

01:00 pm	Hall 1	<b>Welcome &amp; Opening</b> <i>Prof. Rolf Altenburger</i> <i>Dr. Daniel Kaping</i> <b>Poster Pitches</b> <i>Chairs: Soné Kotze (COMPBC) &amp; Philemon Anuforo (AME)</i>
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02:30 pm	<i>break</i>
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02:45 pm	Foyer	<b>Open Poster Session</b> Posters of UFZ doctoral projects UFZ Services
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04:30 pm	Hall 1	<b>Award Ceremony &amp; Keynote</b>  Awarding of Prizes for Best Posters & Best Poster Pitch Honoring of PhD Finishers  Keynote event: Prof. Dr. Karsten Rinke "It is not all about papers: The pressure, fear, difficulty and EXCITING FUN in communication to non-scientists"
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~5:30 pm	Foyer	<b>After-Event</b> organized by doctoral researchers
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**Your notes for the pitch vote:** Please select the **ONE** poster pitch, which was most clear, concise and convincing **via the QR code after the pitch session**



<https://ufz.coactum.de/759210/>



### Sustainable Ecotechnologies

- 1 Natalia Sánchez (AME): The future of phytoremediation
- 2 Aleksandra Pienkowska (AME): Climate change will increase Cd accumulation in spinach leaves
- 3 Juan Lopez Galvez (AME): Development of an Automated Online Flow Cytometry Method to Quantify Cell Density and Fingerprint Bacterial Communities
- 4 Tianyu Wang (AME): Climatic conditions impact As and Cd mobility differently in flooded paddy soils
- 5 Konstanze Hild (AME): Fungal VOC As Triggers For Prophage Induction
- 6 Ruyu Gao (AME): Verifying Feasibility of Looped Mass Transfer Design Based on Single Cell Analyses and Ecological Theory
- 7 Yiqing Zhang (AME): Spatial Heterogeneity of Soil Properties Shapes Residual Pesticide Concentrations on the Meter-Scale
- 8 Thanh Quynh Duong (AME): The fate of organic carbon and nitrogen in the subsurface: What happens along the many groundwater flow paths?
- 9 Simon Klaes (MEB): Microbial transformation of ambroxol and sitagliptin in urban hyporheic zone sediment under different redox conditions
- 10 Hannah Berreth (MIBITECH): Hydrogen production in Rhodopseudomonas palustris dominated biofilm consortia
- 11 Maliheh Abdollahi Mirabadi (MIBITECH): Locking out oxygen: Alternative anodic reaction for cathodic anaerobic electrobiosynthesis
- 12 Daniel Kähl (MIBITECH): Enhancing interspecies electron transfer in methanogenic communities growing on fatty acids
- 13 Aykut Kas (MIBITECH): Exploring Valuable Bioproduct Synthesis from CO<sub>2</sub> through Integrated Electrochemical and Microbial Processes with Salt-loving Microbes
- 14 Yvonne Schößow (MIBITECH): Investigations of entropic barriers for electroactive bacteria
- 15 Shiyue Yang (MIBITECH): Thermodynamics of microbial turnover of organic compounds in soil – matter and energy flux under varying environmental conditions (water, nutrient availability, temperature)
- 16 Eliana Di Lodovico (MIBITECH): Substrate affects microbial driven distribution of energy and matter among organic carbon functional pools in soil
- 17 Selina Hanisch (MIBITECH): Towards the Development of Spatially Structured, Mixed-Species Phototrophic Biofilms
- 18 Zhenyu Wang (TECH): Effect of temperature on nitrate reduction by an aquifer microbial community

### Chemicals in the Environment



- 19 Kyriakos Soulios (COMPBC): A window in the black box: Conformal Prediction for Informed Decisions in Toxicology
- 20 Alina Seelig (EAC): Plant uptake of persistent and mobile chemicals
- 21 Rebecca Rodrigues Matos (EAC): Integrating advanced analytical approaches to study the isomeric composition of marine dissolved organic matter (DOM)
- 22 Konstantin Stumpf (EAC): Soil Organic Matter Formation and Stabilisation Governed through Metabolic Processes
- 23 Volkwin Kuntz (EAC): Quantification and occurrence of 39 tire-related chemicals in urban and rural aerosol
- 24 Stembridge Ayuk (IMMU): SARS-CoV-2 Infection in pregnancy using in-vitro models
- 25 Federica Romanelli (IMMU): Can Bisphenol A exposure threaten life at its very beginning? BPA impact on early pregnancy vascularization processes
- 26 Debjyoti Ghosh (MOLTOX): Cover crop monocultures and mixtures enhance bacterial abundance and functionality in the rhizosphere through root channel re-use
- 27 Cassandra Uthoff (MOLTOX): The effects of pesticides on the gut-brain axis and phenotypical behaviour of Western honey bee workers (*Apis mellifera*)
- 28 Alix Aldehoff (MOLTOX): Acetylation and Phosphorylation are Dynamically Involved in Adipocyte Differentiation and Provide Insight on their Response to the Emerging Plastic Additive DINCH
- 29 Cornelius Goerdeler (MOLTOX): MINCH causes metabolic rewiring towards lipid accumulation and adipogenesis
- 30 Georg Braun (ZELLTOX): Extracting complex chemical mixtures from human blood samples

### Water Resources and Environment



- 31 Faluku Nakulopa (ASAM): Modelling effects of a reservoir on catchment nutrient dynamics under climate and land use change
- 32 Mufeng Chen (ASAM): Impact of forest dieback on catchment hydrology and nitrogen export
- 33 Anika Große (ASAM): Reactive macronutrient ratios and light as predictors for nutrient cycling in stream ecosystems
- 34 *Safae Aala (ASAM): The Spatiotemporal Puzzle: Understanding How Dynamics of Precipitation Control the Shape and Timing Characteristics of Runoff Events - cancelled*
- 35 Julia Zill (CATHYD, FLOEK): Diffuse nutrient input to large rivers: Quantifying the dimension of groundwater discharge and its effects on riverine eutrophication in the Elbe

### Smart Models / Monitoring



- 36 Lily-belle Sweet (CER): Using interpretable machine learning to identify climate drivers of yield failure
- 37 Peter Miersch (CER): Sensitivity analysis of causal discovery on simulated river flood data using non-linear conditional independence testing
- 39 Feliks Kiskurno (ENVINF): Hypothesis-testing and assisted-history-matching applied to evaluate uncertainty of model selection and parameter values: a case study of the impact of thermo-osmosis
- 40 Julia Kunkel (OESA): How a supra-regional hay market could increase the drought resistance of dairy farmer: a network model study

### Environment and Society



- 41 David Manske (BEN): Monitoring Renewable Energy Landscapes

### Ecosystems of the Future



- 43 Daniel Vedder (BIOP): Persefone.jl: landscape-scale biodiversity impacts of agricultural practice
- 44 Lea Kolb (BIOP): How much is the hedge? Testing policies to incentivise hedge planting
- 45 Guoting Shen (BOOEK): Contribution of seminal and lateral roots to the spatial distribution of organic nitrogen in the rhizosphere of maize
- 46 María Martín Roldán (BOOEK): Microbial growth and functional traits adaptation in a 5 years maize monoculture
- 47 Lena Philipp (BOOEK): Surprising Patterns of Soil Microbial characteristics in Agroecosystems under Global Change: Insights from Deeper Topsoil Investigations
- 48 Johannes Höfner (BZF): Genetic differentiation of common grassland species and implications for seed transfer in ecological restoration
- 49 Xiaoli Yang (BZF): Climate and land-use interactions shape the functional diversity of nematode communities
- 50 Can Zhang (CLE): Research on glacier ecosystem services and ecological compensation on the Tibetan Plateau
- 51 Diego Brizuela-Torres (NSF): Opportunities and bottlenecks for sustainable oil palm in Peru
- 52 Fabian Pröbstl (NSF): Restoration or conservation? Well, we don't know.
- 53 Yva Herion (PHYDIV): How do climate change and grassland management affect plant nutrition?