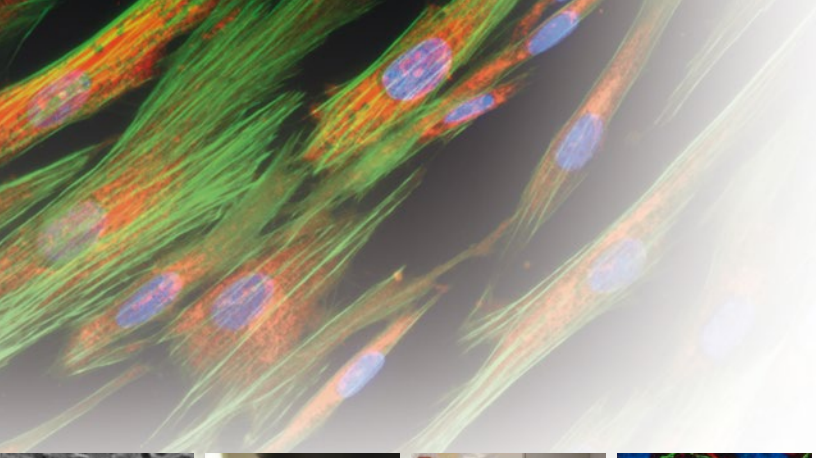
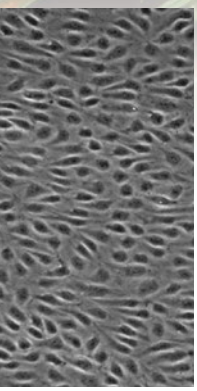
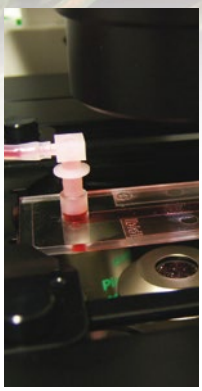
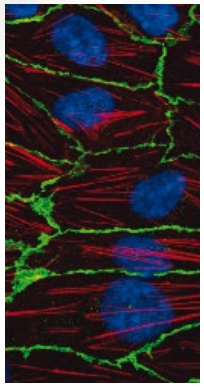


ibidi®
cells in focus



2 day Laboratory Course at ibidi Munich/Germany

Cell Cultivation under Perfusion and Live Cell Imaging

Topics:

Several adherent cell types are exposed to shear stress conditions *in vivo*, e.g., endothelial cells in a blood vessel. Culturing cells *in vitro* under perfusion conditions simulates this mechanical stimulus and induces a more physiological behavior. The objective of the course is to give scientists a profound background in cell culture biology and physical basics of perfusion-based assays. In the practical part, endothelial cells are cultured under physiological flow conditions. The hands-on sessions give time to practice the handling of ibidi channel slides and the ibidi Pump System.

Target Group:

The course is intended for scientists and technical associates with a profound experience in cell culture and sterile working techniques who want to establish perfusion-based assays in their lab.

Schedule Day 1

Start at 10 am

- Welcome and introduction
- Talk 1: **Physical basics 1 (Shear stress, viscosity, flow rates)**
- Talk 2: **Shear stress calculations and handling tips**

Lunch

- Hands-on Part 1: **Handling of channel slides**
- Talk 3: **Physical basics 2 (Flow profile, ibidi Pump System)**
- Hands-on Part 2: **Exposing cells to flow**

Summary day 1 (around 5 pm)

Schedule Day 2

Start at 9 am

- Hands-on Part 3: **Microscopy of flow-conditioned cells**
- Talk 4: **Flow setups, example publications, and ibidi results**

Lunch

- Hands-on Part 4: **Setup of ibidi Pump System, flow calibration**
- Discussion and conclusion

End of training at around 4 pm

Participation is free of charge.
The number of participants is limited to 8. For registrations and further questions please contact us at: ***info@ibidi.de****.*

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