

Conference Programme

Time	Location	Programme
11:00 am	Foyer	Warm-up at KUBUS Leipzig UFZ services: HIGRADE, Do-it, Statistics support, WTT, RDM, Bioinformatics Service, International Office, Family support office
01:00 pm	Hall 1	Welcome & Opening <i>Prof. Rolf Altenburger</i> <i>Dr. Daniel Kaping</i> Poster Pitches <i>Chair: Sarah Unrath & H. Stembridge Ayuk</i>
02:15 pm	break	
02:30 pm	Foyer	Open Poster Session Scientific posters and UFZ services
04:00 pm	Hall 1	Award Ceremony including Awarding of Prizes for Best Posters & Best Poster Pitch Honoring of PhD Finishers Keynote event: Andrea Büermann & Dr. Guy Pe'er: "Citizen Science: exciting, promising but also demanding! Example from VielfalterGarten" <i>Chair: Dr. Daniel Kaping</i>
~5:00 pm	Foyer	Get-together with snack buffet, ~7:00 pm "after-show" party

Posters



Ecosystems of the Future

1. **Linda Rigerte (BOOEK)**: Drought tolerant synthetic community from barley rhizosphere
2. **Fatemeh Dehghani Mohammad Abadi (BOOEK)**: Linking heat and matter turnover during microbial decomposition of glucose in soil to procedure of substrate application
3. **Saneesh Cherapurath Soman (BZF)**: "End of a conversation"
4. **Julián Equihua (BZF)**: Connectivity planning through deep reinforcement learning
5. **Jana Kachler (ESS)**: People and Nature- What values associate nature visitors with protected areas in Germany?
6. **Sarah Martin (PHYDIV)**: Effects of nitrogen and litter addition on germination and seedling growth of 75 grassland species
7. **Franziska Walther (PHYDIV)**: Spatio-temporal variation of zoophilous pollen traits within species - How diverse are pollen of insect-pollinated plants in space and time?



Environmental Engineering and Biotechnology

8. **Gangan Wang (ISOBIO)**: Direct-geneFISH to link antibiotic resistance gene presence and phylogeny in microbial populations
9. **Katharina Smaluch (SOMA)**: Heavyweight data: Microscale material balancing in microfluidics
10. ~~**Xiaoyan Chen (TUCHEM)**: Optimization of pollutant removal from green roofs operated with low-polluted wastewater (cancelled)~~
11. **Pegah Fatehbasharzad (TUCHEM)**: Is electrosorption fit for the removal of persistent and mobile organic compounds?
12. **Yu Liu (UBT)**: Identification of enzymes responsible for anaerobic transformation of sulfamethoxazole in sulfate reducing bacteria
13. **Christina Schäfer (UMB)**: Engineering microbial communities for the conversion of lignocellulose into medium-chain carboxylic acids
14. **Adrian Tüllinghoff (UMB)**: From photons to product - Cyanobacterial whole-cell redox biocatalysis: Why? What? How much?
15. **Jinyao He (UMB)**: Electric field effects on sorption and microbial degradation of waterborne (urban) contaminants
16. **Muhammad Kabiru Nata'ala (UMB)**: Uncovering the Hidden Role of Prokaryotes in Carbon Fixation from Marine Surface Water: Insights for Climate Regulation
17. **Gennuo Wang (UMB)**: Exploring the potential interactions of DNA viruses and their prokaryotic hosts in Bromoxynil and Control soils



Environmental Engineering and Biotechnology

18. **Laura Pause (UMB)**: Anaerobic glucose uptake across the cytosolic membrane of *Pseudomonas putida* in BES
19. **Hans Schneider (UMB)**: Physiology of *Synechocystis* sp. PCC 6803 under biophotovoltaics conditions
20. **Natalia Sánchez (UMB)**: The future of phytoremediation (cancelled)
21. **Die Hu (UMB)**: Did you know gut microbial stability may be linked with allergies? An exploration at atopic eczema in 10 years old children



Environment and Society

22. **Sören Richter (BEN)**: Explorative scenarios for system integration of biorefineries in cascaded material flows within a future circular bioeconomy in Germany up to 2045
23. **Jasmin Heilemann (OEKON)**: From rain-fed to irrigated agriculture? Projecting the future irrigation water demand in Germany using a hydro-economic multi-agent system model
24. **Jan Sodoge (SUSOZ)**: Text-mining for assessing and analyzing socio-economic drought impacts
25. **Felix Klickermann (UPR)**: Management of Water Allocation Conflicts - Legal bases, empiricism, perspectives



Water Resources and Environment

26. **Yao Li (ASAM)**: How climate change affects the expansion and contraction of river networks
27. **Safae Aala (ASAM)**: Do land cover mosaics affect the variability of suspended sediments in rivers? The case of large river basins in Germany (cancelled)
28. **Alexandra Schlenker (FLOEK)**: Stream food webs between degradation and recovery – the history of a multiple-stressed urban stream catchment
29. **Anne Jähkel (HDG, ASAM)**: Quantification of hydrologic turnover and its implications for nutrient uptake in streams
30. **Valeria Farez-Román (SEEFO)**: Winter diatom ecology in lakes
31. **Lipa Nkwalele (SEEFO)**: Evaluating synchrony among neighboring reservoirs through high frequency data
32. **Patrick Aurich (SEEFO)**: The floating membrane equilibrators: a low-cost device to measure CO₂ concentrations at the water-atmosphere interface.

Smart Models / Monitoring



- 33. **Masooma Batool (CHS)**: Long-term Trajectories of Soil Nitrogen Surplus Across Europe (1850-2019)
- 34. **Mohit Anand (CHS)**: Identifying compound weather drivers of tree mortality with generative deep learning
- 35. ~~**Jalil Asadi (MET)**: Uncertainty quantification – Subjectivity in imaging and image fusion (cancelled)~~
- 36. **Lukas Flinspach (OESA)**: Reproducing alpine treeline ecotones in an agent-based model: the STEM

Chemicals in the Environment



- 37. **Aurelio Giovanni Foscari Widmann Rezzonico (ANA)**: Biodegradation studies on tire tread particles: a comprehensive investigation on both leachates composition and particle changes
- 38. **Shuxian Gao (ANA)**: Multiple Deuterium Labelling: New Insights into the Fate of Organic Pollutants in Natural Waters.
- 39. **Silvia Dudasova (ANA)**: Automated data processing workflow: a tool for Ultra-High Resolution MS data used in PFAS molecular formula validation
- 40. **Laura-Fabienne Fröhlich (ANA)**: Biotransformation potential of xenobiotics in an in vitro Model of Human Gut Microbiota
- 41. **Orasai Faikhaw (ANA)**: Microplastic Contamination in an Urban River in Germany – Investigating and Tackling the Challenge of Organic-Rich Matrix
- 42. **Steffen Weyrauch (ANA)**: Aging of Tire and Road Wear Particles - Results of a Lab study
- 43. **Carolyn Dahley (AUC)**: New insights into the passive membrane permeability of organic chemicals
- 44. **Soné Kotze (AUC)**: Quantitative considerations for active transport
- 45. **Nadia Katherine Herold (BIOTOX)**: Development of a Toxicity Fingerprinting System to Identify Acute Neurotoxicants in Larval Zebrafish
- 46. **Bernhard Kodritsch (BIOTOX)**: Linking toxicokinetics and toxicodynamics based on dose-and time-resolved internal concentration and effect data of selected compounds in the zebrafish embryo
- 47. **Illés Bock (BIOTOX)**: The role of toxikokinetics in the diagnostic assessment of chemicals by zebrafish embryo automated phenotyping
- 48. **Ziran Yin (IMMU)**: Different effect of BPA and its analogs on T helper 1 cell differentiation between male and females
- 49. **Victor Castañeda-Monsalve (MOLSYB)**: Screening the influence of 93 chemicals on the Simplified Human Gut Microbiota Model (SIHUMIx) using (meta)proteomics and metabolomics
- 50. **Stefanie Raps (MOLSYB)**: Unravelling the modes of action of Triclosan and its alternatives in human macrophages
- 51. **Jonas Gröning (OEKOTOX)**: Consequences of pesticide regulation on ecological risk in streams
- 52. **Isaac Tanui (WANA)**: Spatial Temporal Analysis and Risk Assessment of Organic Micropollutants in Western Kenya
- 53. **Julia Huchthausen (ZELLTOX)**: Investigation of chemical transformation processes in in vitro bioassays
- 54. **Weiping Qin (ZELLTOX)**: Role of bioavailability and protein binding of perfluoroalkyl substances in cell-based bioassays for quantitative in vitro to in vivo extrapolations