LifeScienceNet DÜSSELDORF

THE BUSINESS LAB LIFE SCIENCE CENTER DÜSSELDORF

Liquid Biopsy Center Düsseldorf

UKD Universitätsklinikum Düsseldorf

Life Science Innovation

Trends in Single Cell Analysis #9

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

Registration online until July 16th:

Wednesday, July 17th 2024
4 p.m.–6 p.m.

Hybrid Meeting

Conference Center
of the Life Science Center,
Merowingerplatz 1

Supported by:

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Registration on:
https://lifescience-dus.de/registration-life-science-innovation

Life Science Innovation

Trends in Single Cell Analysis #9

With 'Trends in Single Cell Analysis #9' we will continue our event format 'Life Science Innovation', which provides insights into innovative research topics and current developments in Duesseldorf, NRW and beyond.

We are thrilled to welcome experts from various fields to discuss cutting-edge advancements in liquid biopsy with a focus on circulating tumor cells (CTCs). **Avanish Mishra from Harvard Medical School** will present their new microfluidic technologies to isolate and molecularly profile CTCs from whole Diagnostic leukapheresis products generated from several litres of blood and will discuss the clinical implications of this advancement.

Amin El-Heliebi from the Medical University Graz will share invaluable insights into his work on liquid biopsies, focusing on their technologies to evaluate CTCs and circulating tumor DNA (ctDNA) in advanced prostate cancer. His research aims to unravel the complexities of metastatic disease by tracing liquid biopsies back to their originating tumor mass, offering unprecedented opportunities for early detection and intervention.

Lastly, **Jurij Kintz from Sartorius** will introduce the innovative CellCelector Flex system, designed to detect and micromanipulate single CTCs with unparalleled precision.

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

- **Comprehensive tumor cell-based liquid biopsy using high-throughput microfluidic enrichment of DLA products**
  Avanish Mishra, Instructor, Center for Engineering in Medicine & Surgery, Krantz Family Center for Cancer Research, Harvard Medical School and MGH, Boston, USA

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

- **Multi-analyte liquid biopsy monitoring of drug resistance in metastatic prostate cancer**
  Amin El-Heliebi, PhD; Medical University Graz, Gottfried Schatz Research Center, Division of Cell Biology, Histology & Embryology, Graz, Austria

› Companies

Moderation: Dr. André Franken, PhD, University Hospital Duesseldorf

- **Automated isolation of rare cells – detection and transfer of CTCs using the CellCelector Flex**
  Jurij Kintz, M.Sc. in Biochemistry, Field Application Specialist for the CellCelector Flex, Sartorius AG, Göttingen, Germany

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

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