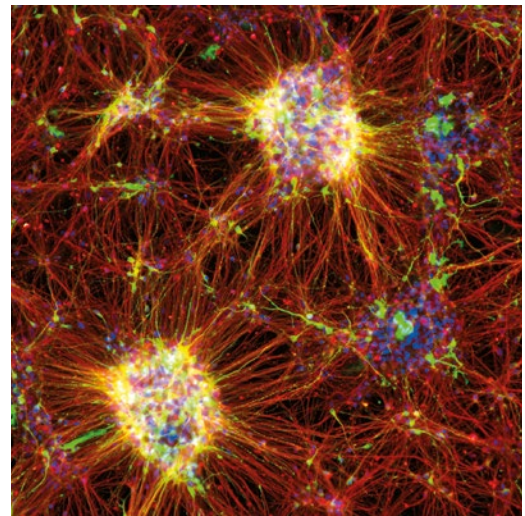
ibidi Provides Solutions to Visualize Neurons and Glia on Cellular and Subcellular Levels:

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

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*We tested the μ -Dish^{35 mm, high} 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 μ -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 μ -Slide 8 Well.

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

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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 μ -Slides.

Neural 3D Models



Mimic the cellular microenvironment:
The ibidi 3D μ -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 μ -Slide 18 Well and the ibidi μ -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, CO₂, and O₂.

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