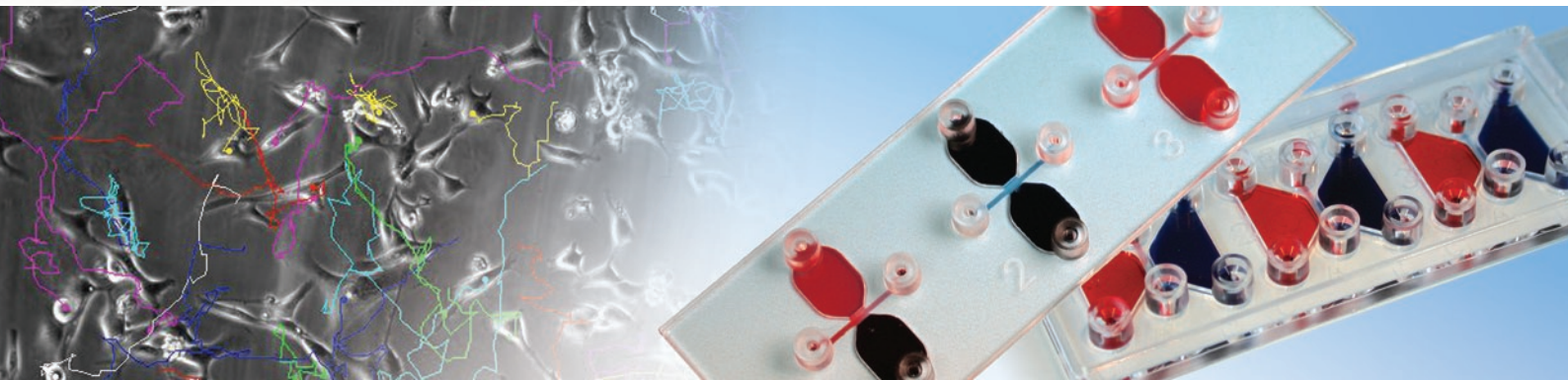


# Investigating Chemotaxis & Migration of Adherent and Non-Adherent Cells



## $\mu$ -Slide Chemotaxis

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

## $\mu$ -Slide Chemotaxis<sup>3D</sup>

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

### ✓ Chemotaxis Measurement in Real-Time

Stable gradients for long-term experiments

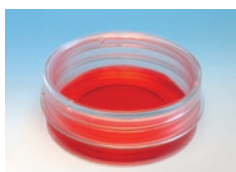
### ✓ Easy Analysis

Ideally suited for fluorescence microscopy

### ✓ Reproducible Results

Reliable and user-independent data

Additional equipment for researchers working with chemotaxis:



$\mu$ -Dish<sup>35mm, high</sup>

Cell Microscopy

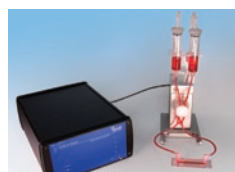


$\mu$ -Slide 8 well



$\mu$ -Slide I Luer family

Perfusion



ibidi Pump System

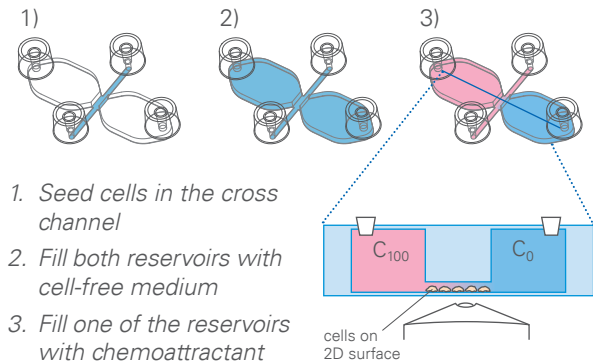


ibidi Heating stages

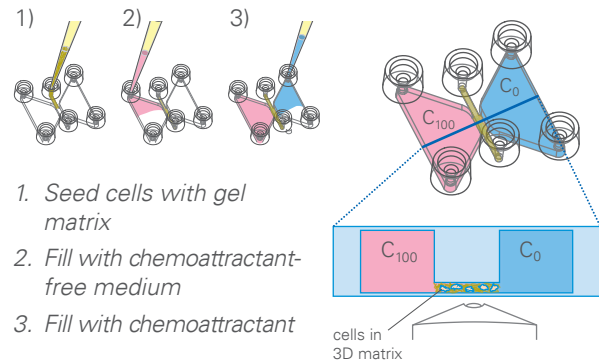
Video Microscopy

# Investigating Chemotaxis & Migration of Adherent and Non-Adherent Cells

## Principle $\mu$ -Slide Chemotaxis

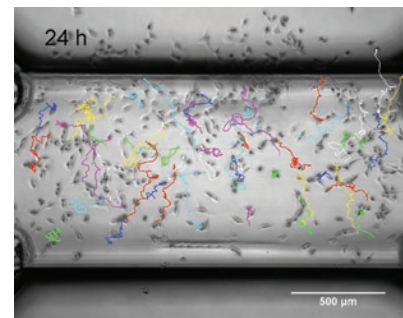


## Principle $\mu$ -Slide Chemotaxis<sup>3D</sup>



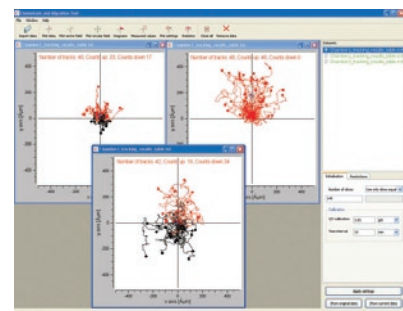
## Video Microscopy and Cell Tracking

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 – “Chemotaxis and Migration Tool”:

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](http://www.ibidi.com). This tool provides many graphs and statistical tests, which will perform an advanced analysis of the experimental data.



Technical Details	$\mu$ -Slide Chemotaxis	$\mu$ -Slide Chemotaxis <sup>3D</sup>
Chemotaxis chambers on slide	3	3
Volume per chamber	80 $\mu$ l	120 $\mu$ l
Observation area	2x1 mm <sup>2</sup>	2x1 mm <sup>2</sup>
Total height with plugs	12 mm	12 mm
Volume chemoattractant	18 $\mu$ l	60 $\mu$ l
Bottom matches coverslip	No. 1.5	No.1.5

Catalog Numbers	$\mu$ -Slide Chemotaxis	$\mu$ -Slide Chemotaxis <sup>3D</sup>
ibiTreat, tissue culture treated	10 pcs. 80306	80326
Coated (Collagen IV)*	10 pcs. 80302	80322
Hydrophobic, uncoated	10 pcs. 80301	–

\* Surface coating of observation area. Does not contain a gel matrix.

**FREE SAMPLES:** [www.ibidi.com/freesamples](http://www.ibidi.com/freesamples)