

KEYNOTE SPEAKER



Rasmus Bro
Professor, University of Copenhagen

How To Get Everything Out Of Your Data

Rasmus Bro, Professor, Food Analytics & Biotechnology, University of Copenhagen

Abstract

In this presentation, Rasmus Bro will go from very basic concepts of data science to very complex automated expert systems that can speed up and improve e.g. the analysis of untargeted chemical profiling using GC-MS. The main theme of the talk is to make it obvious that rather than ignoring the potential of data or buying into magic quick fixes, data science is like any other field. To really harvest the benefits, you must have strong competences.

About Rasmus Bro

Professor Rasmus Bro is working at the frontline of machine learning and artificial intelligence within analytical chemistry. More specifically, he is performing research on most aspects of chemometrics and in particular on multi-way analysis both from a theoretical and a practical point of view. He is heading an industrial research consortium, ODIN, focusing on Process Analytical Technology (PAT) and has also started a new master of science in the same area. He has been an editor of Journal of Chemometrics for many years and is the author of a number of matlab toolboxes.

Event Coordinator:

AmCham Denmark - Dag Hammarskjölds Allé 13 - 2100 Copenhagen Ø

ESAC 2022

Executive Seminars in Analytical Chemistry

Wednesday, April 27, 2022 - Scandic Copenhagen



AmCham Denmark's Analytical Instruments Committee is pleased to announce the 21st annual Executive Seminars in Analytical Chemistry: ESAC 2022

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.

ANALYTICAL INSTRUMENTS COMMITTEE COMPANIES



GUEST EXHIBITORS





09:00 - 09:30	Registration & Coffee											
09:35 - 09:45	Welcome remarks by Stephen Brugger, AmCham Denmark											
09:45 - 10:20	“How to Get Everything Out of Your Data”, Rasmus Bro, Professor, Food Analytics & Biotechnology - University of Copenhagen											

	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	Analysis of oligonucleotides by LC-MS	Angie Hongqian Yang , Application Chemist, Waters	LC-MS	MS-based workflows in biopharmaceutical development - Recent progress and case studies.	Dan Bach Kristensen , Principal Scientist, Symphogen	LC-MS	PFAS in biota from Greenland and Denmark.	Rossana Bossi , Seniorforsker Aarhus University	LC-MS-MS	Enhancing high-resolution mass spectrometry performance for NPS analysis with improved sensitivity and characterization	Dan Blake , SCIEX	LC-MS

11:00 - 11:30	Coffee Break											
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11:30 - 12:00	High-throughput fragment screening for preclinical drug discovery enabled by high resolution MS	Kirill Popov , Stella Timpka & Carl Diehl, Red Glead Discovery and Saromics Biostructures	MS	Cyclic ion mobility mass spectrometry for deep characterisation of bio-pharmaceutical relevant peptides.	Kim Haselmann , Novo Nordisk	LC-IMS-MS-MS	Non-targeted and suspected target identification and quantification of contaminants in surface water using LC-HRMS.	Mulatu Yohannes Nanusha , Aarhus University	LC-HRMS	Clinical biomarker discovery – Translational biomarkers in rheumatic diseases and neuroinflammation.	Prof. Allan Stensballe , Health Science & Technology, Ålborg University	LC-MS
12:05 - 12:35	High throughput analytics of small metabolites and targeted proteomics by LC-MS/TQ.	Christoph Crocoll , Special Consultant Copenhagen University	LC-MS-MS	Sequence verification and side product identification of synthetic RNA oligonucleotides by LC-ESI-PASEF and OligoQuest software.	Peter Abrahamsen , Pharma Business Manager, Bruker	LC-ESI-PASEF	Overcoming challenges in Analysis to meet regulatory detection limits for PFAS by UPLC-MS/MS.	Hannah Willmer , Senior Application Chemist Waters	UPLC-MS/MS	Direct quantitation of small molecules in dried spots using the fully automated transcend DSX-1 system	Magnus Ohlin , Thermo Fisher Scientific	TBD

12:35 - 13:45	Lunch Break											
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	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	The hunt for new signaling and antiviral nucleotides in bacterial defence systems: Getting into structure elucidation with Orbitrap MS and Compound Discoverer.	Daniel Malheiro , Scientist, MS-Omics	MS	Medical cannabis beyond THC – Terpenes and the minor cannabinoids.	Rime Bahij , Head of Research, QNTM Labs	UHPLC / GC	Implementation of high-resolution mass spectrometry for analyzing micropollutants in water: monitoring & development of treatment technology.	Pedro Carvalho , Scientist, Aarhus University, DMU	LC-MS/MS	Quantitation of free thyroid hormones, T3 & T4 by 2D UPLC-MS/MS analysis.	Marianne Lerbæk Bergmann , Vejle Sygehus	2D LC-MS-MS
14:25 - 14:55	Mass spectrometry imaging in plant science.	Prof. Nanna Bjarnholt , Plant and environmental sciences, Copenhagen University	MS	The latest innovations in Biologics characterization and quality control using LCMS and CE.	Stephen Lock , SCIEX	LC-MS	Pushing the limits of standard-free PFAS screening with trapped ion mobility and Kendrick mass analysis.	Dr. Cristian De Gobba , Field Application Scientist, Bruker	LC-IMS-MS-MS	GC-MS... not revolutionary but a robust and reliable technology.	Tina Ravn Pedersen , Retskemisk Department, Syddansk University	GC-MS

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