SEMINAR:

NEW TOOLS TO STUDY CELL MIGRATION WITH LIVE CELL MICROSCOPY

ABSTRACT

Cell migration plays an important role in many physiological and pathological processes such as tissue generation and repair as well as cancer metastasis. While there are several established methods to study cell migration, chemotaxis and co-culture in vitro, investigating these processes under physiological conditions with live cell imaging still remains a challenge.

We developed several specialized chambers with confined geometries and materials that allow the investigation of migrating cells and even slowly migrating chemotactic cells towards a chemical stimulant with live cell microscopy. Further, we developed a slide that allows co-culturing and transmigration of cells in combination with perfusion assays, thereby providing an ideal in vitro model for e.g. skin and lung studies at the air-liquid interface.

In this seminar, we present integrated methods as well as scientific applications and results for wound healing, chemotaxis , co-culture and transmigration in combination with live-cell timelapse microscopy.

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Tina Freisinger studied Biology in Munich and Edinburgh. She pursued a PhD with a focus on cell biology and imaging at the Max Planck Institute of Biochemistry in Munich. After receiving her PhD in 2012, Tina stayed on in the same lab as a postdoc, and worked on a drug discovery project in collaboration with Novartis. After a 6-month marketing and sales internship at AMGEN, Tina joined ibidi as a global application specialist in October 2013.

DETAILS

17th March 2016, Thursday

2.00 pm – 3.00 pm

Biopolis, Neuros Building
IMB, Level 6, Room 6.49/6.50

ENQUIRY

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