

## Chemotaxis Assays

Analyze Directed Migration of Adherent and Non-Adherent Cells

### ✓ Chemotaxis Measurement in Real-Time

Complete solution from sample preparation to quantitative data analysis

### ✓ Long-Term Experiments

Keep a linear and stable chemotactic gradient for over 48 hours

### ✓ Reproducible Results

Reliable and user-independent data

### 2D Chemotaxis

Chemotaxis of slow migrating, adherent cells on 2D surfaces (e.g., cancer cells, endothelial cells, and fibroblasts)

### 3D Chemotaxis

Chemotaxis of fast or slow migrating cells in 3D gel matrices (e.g., immune cells, tumor cells, and endothelial cells)

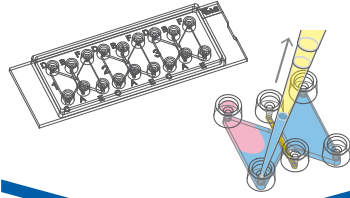
Additional equipment for researchers doing chemotaxis assays:

 <p><i>μ-Dish</i> 35 mm, high</p>	 <p>ibidi Heating &amp; Incubation System</p>	 <p><i>μ-Slide</i> 2   4   8 Well</p>	 <p>Collagen Type I, rat tail</p>	 <p>LifeAct</p>
Live Cell Imaging			Collagen	Actin Visualization

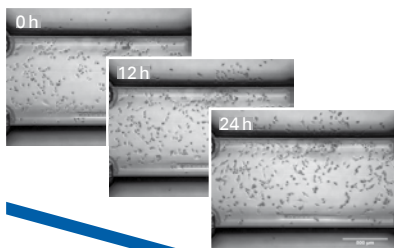
# Chemotaxis Assays

Analyze Directed Migration of Adherent and Non-Adherent Cells

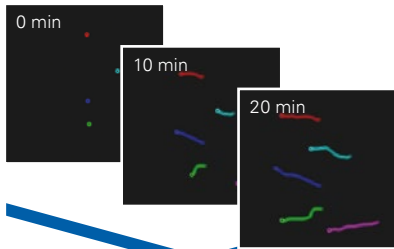
## Sample Preparation



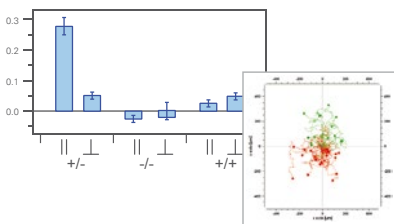
## Live Cell Imaging



## Cell Tracking

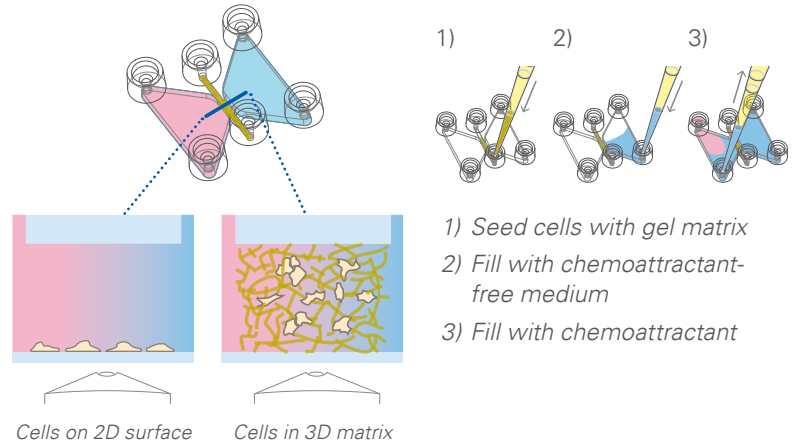


## Data Analysis



## The Principle of the $\mu$ -Slide Chemotaxis

Using the  $\mu$ -Slide Chemotaxis, a precisely defined and stable chemotactic gradient is created in a reproducible environment.



## Live Cell Microscopy and Cell Tracking

With live cell imaging, chemotaxis can be analyzed under physiological conditions in real time. Tracking the cells allows quantification of their movement over time. It can be done manually or automatically with special tracking software.

## Data Analysis

For further analysis of tracking data, ibidi has developed the **Chemotaxis and Migration Tool**, which is available for free at [ibidi.com/chemotaxis-tool](http://ibidi.com/chemotaxis-tool). This software provides statistical analysis and graphical display of the experimental data.



Register now for a **2-day laboratory course** at ibidi Munich, Germany: [ibidi.com/practical-courses](http://ibidi.com/practical-courses).

**FREE SAMPLES:** [ibidi.com/free-samples](http://ibidi.com/free-samples)

### Technical Details:

Chemotaxis chambers on slide	3
Volume per chamber	120 $\mu$ l
Observation area	2 x 1 mm <sup>2</sup>
Total height with plugs	12 mm
Volume chemoattractant	30 $\mu$ l

### Ordering Information:

Cat. No.	Description	Pcs./Box
80326	$\mu$ -Slide Chemotaxis ibiTreat: #1.5 polymer coverslip, tissue culture treated, sterilized	10
80322	$\mu$ -Slide Chemotaxis Collagen IV: #1.5 polymer coverslip, sterilized	10
80328	sticky-Slide Chemotaxis: sterilized	10
10812	Coverslips for sticky-Slides: #1.5H (170 $\mu$ m +/- 5 $\mu$ m) D 263 M Schott glass, 25 mm x 75 mm, unsterile	100