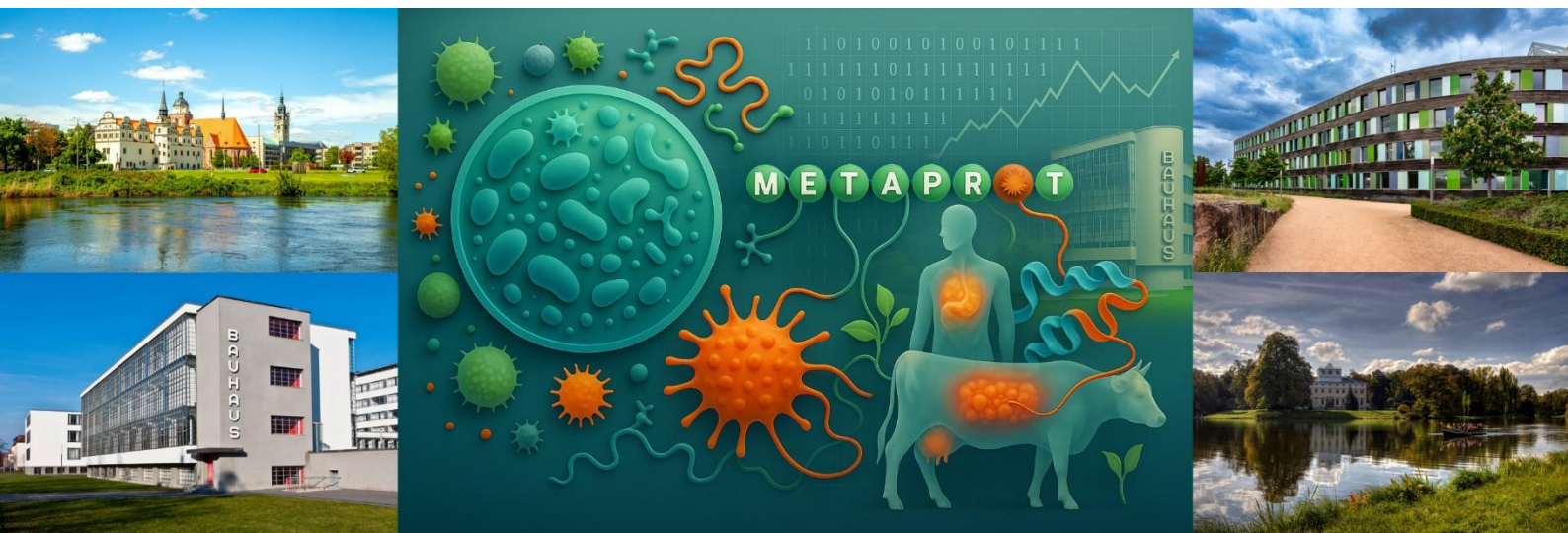


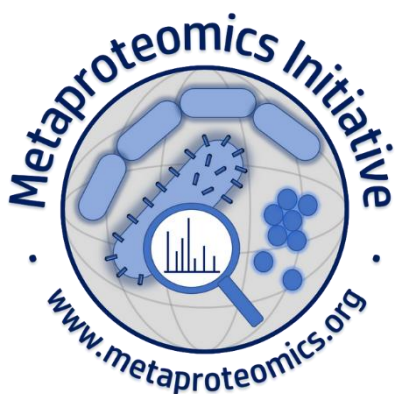


7th International Metaproteomics Symposium

Topic: *“From single molecules to metabolic networks”*

June 21 -24, 2026

DESSAU-ROßLAU, UMWELTBUNDESAMT, GERMANY



<https://seventhmetaproteomicssymposium.hs-anhalt.de>

General information:

- Invited speakers: 45 min presentation time including discussion (10 min)
- Short presenters: 15 min presentation time including discussion (3 min)
- Seventh Metaproteomics Symposium: **June 21st - June 24th, 2026**
- Social Event: **June 23th, 2026**

SUNDAY 21 JUNE 2026

Arrival, check-in at the hotel

15:30 – 17:00	Welcome reception at the <i>Café-Bistro im Bauhaus</i> (Gropiusallee 38 06846 Dessau-Roßlau) with coffee and cake
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17:30 – 19:00	Guided walk to the BAUHAUS buildings (UNESCO world heritage)
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MONDAY 22 JUNE 2026

08:00 - 09:00 Registration and coffee, poster set up in poster hall

Welcome address:

- **Dirk Benndorf**, conference organizer, Microbial Communities, Anhalt University of Applied Sciences, Köthen, Germany
- 09:00 – 09:30** • **Jörg Bagdahn**, president of Anhalt University of Applied Sciences, Köthen, Germany
- **Dr. Marcel Langner**, Federal Environment Agency (Umweltbundesamt), Dessau-Roßlau, Germany

Session 1: Microbiomes in health and disease

Chairs: Robert Heyer, Alessandro Tanca

09:30 – 10:15: INVITED LECTURE (supported by Cmbio):



Xenobiotic Resistance and Microbiome Function in Health and Disease

Daniel Figeys, Quadram Institute, Norwich, United Kingdom

10:15 – 10:30

Prebiotic fiber mitigates disease through restoration of mucosal barrier and goblet cell function independent of butyrate production

Ayesha Awan

10:30 – 10:45

Salivary Metaproteomics to Study the Functional Response of the Oral Microbiome

Chandra Ramalingam

10:45 – 11:00

Metaproteomic investigation of the gut ecosystem in pre-term infants receiving probiotics with and without late-onset sepsis

Maximilian Wolf

11:00 – 11:30 Coffee Break

11:30 – 11:45

Reshaping of the fecal proteome and metaproteome in obese patients two years after bariatric surgery

Alessandro Tanca

11:45 – 12:00

Metaproteomics identifies microbial and host functional signatures supporting patient stratification under CFTR modulation

Lucia Grenga

12:00 – 12:15

Deciphering anaerobic myo-inositol metabolism in intestinal microbiomes using protein-stable isotope probing

Jana Seifert

12:15 – 12:30

Clinical Metaproteomics for Early Detection of Host–Microbial Dysregulation in Fanconi Anemia

Pratik Jagtap

12:30 – 12:45

Metaproteomic signatures under chronic social stress in pigs: protein biomarkers and functional characterisation

Raquel Río-López

12:45 – 13:45 Lunch Break

13:45 – 14:00 Stretch your proteins: a guided sport session

Session 2: Integrative multi-omics, bioinformatics and modelling

Chairs: David Gomez Varela, Jana Seifert

14:00 – 14:45: INVITED LECTURE

Making sense of complex omics data: a computational view on metaproteomics

Laura Elo, University of Turku, Turku, Finland

14:45 – 15:00

Multi-omics mining of dark microbial matter for synthetic biology and biotechnology: call for action to the metaproteomics community

Pranas Grigaitis

15:00 – 15:15

Comprehensive evaluation of statistical approaches for differential metaproteomics

Tjorven Hinzke

15:15 – 15:45 Coffee Break

15:45 – 16:00

Developing Community-Driven SDRF Metaproteomics Templates and User-Friendly Metadata Annotation via lesSDRF

Pieter Verschaffelt & Tim Van Den Bossche

16:00 – 16:15

Help, UniProt changed!? Does Unipept still work?

Tibo VandeMoortele

16:15 – 16:30

TaxonLFQ: Rescuing the shared proteome for more accurate microbial quantification

Tanja Holstein

16:30 – 16:45

Ultrafast metaproteomics with DirectMS1

Elizaveta Kazakova

16:45 *end of scientific program of the first conference day*

Tuesday 23 JUNE 2026

08:00 - 08:30 Registration

Continuation of Session 2: Integrative multi-omics, bioinformatics and modelling

Chairs: Pratik Jagtap, Robert Heyer

08:30 – 08:45

AI-powered design of increasingly simplified microbial communities

Rajesh Bajiya

08:45 – 09:00

MetaProteomeAnalyzer Cloud for Scalable Metaproteomics Analysis

Robert Heyer

09:00 – 09:15

From Prediction to Validation: An Integrated Multi-omic Approach to Identify Amyloidogenic Small Microbial Proteins in the Human Gut

Júlia Ortís Sunyer

09:15 – 09:30

AutoRun: an automated pipeline for database-free metaproteomics

Oliver Pible

09:30 – 10:00 Coffee Break

Session 3: Ancient Proteins

Chair: Nico Jehmlich

10:00 – 10:45: INVITED LECTURE:

Unravelling ancient skeletal proteomes.

Frido Welker, University of Copenhagen, Denmark

10:45 – 11:00

Paleoproteomics - Tracing ancient plant proteins in sediment cores of lakes

Moritz Sest

11:00 – 11:30 *Updates from Metaproteomics Initiative*
Tim Van Den Bossche, Benoit Kunath

11:30 – 12:00 Poster Pitch (1 Minute per Poster)

12:00 – 13:30 *Lunch Break and Poster Session*
Guided tour of the UBA premises (30 min), max. 20 participants, on-site registration

Session 4: Environmental microbiomes

Chairs: Ryan Ziels, Magnus Arntzen

13:30 – 14:15: INVITED LECTURE:

Linking single-cell CO₂ fixation to metabolic function in groundwater chemolithoautotrophs

Martin Taubert, Friedrich Schiller University Jena, Germany

14:15 – 14:30

Deep metaproteomic profiling of biofilm-forming wastewater communities with ionic liquids

Berdien van Olst

14:30 – 14:45

Metagenomics and metaproteomics uncover microbial interactions in anaerobic lignocellulolytic consortia

Guillermina Hernandez Raquet

14:45 – 15:00

Microbial consortia mediating lignocellulose turnover and denitrification in eutrophic lake sediment enrichments

Magnus Arntzen

15:00 – 15:15

Metaproteomic insights into diurnal variability of bacterioplankton communities during a spring phytoplankton bloom in the North Sea

Anke Trautwein-Schult

15:15 – 15:35 Coffee Break

16:00 - 22:00

Excursion to UNESCO cultural heritage GARTENREICH DESSAU-WÖRLITZ and conference dinner

Departure to Wörlitz at main station 16:05!

Wednesday 24 JUNE 2026

08:30 – 09:00

Registration

Continuation of Session 4: Environmental microbiomes

Chairs: Jean Armengaud, Anke Trautwein-Schult

09:00 – 09:15

Enhancing proteome analysis of environmental microorganisms: FISH-FACS and label-free quantitative proteomics from ultra-low cell numbers

Vaikhari Kale

09:15 – 09:30

Metaproteomic Insights into Microbial Dynamics in a Self-forming Dynamic Membrane Bioreactor for Wastewater Treatment

Emanuele Ferrari

09:30 – 09:45

Genome-resolved metaproteomics analysis of a simplified wheat microbiome

Hannah Martin

09:45 – 10:15

Coffee Break

Session 5: Microbiomes of human made habitats, e.g. food, technical systems, etc.

Chairs: Martin Taubert, Robert Hettich

10:15 – 11:00: INVITED LECTURE (supported by BRUKER):

Finding needles in the haystack: Uncovering novel syntrophs within biogas systems using activity targeted metaproteomics.



Ryan Ziels, The University of British Columbia, Vancouver, Canada

11:00 – 11:15

High-throughput proteomics of gut bacterial co-cultures

Stephan Kamrad

11:15 – 11:30

Lysine Acetylation Links Dietary Fiber to Gut Microbial Function

Lior Lobel

11:30 – 11:45

Mapping the Interactome of Microbial Carbohydrate Metabolism in Gut Microbiota Using Chemo-metaproteomics

Jack Russo

11:45 – 12:00

Metaproteomic analysis reveals stable methanogenic communities during anaerobic digester reconfiguration and glycerol amendment

Hassan Abbas

Gold Sponsor Presentations

12:00 – 12:15

Integrated Metabolomics and Metaproteomics of Fermented Fecal Samples Enables Species-Level Functional Insights

Kristian Jensen Pedersen, CMbio, Copenhagen, Denmark

12:15 – 12:30

timsCompare: Effortlessly compare and extract data from Bruker MS methods

Tobias Kroniger, Bruker Daltonics, Bremen, Germany

12:30 – 13:30	Lunch Break <i>Guided tour of the UBA premises (30 min), max. 20 participants, on-site registration</i>
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Session 6: Emerging methods: single protein sequencing, MS-based de-novo sequencing, functional prediction, activity assays

Chair: Dirk Benndorf

13:30 – 14:15: INVITED LECTURE:

Single-molecule sequencing of full-length proteins using nanopores

Giovanni Maglia, University of Groningen, Groningen, The Netherlands

14:15 – 14:30

Detection of stress-induced phages in a microbial community from an anaerobic digester

Patrick Hellwig

14:30 – 14:45

Chemical metaproteomics decodes cross-species quorum sensing interactions in the IBD microbiome

Peter Treit

14:45 – 15:00

The smORF-sized proteome: hunting tiny proteins in metaproteomes
Arturo Vera-Ponce de León

15:00 – 15:30	Coffee Break, poster removal
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Best Manuscript Award and talk

15:30 – 16:00	<i>Machine learning-based rescoring with MS²Rescore boosts peptide identification and taxonomic specificity in metaproteomics</i> Tim Van Den Bossche
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Open discussion on perspectives of metaproteomics in microbiome research incl. Status discussion of CAMPI Challenges and Future directions

16:00 – 17:00	Robert L Hettich, Dirk Benndorf
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Granting poster awards and closing remarks

17:00 – 17:30	Dirk Benndorf, conference organizer, Microbial Communities, Anhalt University of Applied Sciences, Köthen, Germany
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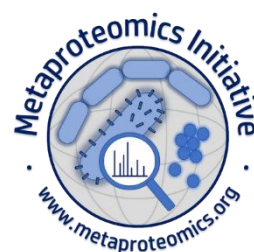


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[Metaproteomics Initiative](#)



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