



# ibidi Solutions for Immunology Research

## Select Your Optimal Assay

Immune Cell Analysis

Chemotaxis

Immune Cell Migration

Immunology

Rolling and Adhesion

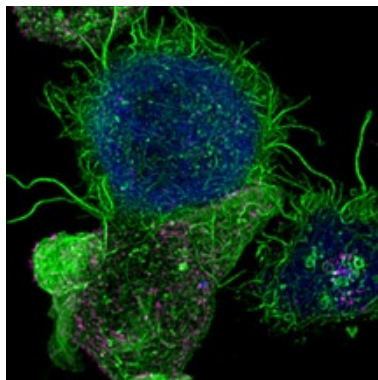
Immunology research is a major focus at ibidi. We develop solutions that enable the *in vitro* investigation of immune cell behavior.

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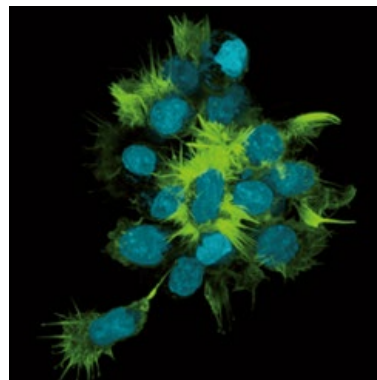
*ibidi made it much simpler for me to prepare cells for **confocal** and **live cell microscopy**.*

*Cells that attached poorly to glass **grew better** on ibidi  $\mu$ -Slides and  $\mu$ -Dishes.*

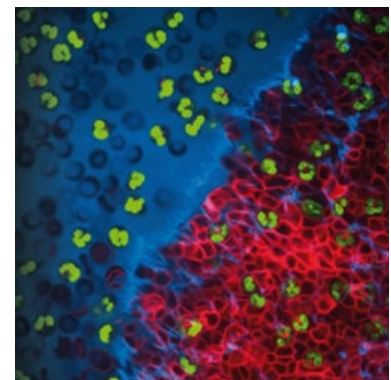
*Esther G.L. Koh, PhD, National University of Singapore*



A Jurkat T cell (bottom) forms an immunological synapse with an antigen-presenting cell (top, blue) in the  $\mu$ -Slide 8 Well. F-actin: green, multivesicular bodies: magenta.  
Image by Manuel Izquierdo, IIBM, CSIC, Madrid, Spain.



Leukemic B cell cluster stained for Phalloidin (green) and DAPI (blue), exposed to a CCL19 gradient in the  $\mu$ -Slide Chemotaxis.  
3D reconstruction of serial confocal sections by Javier Rey-Barroso; Physiopathology Center of Toulouse-Purpan, France.



Blood smear from a COVID-19 patient in the  $\mu$ -Slide 8 Well after induction of coagulation. Fibrin network: blue, erythrocytes: red, granulocyte nuclei: green.

Spinning disc confocal microscopy.  
Mirjam Bachler, Martin Hermann, Dietmar Fries, Medical University Innsbruck, Austria.

Immunofluorescence



**Simplify your IF protocol:**  
The ibidi chambers combine optimal conditions for immunofluorescence stainings and high-resolution microscopy.

3D Models



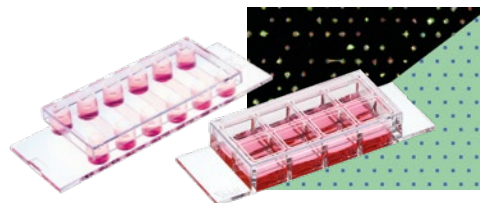
**Create a physiologic environment:**  
Specialized ibidi labware enables spheroid and organoid culture. ibidi Collagen I, Rat Tail, provides ECM structures.

Immunoncology and  
Microenvironment



**Analyze the tumor-stroma interaction:**  
The ibidi chambers are ideal for functional cell-based assays using immune and cancer cells.

Defined Cell Adhesion



**Perform CAR-T Cell Activity Assays:**  
Choose between one or multiple cells per spot: Ready-to-use micropatterned slides with various spot sizes, shapes, and spacings.

Immune Cell Migration



**Standardize your cell migration assays:**  
The ibidi Culture-Inserts have defined cell-free gaps for easy and reproducible wound healing assays.

Chemotaxis



**Establish stable long-term gradients:**  
The  $\mu$ -Slide Chemotaxis has a special geometry for chemotaxis assays in 2D/3D with slow or fast migrating cells.

Immune Cells Under Flow



**Analyze rolling and adhesion:**  
The ibidi Pump System and the channel slides are optimal for cell culture under flow assays.

Live Cell Imaging  
and Hypoxia



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