

Liquid biopsy-based biomarker analysis in basic research and clinical applications

Date: 4 Feb 2025, 9:00-17:00

Venue: Arvid Carlsson lecture hall, Academicum, Medicinaregatan 3

Program

9:00 Welcome and introduction: WCMTM, RISE, SciLifeLab

9:15-10:45 Session I

- Johan Botling, Liquid biopsy analysis using GMS560
- Mikael Kubista, RNA fragmentomics
- Cristina Maglio, Circulating biomarkers of interstitial lung disease in systemic sclerosis
- Erik Larsson Lekholm, UV-hypersensitive genomic sites as potential liquid biopsy biomarkers
- Rossella Crescitelli, Extracellular Vesicles: From Cancer Biomarkers to Immune-Based Therapies

10:45-11:15 Coffee break

11:15-12:45 Session II

- Martin Dalin, Personalized ctDNA analysis for sensitive disease monitoring in children with cancer
- Jens Böhmer, Droplet digital PCR for the quantification of donor-derived cell-free DNA after heart transplantation
- Maria Ekholm, Integration of blood-based biomarker monitoring in the management of metastatic breast cancer
- Ka-Wei Tang, Epstein-Barrvirus induce a pro-proliferative positive feedback loop by STAT-regulation
- Louise Nilsson, Biobank Väst and services for tomorrow's medical marvels in the cell free field.

12:45-13:45 Lunch

13:45-15:15 Session III

- Anders Ståhlberg, Next generation liquid biopsy-based diagnostics: High-throughput and immune repertoire profiling using SiMSen-Seq
- Karin Sundfeldt, Early detection and prevention of gynecologic cancer
- Johannes Hedman, Ultrasensitive sequencing in forensic DNA analysis
- Anna Rohlin, Treatment monitoring using ctDNA in lung cancer
- Ander Bay Nord, Metabolites, lipoprotein profiling and quality assessment from the same plasma/serum NMR sample: alternative to some clinical chemistry assays?

15:15-15:45 Coffee break

15:45-17:00 Session IV

- Johan Zelano, Plasma protein markers in epilepsy
- Stefan Filges, Simsen® Personal – Flexible solutions for ultrasensitive ctDNA detection in research and clinical trials
- Yvonne Wettergren, Identification of plasma proteins linked to the occurrence and development of colon cancer
- Catarina Mörck, NGS research service, from sample to data

17:00 End of day

This effort and seminar day is supported by RISE, SciLifeLab Gothenburg, Västra Götalandsregionen and Wallenberg Centre for Molecular and Translational Medicine at University of Gothenburg.



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