

Poster

P1* Improving lipid identification and quantification: chromatogram deconvolution for LCMS/MS workflows, **Felix Niedermaier** (Institute of Analytical Chemistry, University of Vienna, Vienna, Austria)

P2 Enabling FAIR comparative lipidomics with LipidCompass, **Nils Hoffmann** (Forschungszentrum Jülich, Jülich, Germany; Universität Wien, Vienna, Austria; BIBI, Bielefeld University, Bielefeld, Germany)

P3 LipidLens: Making sense of the soup, **Sanjay Kumar Srikakulam** (IBG-5, Forschungszentrum Jülich GmbH, Jülich, Germany)

P4* Towards standardized and reproducible lipidomics workflows for FAIR mass spectrometry data analysis, **Franziska Nicolaus** (IBG-5, Forschungszentrum Jülich GmbH, Jülich, Germany; Bielefeld Institute for Bioinformatics Infrastructure (BIBI), Faculty of Technology, Bielefeld University, Bielefeld, Germany)

P5* HILIC-MS/MS reveals general lipid depletion in TMPro mice cardiac tissues, **Laura Lehmiche** (Section Clinical Mass Spectrometry, Institute of Laboratory Medicine, Clinical Chemistry and Molecular Diagnostics, Leipzig, Germany)

P6* Incorporation of epoxy-fatty acids in phospholipids of human cells, **Jonas Ditzler** (Food Chemistry, School of Mathematics and Natural Sciences, University of Wuppertal, Germany)

P7* LC-MS Analysis of triacylglycerols bearing epoxy fatty acids, **Katja Mosel** (Food Chemistry, School of Mathematics and Natural Sciences, University of Wuppertal, Germany)

P8 Comprehensive quantitation and structural characterization of oxylipin isomers via high-resolution QTOF mass spectrometry utilizing CID and EAD, **Cagakan Ozbalci** (SCIEX, UK)

P9* Characterization of lipid metabolic landscape of T-cell differentiation, **Nikolai Kureev** (Cell Biology and Biophysics Unit, EMBL, Heidelberg, Germany; Faculty of Mathematics and Informatics, FSU, Jena, Germany)

P10 Differentiation of isomeric phospholipids by fragmentation of lipid adduct ions, **Nicole Zehethofer** (Thermo Fisher (Bremen) GmbH)

Poster

P11* Mechanistic investigation of the influence of unsaturated fatty acids on platelet activation using direct infusion and LC-MS/MS, **Alexander Eder** (University of Vienna, Faculty of Chemistry, Department of Analytical Chemistry, Vienna, Austria; University of Vienna, Vienna Doctoral School in Chemistry (DoSChem), Vienna, Austria)

P12* Building a faster, future-ready LipidXplorer ecosystem for multidimensional MS-based lipidomics, **Md Ballal Hossen** (Division of Bioanalytical Chemistry, Research Center Borstel, Leibniz Lung Center, Borstel, Germany)

P13 Dynamic lipidome remodeling during neutrophil extracellular trap formation, **Patrick Münzer** (DFG Heisenberg Group Cardiovascular Thrombo-Inflammation and Translational Thrombocardiology, Tübingen, Germany; Department of Cardiology and Angiology, University of Tübingen, Tübingen, Germany)

P14* Culture-dependent remodeling of the M. tuberculosis virulence lipids phthiocerol dimycocerosates and strategies for quantification, **Wiebke Gauda** (Division of Bioanalytical Chemistry, Priority Area Infections, Research Center Borstel, Borstel, Germany)

P15* Analysis of the glycosyldiacylglycerols of *Streptococcus canis*, **Anna Nehrmann** (Division of Bioanalytical Chemistry, Research Center Borstel, Borstel, Germany)

P16 Tandem mass spectrometric behavior of ammonium and lithium adducts of acetate esters, **Dominik Schwudke** (Division of Bioanalytical Chemistry, Research Center Borstel, Borstel, Germany; German Center for Infection Research, Thematic Translational Unit Tuberculosis, Partner Site Hamburg-Lübeck-Borstel-Riems, Borstel, Germany; German Center for Lung Research (DZL), Airway Research Center North (ARCN), Research Center Borstel, Leibniz Lung Center, Borstel, Germany)

P17 The host-microbe interactome: decoding lipid metabolism and membrane dynamics during mycobacterial infection, **Aby Anand** (Centre for Structural Systems Biology, Hamburg, Germany; Host-Microbe Interactome, Research Center Borstel, Leibniz Lung Center, Borstel, Germany; Biology Department, University of Hamburg, Hamburg, Germany; Molecular Infection Biology, Department of Biology/Chemistry & Center of Cellular Nanoanalytics, University of Osnabrück, Osnabrück, Germany)

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LIPIDOMICS FORUM



Research Center Borstel, Leibniz Lung Center

September 7th-9th, 2026



Program

Monday, 7. September 2026

10:00 - 16:30	LIFS - Workshop
16:00	Registration opens
18:00 - 19:00	Opening Keynote - K1 Tracing lipid metabolism using alkyne lipids, click chemistry and mass spectrometry, Christoph Thiele (LIMES, University Bonn, Germany)
19:00	Dinner / Come Together Music: Jazz Trio: Jörg Hochapfel (Piano), John Hughes (Bass), Björn Lückner (Drums)
21:30	Bus transfer to hotels

Tuesday, 8. September 2026

approx. 8:30	Bus transfers
09:30 - 10:30	T1 Methods for reconstitution of membranes and analysis of their interactions with antimicrobials, Christian Nehls (Research Center Borstel, Germany)
10:30 - 10:50	ST1* Developing a toolbox for investigating lipid and cell specificity of membrane active peptides on immune cells, Aileen Kerfin et al. (Research Center Borstel, Germany)
10:50 - 11:10	ST2* Uptake and incorporation of hydroxy fatty acids into polar lipids in human cells, Luca M. Wende et al. (University of Wuppertal, Germany)
11:10 - 11:30	Coffee Break
11:30 - 11:50	ST3 Deciphering the phospholipidome of human lymphoma cells by LC-MS/MS utilizing mobility-resolved fragmentation, Heiko Hayen et al. (University of Münster)

11:50 - 12:10	ST4 Lipids, extracellular vesicles and cancer cell aggressiveness, Kathrin M. Engel et al. (Leipzig University, Germany)
12:10 - 12:30	ST5 Comprehensive isomer-resolved ganglioside profiling by HILIC-nanoESI-MS/MS, Nina Troppmair et al. (University of Vienna, Vienna, Austria)
12:30 - 13:00	Sp1 Beyond lipid composition: unlocking lipid structural features using the ZenoTOF 8600 (Sciex), Amirreza Dowlati et al. (University of Vienna, Austria)
13:00 - 14:00	Lunch
14:00 - 15:00	K2 Twists of fat in plasma membranes, Georg Pabst (University of Graz, Austria)
15:00 - 15:20	ST6 'Lipid-docking' landscape of a membrane active peptide reveals novel targets in NLRP3 inflammasome activation in macrophages, Andra B. Schromm (Research Center Borstel, Germany)
15:20 - 15:40	ST7 Does the Fenton reaction have marked physiological relevance (in the presence of salt)? - An in vitro MS study with unsaturated phospholipids, Jürgen Schiller et al. (Leipzig University, Germany)
15:40 - 16:00	Coffee Break
16:00 - 17:00	K3 Computational toolkits for discovering and analysing lipid binding sites in membrane proteins, Phillip Stansfield et al. (University of Warwick, UK)
17:00 - 19:00	Poster Session
19:00 - 21:30	Come Together, Barbecue Musical Guests: Farmer and Firefighter Brass Band Hartenholm
21:30	Bus transfers to hotels

Wednesday, 9. September 2026

approx. 8:30	Bus transfers
09:30 - 10:30	T2 Visualizing lipid distributions by mass spectrometry imaging - methods, applications, and challenges, Sven Heiles (ISAS Dortmund, Germany)
10:30 - 10:50	ST8* Characterizing lipid droplet formation in murine C3HeB/FeJ and C57BL/6 macrophages infected with Mycobacterium tuberculosis, Linda Zemke et al. (Research Center Borstel, Germany)
10:50 - 11:20	Coffee Break
11:20 - 11:40	ST9* The use of liposomes for in-depth assessment of the membrane activity of antimicrobial peptides, Janina Louisa Nandy et al. (Research Center Borstel, Germany)
11:40 - 12:40	K4 Biophysical membrane properties are altered during ferroptosis execution, Lohans Pedrera et al. (University of Cologne, German)
12:40 - 13:00	Closing Session
13:00 - 14:00	Lunch - Farewells - Transfers
14:00 - 15:00	DGMS - FG Lipid Analysis and Lipidomics Meeting

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