KEYNOTE SPEAKER

Thomas Moritz

NovoNordisk Foundation, Center for Basic Metabolic Research

How to 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 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”.

ESAC 2021

Executive Seminars in Analytical Chemistry

Wednesday, September 1st, 2021 - Scandic Copenhagen

AmCham Denmark’s Analytical Instruments Committee is pleased to announce the 20th annual Executive Seminars in Analytical Chemistry: ESAC 2021

ESAC brings together manufacturers, leading scientific researchers, progressive vendors and cutting-edge technology within the field of analytical instruments.

Experiences, methods, results and the latest developments will be presented within four core areas: Life Science / Biotech, Pharmaceutical, Food / Environmental and Clinical / Forensic applications.

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Event Coordinator:
AmCham Denmark
Dag Hammarskjölds Allé 13
2100 Copenhagen

09:00 - 09:30	**Registration & Coffee**
09:35 - 09:45	**Introduction & Welcome by Stephen Brugger, AmCham Denmark**
09:45 - 10:20	**How to develop and run a metabolomics research lab through the pandemic, Prof. Thomas Moritz, NovoNordisk Foundation, Center for Basic Metabolic Research**

	Life Science/Biotech			**Pharmaceutical**			**Food/Environmental**			**Clinical/Forensic**		
	Title	**Presented by**	**Technique**	**Title**	**Presented by**	**Technique**	**Title**	**Presented by**	**Technique**	**Title**	**Presented by**	**Technique**
10:30 - 11:00	Influenza vaccine viral protein profiling for viral potency.	Jim Thorn, SCIEX Pharma & Biopharma EMEA.	CE	Mitigation of analyte loss on metal surfaces in liquid chromatography.	Rune Buhl Frederiksen, Waters	UHPLC	Targeted and non-targeted screening and quantification of contaminants of emerging concern in environmental and food samples using UHPLC, trapped ion mobility and high resolution accurate mass MS and MS/MS.	Dr. Cristian De Gobba, Field Application Specialist, Bruker Nordic	LC-MS-MS	Reveal greater details utilizing UHPLC combined with trapped ion mobility, high resolution accurate mass MS and MS/MS for large scale metabolomics.	Anna Abrahamsson, Analytical Chemist, Clinical Metabolomics, Statens Serum Institut	LC-MS-MS

11:00 - 11:30	**Coffee Break**

11:30 - 12:00	Towards fully automated and iterative multi-omics workflows.	Douglas McCloskey, PhD Group Leader, AutoFlowDTU Biosustain	Automation	A new dimension for HCP Analysis - Sensitivity Boost with PASEF and VIP-HESI	Dr. Christian Albers, Regional Business Development Manager Pharma, Bruker Daltonics	LC-MS	Searching the structure of low-abundance unknown dietary metabolites in human samples.	Professor Lars Ove Dragsted, Nutrition, Exercise and Sports, University of Copenhagen	LC-MS-MS	Terapeutic Drug Monitoring: Challenges and Pitfalls	Eva Greibe, Biochemist, Associate Professor, AUH, Dept. Clinical Biochemistry.	LC-MS-MS
12:05 - 12:35	Statistical Evaluation of Metabolomic Changes in Lungs of Tuberculosis-Infected Mice, using Gas Chromatography HR Accurate Mass MS/MS and Low Energy EI functionality.	GC-Low Energy EI-HRAM-MS/MS	Mads Lundgren Petersen, GCMS Product Specialist	Considerations for Lab Scale Purification of Oligonucleotides	Hans Christian Høiberg, Ph.D.,LC Product Specialist, Agilent	HPLC	Precise testing of pesticides in food using the SCIEX Triple Quad™ 7500 LC-MS/MS System	Michael Zellmann, Applications Support Specialist, AB Sciex	LC-MS-MS	Rapid and Sensitive Detection of SARS-CoV-2 Infection using Quantitative Peptide Enrichement LC-MS/MS Analysis	Application Chemist, Sigurd Hermansson, Waters	LC-MS-MS

12:35 - 13:45	**Lunch Break**

	Life Science/Biotech			**Pharmaceutical**			**Food/Environmental**			**Clinical/Forensic**		
	Title	**Presented by**	**Technique**	**Title**	**Presented by**	**Technique**	**Title**	**Presented by**	**Technique**	**Title**	**Presented by**	**Technique**
13:50 - 14:20	Spray them, spin them, break them: Protein Characterization in the era of Precision Medicine.	Professor Ole Nørregaard Jensen, PhD SDU, Dep. of Biochemistry & Molecular Biology	LC-MS-MS	New Developments from SCIEX - The Future LC-HRMS	Stephen Lock, SCIEX Pharma & Biopharma EMEA	LC-HRMS	Introducing the SELECT SERIES Multi Reflective Technology Q-Tof. The next generation of Q-Tof.	Application Chemist, Sigurd Hermansson Waters	LC-MS-MS	timsTOF SCP – the ultimate tool for quantitative single cell biology research.	Dr. Christian Albers, Regional Business Development Manager Pharma, Bruker Daltonics	LC-MS
14:25 - 14:55	Visualizing Microbial Interactions with Mass Spectrometry Imaging (MSI).	Dr. Aaron Andersen, Head of Metabolomics Core, DTU	MSI	New Developments in Capillary Electrophoresis for Biologics Analysis	Marcus Heinl, Senior Field Applications Specialist, AB Sciex	CE	Have you bridged your Gap? Technology update of a modern contract Lab to increase throughput and handle challenging environmental applications	Christian Hansen, Kemiker / Cand. Polyt., Højvang Laboratorier	GC	Reduce Analytical Interferences with Ultra Sensitive LC-MS/MS and MRM3.	Michael Zellmann, Applications Support Specialist, AB Sciex.	LC-MS-MS

15:00 - 15:30	**Coffee Break, Wrap up & Prize Drawing**