

SEMINARS

Approaches to Personalised Medicine at Health

From September to December 2022

September 19th 2022 at 14.00 – 15.30

Eduard Biermann (1252-204), The Lakeside Theatres, Aarhus University, Bartholins Allé 3, 8000 Aarhus C

Jørgen Kjems, Department of Molecular Biology and Genetics.

Title: RNA's many faces – in diagnostics and taylor-made medicine

The molecular composition of blood is a signature of human health, life style and disease. However, establishing robust disease markers from human cohorts is challenging due to the underlying diversity of individuals. We have developed a method termed APTASHAPE that harnesses the power of DNA sequencing to profile the protein content in any biofluid (blood, CSF, urine) through highly parallelized readout of millions of nanosensors made from RNA. We have successfully applied the method to diagnose cancers, mental diseases, metabolic disease and for prediction the severity of SARS-CoV-2 infections from only a few microliters of blood or spinal fluid.

In another line of research we make personalized nanomedicine where self-assembled multitopic delivery drug conjugates are specifically directed to specific receptors in cancer and atherosclerosis plaques for the purpose of bioimaging and delivery of RNA therapeutics.

Britt Elmedal Laursen, Department of Biomedicine, Department of Clinical Medicine

Title: Precision Medicine in Treatment Choice for Patients with Treatment Refractory cancer

Comprehensive genomic screening is increasingly used in clinical practice for treatment decisions to patient with metastatic cancer. OPRA is a genomic screening platform used to identify and allocate patients for experimental treatment. The platform including technical and infrastructural aspects will be presented.

Coffee and cake will be served after the seminar

Sign up here: <https://events.au.dk/personalisedmedicineseminar6>

Upcoming seminar – save the date!

October 27th 2022 at 14.00-15.30

Mikkel Heide Schierup, Bioinformatics Research Centre (BIRC)

Jacob Skou Pedersen, Department of Clinical Medicine (MOMA) and Bioinformatics Research Centre (BIRC)