



Improving World Health with Metabolomic Research Solutions

Unlock the Potential of NMR and MS in Metabolomics

Learn more at our
Lunch Seminar
on June 23
at 12:20 pm

Speakers at Bruker's Lunch Seminar on June 23



PD Dr. Michael Witting
Deputy Head Metabolomics and Proteomics
Core & Executive Manager Metabolomics,
Helmholtz Munich, Munich, Germany

What's for Dinner? timsMetabo™-based metabolomics and lipidomics of omnivore and vegetarian human fecal reference material

NIST RM 8048 is a newly released human fecal reference material designed to accelerate reproducible metabolomics and lipidomics. Built from pooled samples of vegetarian and omnivorous donors, it offers a biologically relevant, highly complex matrix for stress-testing real-world workflows. In this lunch seminar, we showcase how complementary reversed-phase and HILIC separations, combined with the power of timsMetabo, unlock deep, comprehensive coverage across polar, semi-polar, and lipid species. The result is a foundational, high-quality benchmark for this landmark reference material, including curated reference spectra and CCS values generated on timsMetabo™ - providing the community with a robust starting point for harmonized, high-confidence metabolic profiling.



Prof Julien Wist
Professor of Computational Spectroscopy,
Universidad del Valle, Valle del Cauca,
Colombia

Phenomic medicine: application of NMR molecular data to enhance patient outcomes

Phenomic medicine requires accurate maps to estimate an individual's disease risk. Constructing such phenotypic risk maps necessitates the vertical integration of tens of thousands of molecular phenomes to capture a broad spectrum of medical conditions; this can be achieved by integrating multiple cross-sectional disease cohorts. The inherent robustness of NMR-based phenotypes enables the harmonization of data from diverse biobanks and epidemiological cohorts, even when measured at different facilities, into a single unified dataset. This scalability is evidenced by various contributions from the International Phenome Centre Network (IPCN). Furthermore, recent technological breakthroughs, including simplified sample collection, the transition to cost-effective platforms, and AI-enhanced data analytics, have made the clinical deployment of NMR-based phenotyping a realistic prospect.

Meet our experts at Booth P2 and discover what's possible.

For more information please visit www.bruker.com

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