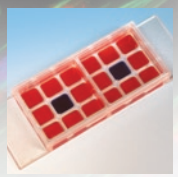
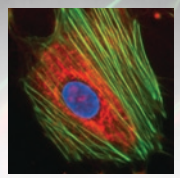
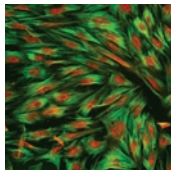
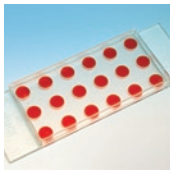
cells in focus

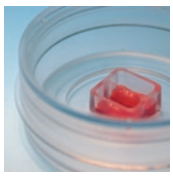
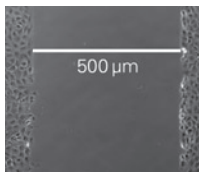

Cell microscopy

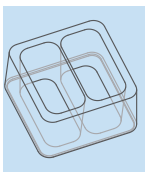
- perfect cell growth
- high imaging quality

Immunofluorescence

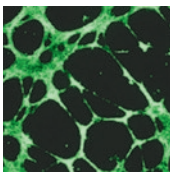
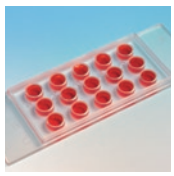
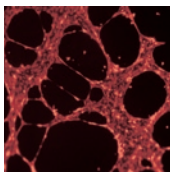
- small volume of 25 µl
- parallel screening assays



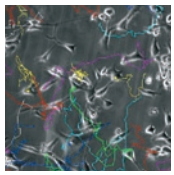
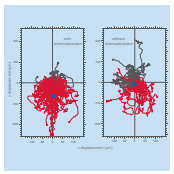
Wound healing assays

- defined separated areas
- highly reproducible

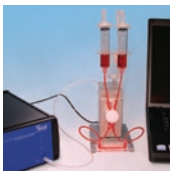
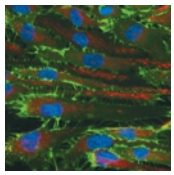
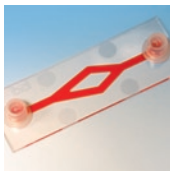
Angiogenesis assays

- sprouting & tube formation assays
- 3D gel matrix

Chemotaxis assays

- stable linear gradients
- cell tracking over 48 hours
- video microscopy

Flow assays

- defined flow rates
- rolling and adhesion

ibidi GmbH
Am Klopferspitz 19
D-82152 Martinsried
Germany

Tel.: +49 89 / 520 46 17-0
Fax: +49 89 / 520 46 17-59
E-Mail: info@ibidi.com

For more information on our products and to download our full catalog please visit
www.ibidi.com

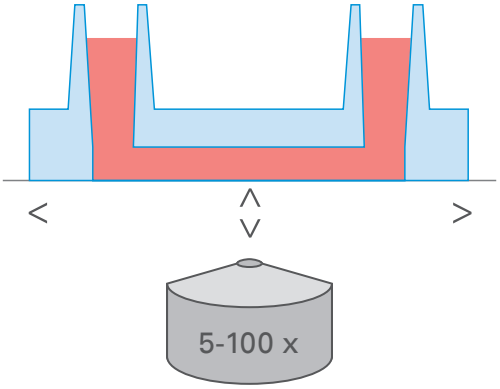
2009/03

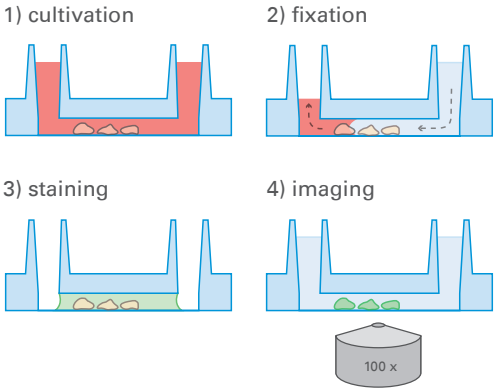
5 Good Reasons to Use ibidi µ-Slides

1 Optical Grade Bottom for Inverted Microscopes

thickness of a standard cover slip (180 µm, No. 1.5)

dimensions of all ibidi µ-Slides correspond to standard microscopy slides (75.5 x 25.5 mm)





2 "all-in-one" Carrier

in situ cell experiments without cell transfer

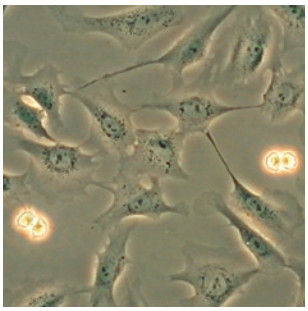
perfect immunofluorescence staining carrier

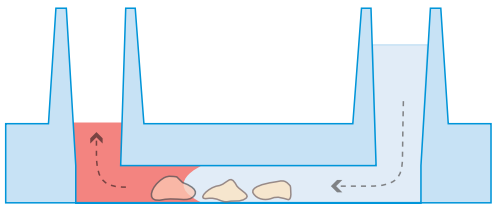
3 Tissue Culture Treated (ibiTreat)

for most cell types no further coating necessary

superb cell growth on the tissue culture treated surface

individual coatings possible



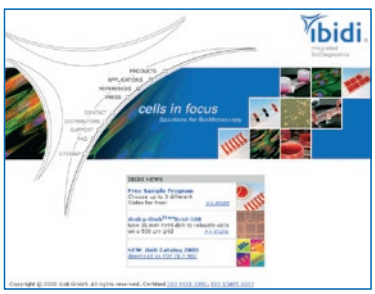


4 Resistant to all Fixation Methods

material resistant to methanol, acetone, para-formaldehyde, and acids

5 Free Sample Program

make your own experience with a free trial of our µ-Slides and µ-Dishes via our website: **www.ibidi.com**



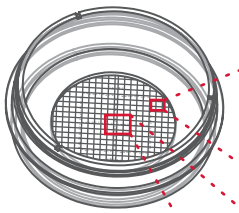
Cell Culture & Microscopy

Live cell imaging and video microscopy

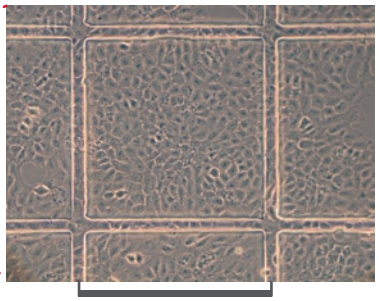
µ-Dish 35mm, low	µ-Slide 8 well	µ-Slide VI
ibiTreat, tissue culture treated, sterile 80136	ibiTreat, tissue culture treated, sterile 80826	ibiTreat, tissue culture treated, sterile 80606

µ-Dish 35mm, high

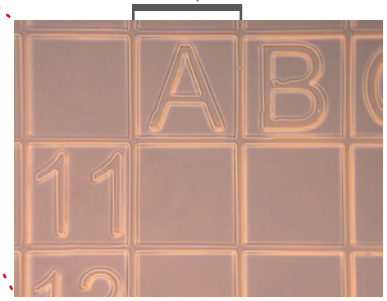
- perfect cell growth – ibiTreat
- perfect cell imaging with fluorescence and phase contrast
- various geometries available
- no glue – cell compatible
- tight closed lid – minimized evaporation effects

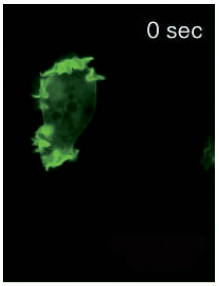


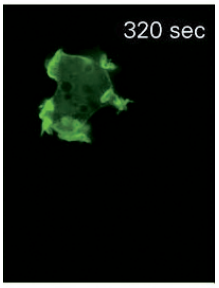
µ-Dish 35mm, high
mit Grid-500

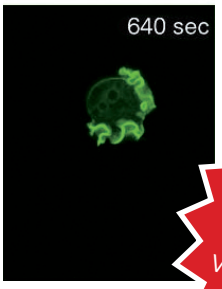


µ-Dish 35mm, high
mit Culture Insert



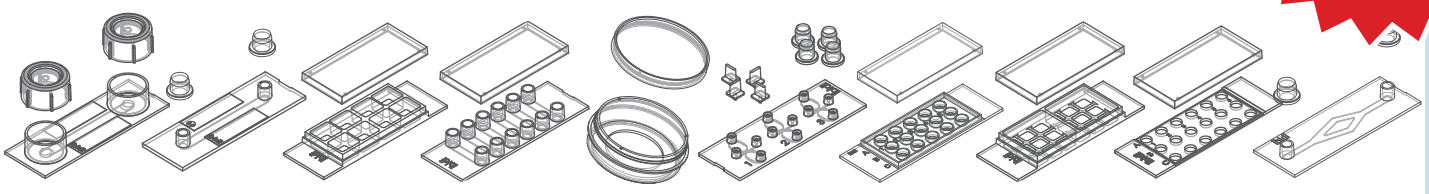






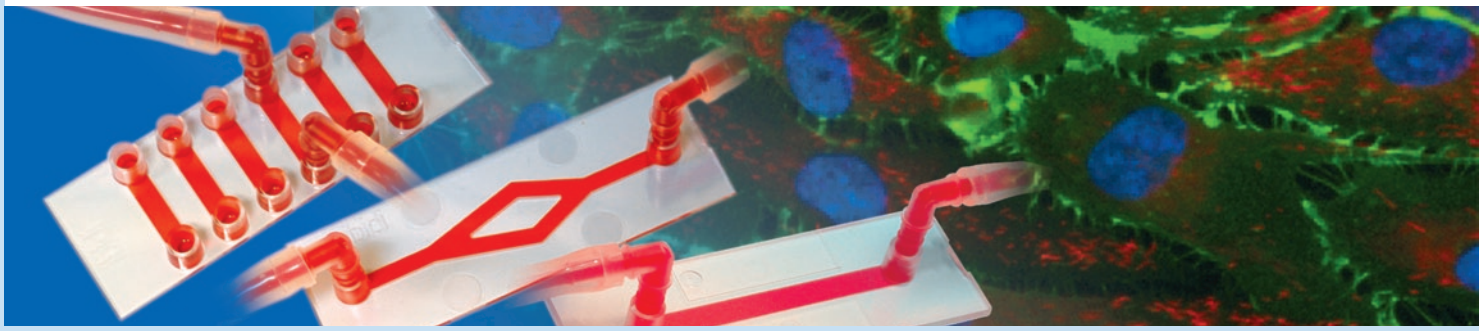
Feature:

The µ-Dishes are available with a grid which allows easy relocation of the cells at a later stage of the experiment. It can be used for cell counting, clone picking, or to reference a cell motion.



Cell Based Perfusion Assays

Ready to use solutions for cells under flow conditions



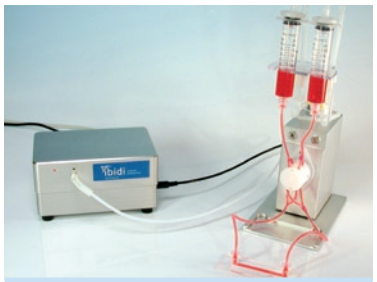
µ-Slide VI flow kit
ibiTreat, tissue culture treated, sterile 80646

µ-Slide y-shaped flow kit
ibiTreat, tissue culture treated, sterile 80146

µ-Slide I Luer flow kit
ibiTreat, tissue culture treated, sterile

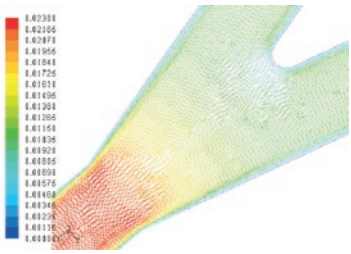
0.2	0.4	0.6	0.8
80066	80076	80086	80096

Different perfusion pumps and syringe pumps available



ibidi pump system
complete ibidi pump system 10902

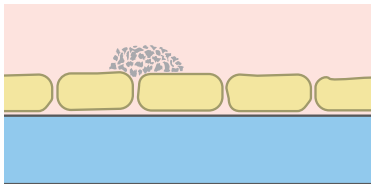
KD Scientific Syringe Pump
KDS 100 10940



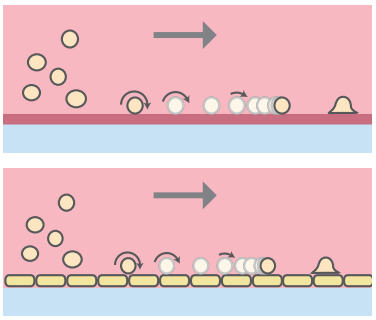
All shear rates / shear stress calculations can be found at www.ibidi.com

Assays

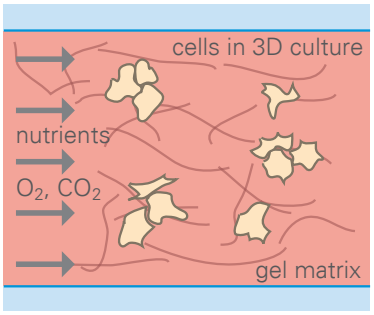
plug formation

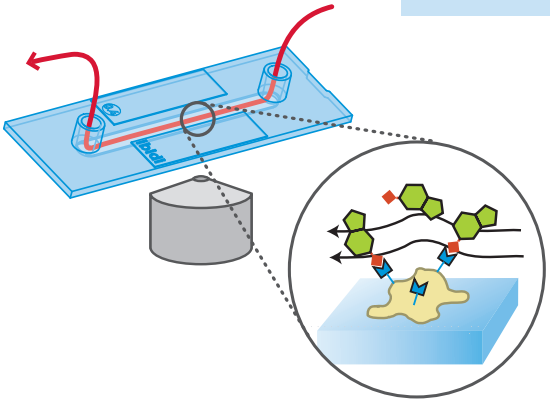


rolling and adhesion



3D cell culture

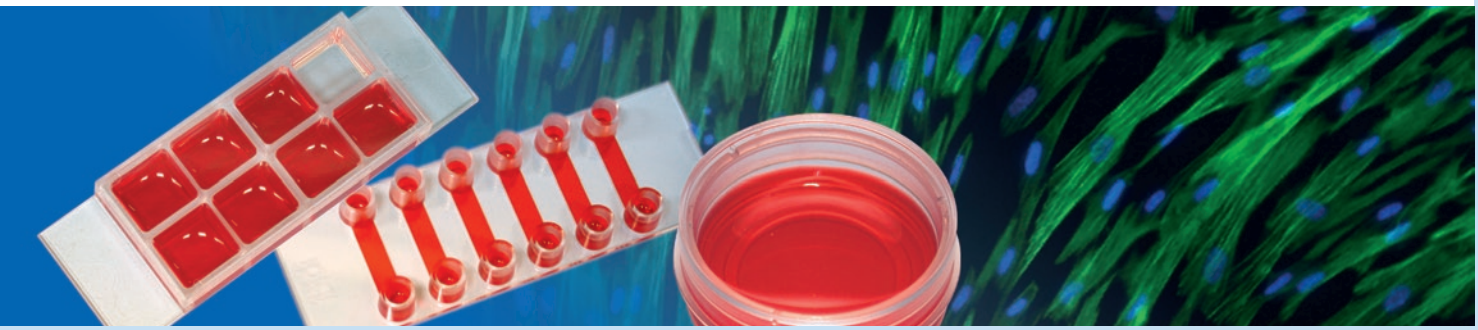




- adhesion and migration (metastasis of tumor cells)
- cell culture under flow
- rolling and adhesion of bacteria
- arteriosclerosis
- calcium imaging

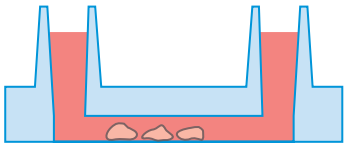
Immunofluorescence Staining

Cultivation - Fixation - Staining - Imaging

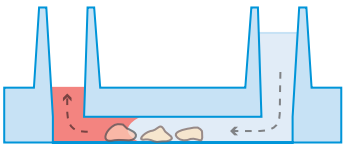


µ-Slide 8 well	µ-Slide VI	µ-Dish 35mm, high
ibiTreat, tissue culture treated, sterile 80826	ibiTreat, tissue culture treated, sterile 80606	ibiTreat, tissue culture treated, sterile 81156

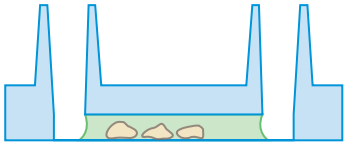
1) cultivation



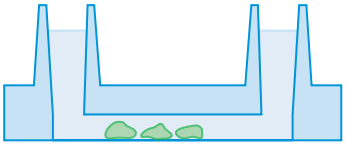
2) fixation



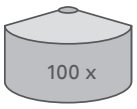
3) staining



4) imaging



µ-Slide "all-in-one" carrier



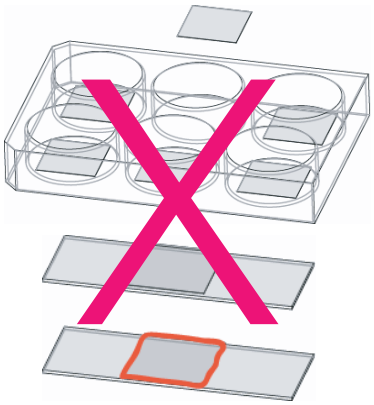
Feature:

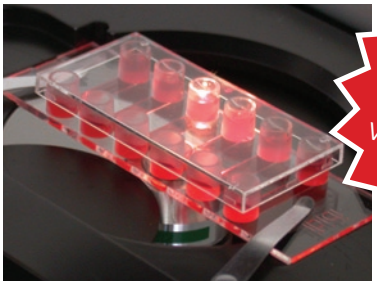
µ-Slides reduce the required amount of staining solutions drastically. The channels have a volume of only 25 µl. The Slides are fully resistant to methanol, acetone, paraformaldehyde, and acids.

Mounting cells on cover slips

1. ~~sterilize cover slips and slides~~*
2. ~~coat the cover slips~~*
3. ~~put sterile cover slips into 6-well plate~~*
4. seed cells ~~in large volume~~*
5. ~~peel the cover slip out~~*
6. wash
7. fix cells
8. wash
9. stain cells
10. wash
11. mount cells with mounting medium
12. ~~mount cover slip with nail polish~~*

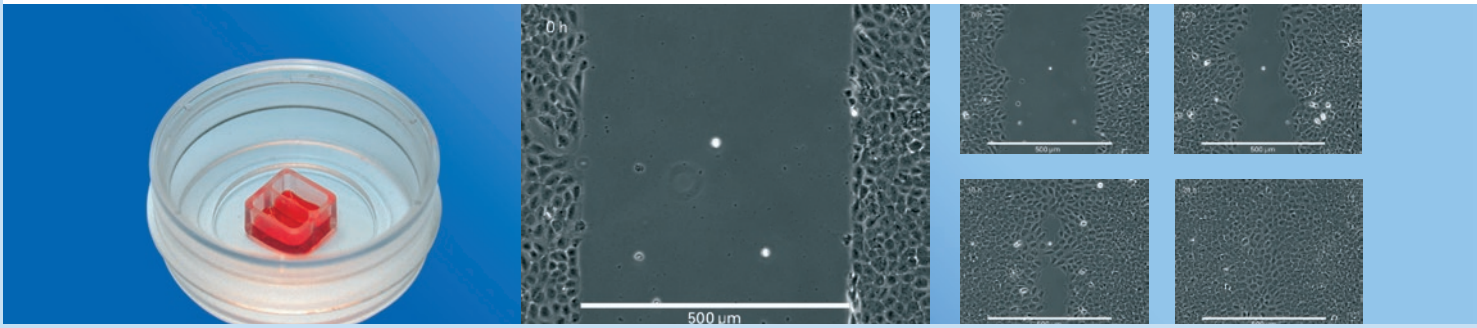
* These steps are not necessary any longer with ibidi µ-Slides



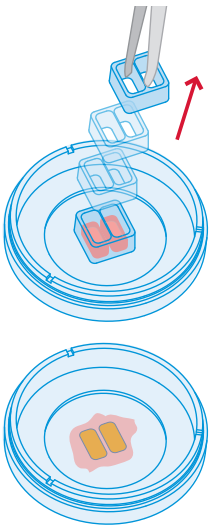


Wound Healing & Invasion

Insert for wound healing & invasion assays to culture small cell numbers



µ-Dish^{35mm,high} with Culture-Insert
ibiTreat, tissue culture treated, sterile 81176

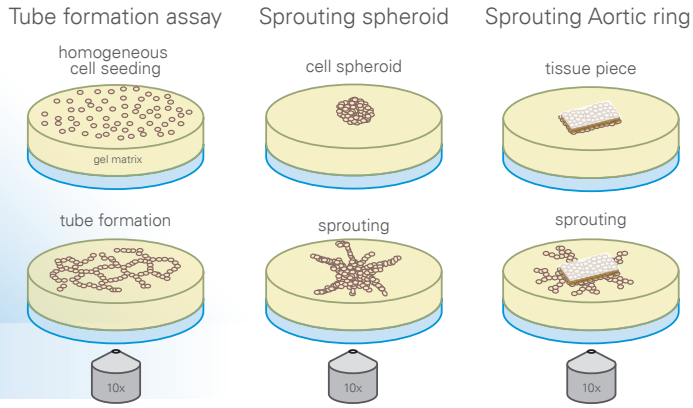


- wound healing assays
- invasion assays
- migration assays
- co-cultivation
- defined cell seeding

ibidi Culture-Inserts	Scratch Assays
Cell seeding into designated areas	Scratching with a needle or tip
Defined cell-free gap	Varying cell-free gap
Defined non-coated surface	Possible extra-cellular matrix remains
No cell damage	Cell damage
Internal reference	No internal reference

Angiogenesis

µ-Slide Angiogenesis
ibiTreat, tissue culture treated, sterile 81506



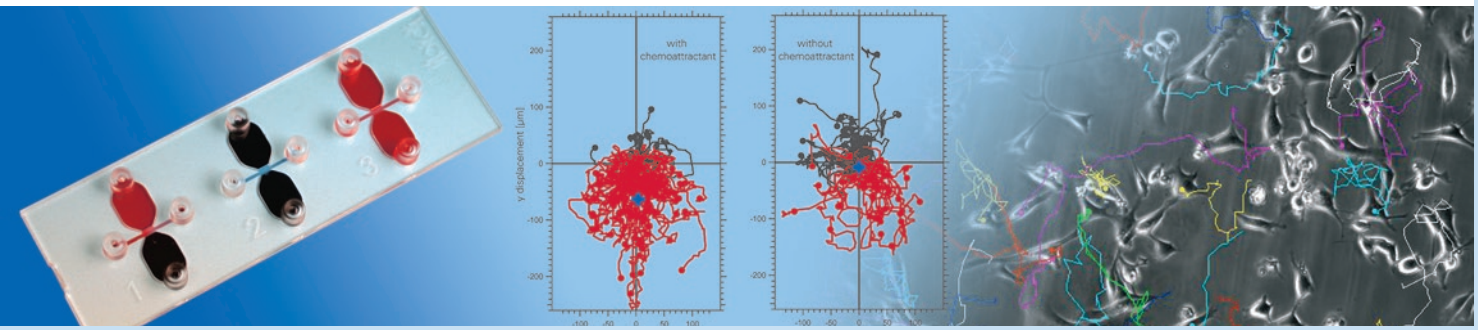
in vitro Angiogenesis Assays

- flat gel surface ⇨ all cells in focus
- homogeneous 0.8 mm thick gel layer
- 4 mm well in 5 mm well
- use only 10 µl of gel per well+
- low evaporation
- compatible with multi channel pipettes

+The gel matrix is not part of the product.

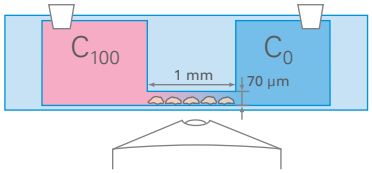
Chemotaxis

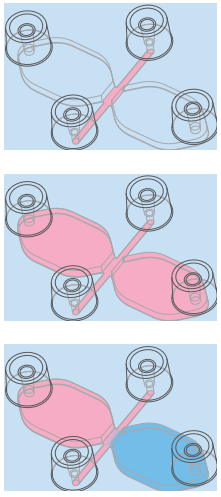
Slide for stable gradient and migration assays of adherent mammalian cells



µ-Slide Chemotaxis
ibiTreat, tissue culture treated, sterile 80306

- long term chemotaxis experiments with adherent cells
- ready to use system, no assembling
- linear gradients ⇨ stable for over 48 hours
- 3 chambers on one slide for parallel working
- made for high-end video microscopy





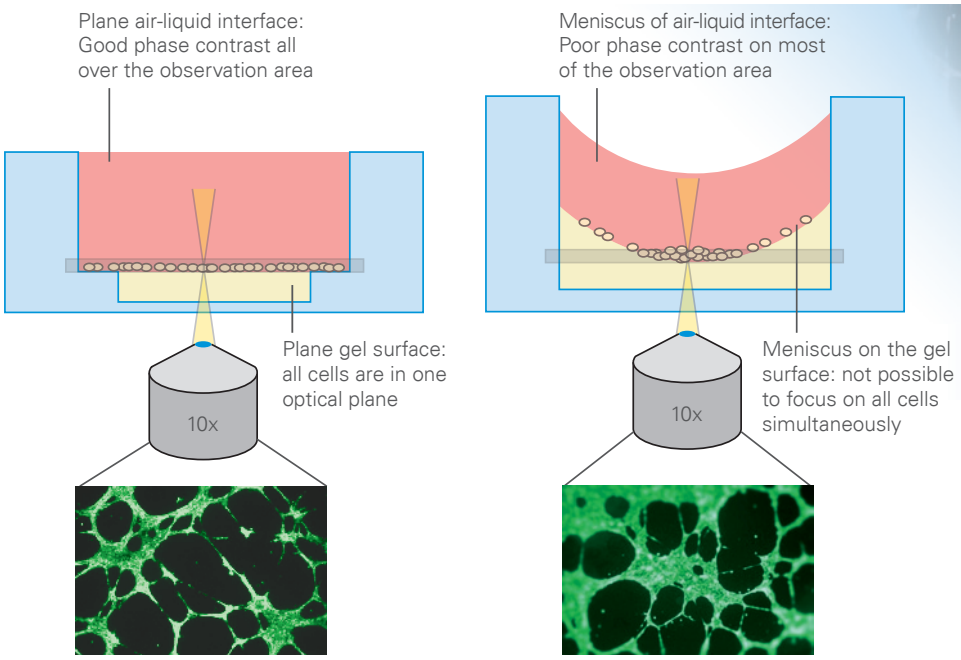
principle:

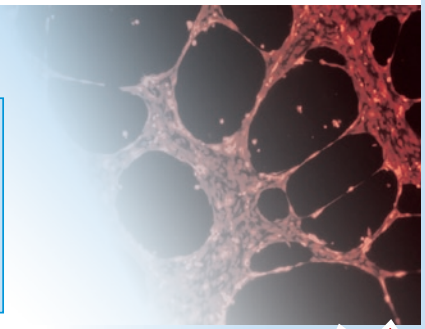
1) Seed the cells in the cross channel

2) Fill both reservoirs with cell free medium

3) Fill one of the reservoirs with chemokine

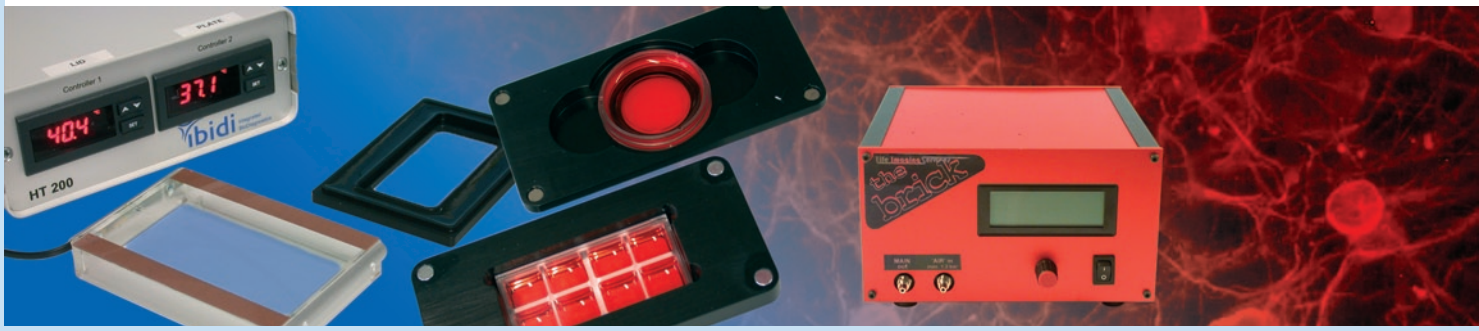
µ-Slide Angiogenesis vs. Standard Well





Universal heating system for all microscope platforms

ibidi heating stages

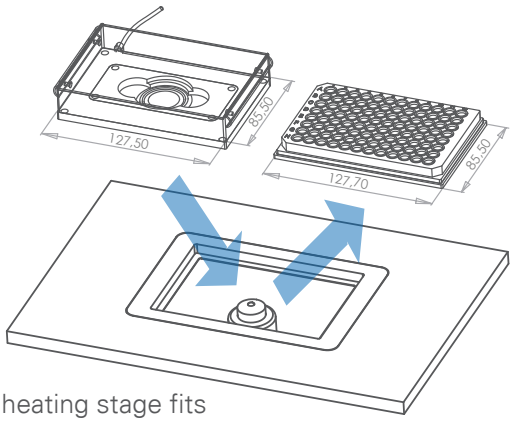


ibidi heating stage
96 well plate heating frame with lid 10918

inserts for µ-Slides & µ-Dishes
µ-Slide 8 well 10931

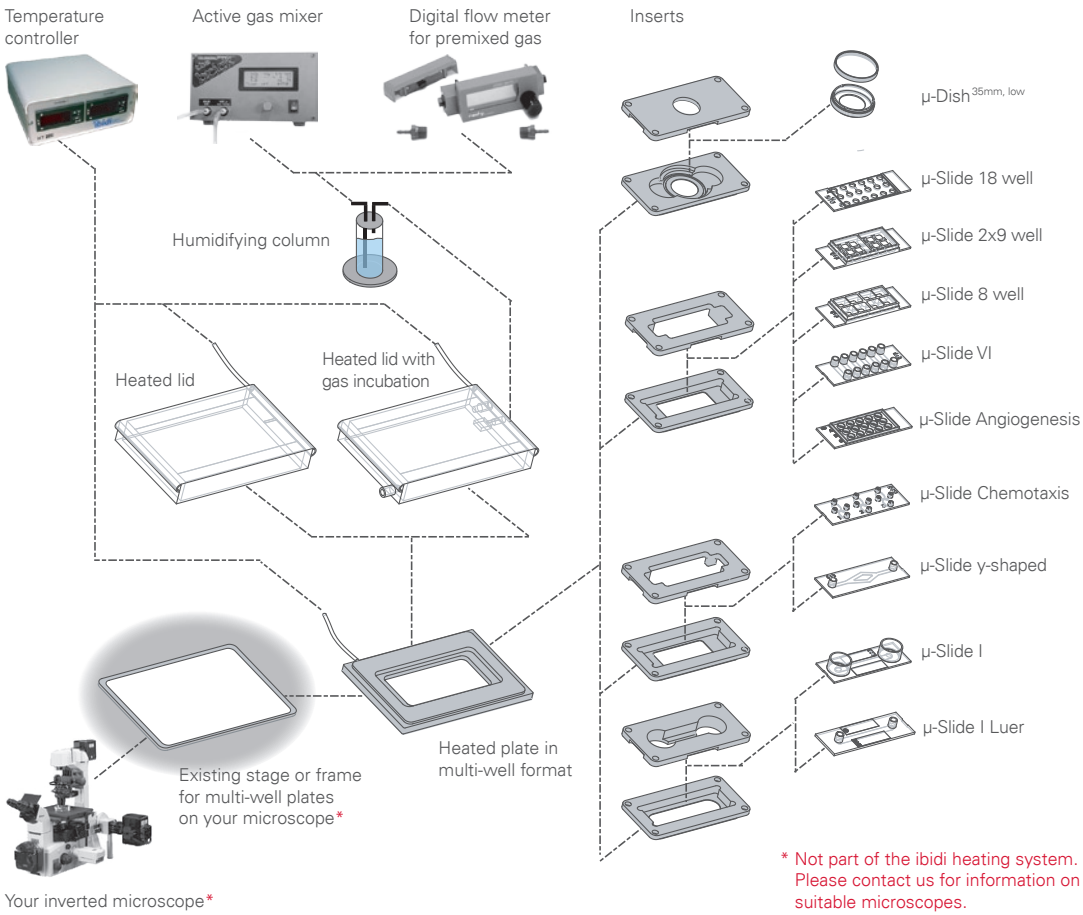
incubator for microscope 10920

- very cost efficient
- plug and play system
- micro enviroment via heated plate and heated transparent top container
- heated transparent box



heating stage fits
into multi-well holder

System Overview
96 Well Format Heating System



* Not part of the ibidi heating system. Please contact us for information on suitable microscopes.