





Life Science Innovation

Trends in Single Cell Analysis #8

Single Cell Technologies and their Fields of Application (Tumor Cells)



Wednesday, March 6th 2024 4 p.m.-6 p.m.

Hybrid Meeting

Conference Center of the Life Science Center, Merowingerplatz 1

March 5th:



Supported by:











Life Science Innovation

Trends in Single Cell Analysis #8

With 'Trends in Single Cell Analysis #8' we will continue our event format 'Life Science Innovation', which provides insights into innovative research topics and current developments in Duesseldorf, NRW and beyond.

This time, we want to go into a single cell and learn how we can investigate its intracellular contents. To this aim we have invited **Prof. Cornelia Monzel** from the Department of Experimental Physics at the Heinrich-Heine University Duesseldorf. She will present an overview on how to use magnetogenetics to manipulate signalling pathways in single cells.

Then, **Dr. Orane Guillaume-Gentil** from the École Polytechnique Fédérale de Lausanne will show Fluidic Force Microscopy (FluidFM) use in live-cell biology, followed by **Dr. Tamás Gerecsei** who will present how Cytosurge's FluidFM adaptation enables further single-cell experiments.

Programme

Welcoming speech: Dr. Thomas Heck, Life Science Center Duesseldorf Prof. Dr. Hans Neubauer, PhD, University Hospital Duesseldorf

Academia

Moderation: Prof. Dr. Hans Neubauer, PhD, University Hospital Duesseldorf

 Probing and Manipulating Signalling Pathways in Single Cells with Magnetogenetics

Cornelia Monzel, PhD, Experimental Medical Physics, Heinrich-Heine University Duesseldorf, Duesseldorf, Germany

Moderation: Prof. Dr. Nikolas Stoecklein, MD, University Hospital Duesseldorf

FluidFM in Live Cell Biology:
From Biomechanics to Single-Cell Omic Profiling
Orane Guillaume-Gentil, PhD, Laboratory of Systems Biology and Genetics,
École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland

Companies

Moderation: Dr. Dieter Niederacher, PhD, University Hospital Duesseldorf

 The FluidFM Omnium Platform and how it enables Single Cell Manipulations

Tamás Gerecsei, PhD, Application Scientist, CYTOSURGE AG, Glattbrugg, Switzerland

Organizer: LifeScienceNet Duesseldorf and the Liquid Biopsy Center Duesseldorf (LBCD) of the University Hospital Duesseldorf | c/o Life Science Center Duesseldorf | Merowingerplatz 1 a | 40225 Duesseldorf | www.lifescience-dus.de

Registration online until March 5th 2024: lifescience-dus.de/registration-life-science-innovation