



Investigating Chemotaxis & Migration of Adherent and Non-Adherent Cells

✓ Chemotaxis Measurement in Real-Time

Complete solution from sample preparation to quantitative data analysis

✓ Easy Analysis

Automated tracking of label-free cells in phase contrast

✓ Reproducible Results

Reliable and user-independent data

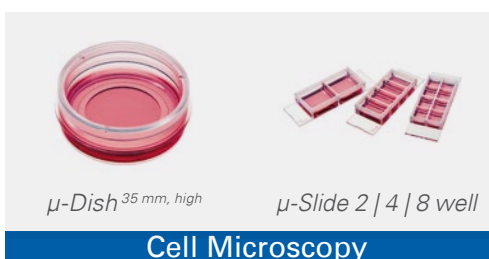
Chemotaxis in 2D

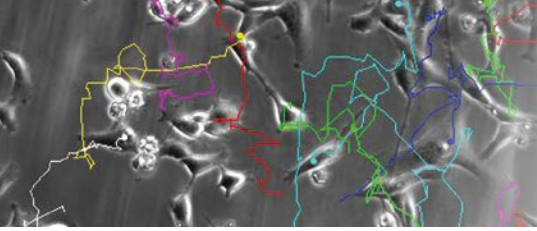
Chemotaxis of slow migrating, adherent cells on 2D surfaces (e.g. cancer cells, endothelial cells, and fibroblasts)

Chemotaxis in 3D

Chemotaxis of fast or slow migrating, non-adherent cells in gel matrices (e.g. lymphocytes, interstitial chemotaxis of tumor, and endothelial cells)

Additional equipment for researchers working with chemotaxis:





Investigating Chemotaxis & Migration of Adherent and Non-Adherent Cells

Sample Preparation

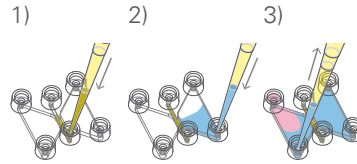
Video Microscopy

Cell Tracking

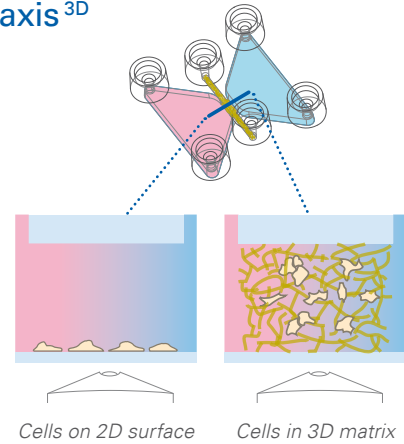
Visual Analysis

Quantitative and Statistical Analysis

Principle μ -Slide Chemotaxis^{3D}



1. Seed cells with gel matrix
2. Fill with chemoattractant-free medium
3. Fill with chemoattractant



Video Microscopy and Cell Tracking

Video microscopy is mandatory for ibidi's chemotaxis and migration assays. Tracking cells provides access to a quantification of cell movement. The tracking is done manually or automatically with special tracking software. Once the cells' traces have been tracked, the (x,y) values for each time point, can be further analyzed.

Data Analysis

WimTaxis, the web-based, quantitative image analysis of chemotaxis assays, provides automated tracking of label-free cell lines and bacteria in phase contrast. The image analysis solution generates fast results, without the need for extra hardware or software.

For data analysis from chemotaxis experiments (time stacks), ibidi has developed a software analysis tool. This "Chemotaxis and Migration Tool" is available for free at www.ibidi.com. This tool provides many graphs and statistical tests, which will perform an advanced analysis of the experimental data.

Register for a 2 day Laboratory Course at ibidi Munich / Germany: <http://ibidi.com/events/practical-courses>

Technical Details:

Chemotaxis chambers on slide	3
Volume per chamber	120 μ l
Observation area	2x1 mm ²
Total height with plugs	12 mm
Volume chemoattractant	30 μ l

FREE SAMPLES:
www.ibidi.com/free-samples

Ordering Information:

Cat. No.	Description	Pcs./Box
80326	μ -Slide Chemotaxis 3D ibiTreat: #1.5 polymer coverslip, tissue culture treated, sterilized	10
80322	μ -Slide Chemotaxis 3D Collagen IV: #1.5 polymer coverslip, sterilized	10
80328	sticky-Slide Chemotaxis 3D: sterilized	10
10812	Coverslips for sticky-Slides: # 1.5H (170 μ m +/- 5 μ m) D 263 M Schott glass, 25 mm x 75 mm, unsterile	100
30003	WimTaxis Quantitative Chemotaxis Cell Tracking Image Analysis	
30013	WimTaxis Quantitative Chemotaxis Bacteria Tracking Image Analysis	