

BeNeLux Metabolomics Days 2026

22+23 September 2026

Hof van Liere, University of Antwerp



Benelux Metabolomics Days 2026

Tuesday, 22 September 2026 (DAY 1)		
08:45 - 09:30	Arrivals + registration	
09:30 – 11:00 Session 1: Chairs TBA		
9:30-9:45	Welcome	Welcome & Introduction
9:45-10:15	Erin Baker, University of North Carolina at Chapel Hill, NC, USA	<i>When Nature Touches Us: Unraveling Environmental Signatures with Mass Spectrometry</i>
10:15-10:30	Laura Rosina Torres Ortega, Wageningen University & Research, NL	From defaults to principled networks: parameter tuning and bootstrap confidence for robust MS/MS molecular networking
10:30-10:45	Scientific sponsor talk	TBA
10:45-11:00	Maosen Zhao, University of Antwerp, BE	Nontarget Identification of Contaminants of Emerging Concern in Campus Indoor Dust Using Ion Mobility High-Resolution Mass Spectrometry
11:00-11:30	Coffee break	
11:30 – 12:45 Session 2: Exposomics & Environmental Health (Adrian Covaci, University of Antwerp, BE)		
11:30-12:00	Arthur David, French School of Public Health, FR	<i>Toward a Population Scale Map of the Human Chemical Exposome: Challenges, Strategies, and Opportunities</i>
12:00-12:15	Stelios Papazoglou, INRAE, FR	Optimized Ion Mobility CCS Approaches for PFAS Annotation in Fish Extracts: Implications for Food Safety and Exposomics
12:15-12:30	María del Mar Delgado-Povedano, University of Antwerp, BE	Metabolomic Signatures in a Flemish Population Exposed to Per- and Polyfluoroalkyl Substances
12:30-12:45	Ellen De Paepe, Ghent University, BE	A Validated Single-Tube Dual-Extraction Platform for Combined Placental Metabolomics and Lipidomics to Investigate In Utero Exposures
12:45-13:45	Lunch	
13:45-14:45	Poster session 1	
14:45 – 16:00 Session 3: Computational Metabolomics & AI (Wout Bittremieux, University of Antwerp, BE)		
14:45-15:15	Emma Schymanski, University of Luxembourg, LU	<i>Exploring Relevant Chemical Space for Metabolomics and Exposomics with Open Science</i>
15:15-15:30	Gaetan De Waele, University of Antwerp, BE	Improving metabolomics transformers for chemical database retrieval
15:30-15:45	Matthijs Vynck, Ghent University, BE	Robust metabolomics data normalization across scales and experimental designs
15:45-16:00	Sponsor talk	TBA
16:00-16:30	Coffee break + Snack	
16:30 – 17:45 Session 4: Natural Products, Ecological & Plant Metabolomics (Geert Goeminne, VIB, Ghent University, BE)		
16:30-16:45	Sandra Pous Torres, dsm-firmenich, NL	Metabolomics of Bad Taste: Hunting Plant Off-Notes
16:45-17:00	Meng Peng, VIB Center for Plant Systems Biology & Ghent University, BE	Identification of a biosynthetic gene cluster underlying three post-chorismate pathways in Arabidopsis thaliana
17:00-17:15	Huong T. Pham, Sookmyung Women's University, KR	Functional metabolomics-based reinvestigation of halogen promiscuity in Griseofulvin biosynthesis pathway
17:15-17:45	Kyo Bin Kang, Sookmyung's Women University, KR	<i>Qualitative Metabolomics Accelerates Function Studies of Natural Products</i>
17:45-18:45	Poster session 2 + Drinks	
19:00-20:30	Dinner	

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Wednesday, 23 September 2026 (DAY 2)		
08:30 - 09:00	Arrivals day 2 + registration	
09:00 – 10:15 <i>Session 5: Untargeted Metabolomics: Methods, Workflows & Data Interpretation (TBA)</i>		
9:00-9:30	Joleen Masschelein - VIB-KU Leuven, BE	Metabolomics-driven exploration of antibiotic biosynthesis in bacteria
9:30-9:45	Kimberly De Windt, Ghent University, BE	Design of Experiments-Guided Optimization of Automated Biphasic Fecal Extraction for Simultaneous UHPLC HRMS-based Metabolomics and Lipidomics
9:45-10:00	Samer Makni, University of Antwerp, BE	Structural Analog Discovery in Untargeted Metabolomics with Custom Nearest-Neighbor Suspect Libraries
10:00-10:15	Larissa Della Vedova, Utrecht University & Wageningen University & Research, NL	Metabolic resilience as a network property: lessons from co-regulatory rewiring of untargeted metabolomics data across two urobiome models
10:15-10:45	Coffee break	
10:45 – 12:00 <i>Session 6: Clinical & Translational Metabolomics (Sofia Moco, VU Amsterdam, NL)</i>		
10:45 - 11:15	Gabi Kastenmüller, Helmholtz Munich, DE	TBA
11:15-11:30	Maria Tretowicz, University of Amsterdam, NL	Whole-blood NAD does not decline across age and lifestyle interventions in humans
11:30-11:45	Corey Griffith, Luxembourg Institute of Health, LU	Dissecting metabolic plasticity and vulnerabilities in glioblastoma
11:45-12:00	Noa Van de Velde, Ghent University, BE	High-throughput fecal metabolomics using cIMS-coupled LA-REIMS in pediatric overweight and obesity
12:00-13:00	Lunch	
13:00-14:00	Poster session 3	
14:00 – 15:15 <i>Session 7: Lipidomics, Fluxomics & Stable-Isotope Tracing (Bart Ghesquière KU Leuven, BE)</i>		
14:00-14:30	Maria Fedorova, Technical University Dresden, DE	Mapping Lipid Metabolism Across Time and Space Using Mass Spectrometry
14:30-14:45	Emilie Daut, VU Amsterdam, NL	Zebrafish lipidome across transgenic lines - a comparison and insights into Endocrine disruption
14:45-15:00	Frederic Vaz, Amsterdam UMC, NL	Multidimensional mass spectrometry for metabolomics and lipidomics: Applications in inborn errors of metabolism and research
15:00-15:15	Sam De Craemer, VIB Ghent & KU Leuven, BE	Broad GC-based targeted tracer metabolomics using Soft Ionization by Chemical Reaction In Transfer (SICRIT)
15:15-15:45	Coffee break	
15:45 – 17:00 <i>Session 8: Single-Cell & Spatial Metabolomics (Ahmed Ali, Leiden University, NL)</i>		
15:45-16:00	Marco Giampa, KU Leuven, BE	Revealing Hidden Variables in DESI-based Spatial Metabolomics: Solvent Composition and Tissue Type as Critical Drivers
16:00-16:15	Peter Verhaert, KU Leuven, BE	Direct high-resolution mass spectrometry imaging of metabolites in histological sections of FFPE tissue samples aligned with pathology. More than expected!
16:15-16:45	Melanie Bailey, Imperial College London, UK	Recent Progress in Capillary Sampling and Mass Spectrometry at the SEISMIC Facility for Spatially Resolved Single and Sub-cellular Omics
16:45-17:00	Closure	BEST POSTER prize, announcement BMD-2027 & Closure



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