

ESAC

2021

Executive Seminars in Analytical Chemistry

Wednesday, September 1st, 2021 - Scandic Copenhagen

2021 KEYNOTES



Thomas Moritz

NovoNordisk
Foundation, Center
for Basic Metabolic
Research

How to develop and run a metabolomics research lab through the pandemic

Prof. Thomas Moritz, NovoNordisk Foundation, Center for Basic Metabolic Research

Understanding basic metabolism is necessary for understanding how metabolic diseases are developed, and thereby being able to develop effective diagnostics and treatments.

Moritz group uses metabolomics approaches to understand the role of the metabolome in controlling different aspects of metabolism in humans. We are studying the metabolome and fluxomes in different cell types as well as performing large scale analysis on human plasma cohorts. An important part of the research is to develop methodology for analyzing the metabolome. The method development covers strategies for sample preparation, mass spectrometry analysis and data processing. Professor Thomas Moritz explains: "Continuously improving and developing methods is necessary but it must be the biological questions that determine what is needed".



**Lars Damgaard
Løjkner**

Danish Crown

From Pig to PPM in an Hour

Lars Damgaard Løjkner, Manager, Laboratory Ringsted, Danish Crown

A guided tour of the development and deployment of fully automated inline biopsy sampling, automated sample handling, preparation and analysis on Danish Crown Abattoir.

The tour will include the classic difficulties of material variation, the lessons learned, final solutions, blood, sweat and tears. And robots.