

CV – Tillmann Lüders

Dr. Tillmann Lüders is Professor and Chair of Ecological Microbiology at the Bayreuth Centre for Ecology and Environmental Research (BayCEER) of the University of Bayreuth, Germany.

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He studied Biology at the University of Hohenheim (Stuttgart, Germany), where he graduated in 1998, and obtained a PhD degree in Microbiology (*summa cum laude*) at the Max-Planck-Institute for Terrestrial Microbiology in Marburg in 2001. After a follow-up position as a PostDoc in the same lab, he moved to Munich in 2004 to become a Junior Group Leader at the Institute of Groundwater Ecology of the Helmholtz Centre Munich. There, he underwent Tenure Track Evaluation in 2009 and completed his Habilitation (*venia legendi*) at the Technical University of Munich in 2013. From 2014 to 2018, he was Deputy Head of the Institute of Groundwater Ecology in Munich, until he accepted a Full Professorship in Ecological Microbiology at the University of Bayreuth in 2019. There, since 2023, he is elected Director of the Bayreuth Centre for Ecology and Environmental Research (BayCEER).

Dr. Lüders studies the ecology of complex microbial communities and their role in controlling relevant ecosystem functions and biogeochemical processes in the environment. He works in soils, in the rhizosphere of plants, in surface waters as well as in groundwater and on cave biofilms. Microbial carbon and nitrogen cycling, water quality, plastics pollution and novel microbial ecophysiologicals are amongst his central research topics. Methodological approaches in his group involve a broad spectrum of often fine-scale biogeochemical and organic analytics, quantitative molecular biological methods, next-generation sequencing, and the labelling of microorganisms and matter fluxes with stable isotopes (stable isotope probing, SIP). With this research, his team contributes to the protection and sustainable use of natural resources such as groundwater and soil.

Amongst other editorial engagements, he serves as Senior Editor of the society journal FEMS Microbiology Ecology and currently is speaker of the Expert Group “Water and Wastewater” of the German Association for General and Applied Microbiology (VAAM). Next to numerous German and European research projects, he was awarded an ERC Consolidator Grant from 2014 to 2020. He has published >110 peer-reviewed scientific papers, resulting in a total of >7500 citations and an H-index of 48.

Since first meeting on the International Symposium for Subsurface Microbiology in Monterey (CA) in 2014, Lüders has been maintaining an active and fruitful collaboration with Prof. Dr. András Táncsics of the Department of Molecular Ecology of the Hungarian

University of Agriculture and Life Sciences. They have worked and published together on the microbiology of hypoxic aromatic hydrocarbon degradation, also supported by a mutual Hungarian-German exchange programme funded by the Hungarian National Innovation Office (NIH) and the German BMBF. Prof. Lüders has last participated in an annual meeting of the Hungarian Society for Microbiology in Budapest in 2015. He is looking forward to further fostering intense interactions between Hungarian, German, and European Microbiologists.