

Tamás Felföldi, PhD

senior research fellow

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Education and Experience

Tamás Felföldi received his PhD degree in Microbiology in 2011 at Eötvös Loránd University, Budapest, Hungary. His main research area is aquatic microbial ecology and molecular taxonomy.

Currently, he studies the composition of microbial communities, the role of prokaryotic taxa in nutrient cycling and their biological interactions in soda and other saline lakes. His recent research questions are related to the effects of environmental changes, adaptations and responses of the communities to extreme conditions and to the potential consequences of climate change. To answer these ecological questions, he combines classic microbiological techniques with genomic tools. In parallel with these, he has isolated and described several new species of various microbes. The total number of described species new to science with his contribution is 62 (17 bacteria, 3 algae and 42 enchytraeid worms).

He works as an associate professor at the Department of Microbiology, Eötvös Loránd University, and from 2021 he is the head of the Microbial Ecology Research Group at the Institute of Aquatic Ecology, HUN-REN Centre for Ecological Research, Budapest, Hungary. He has supervised the work of 7 PhD students, 25 MSc and 27 BSc students. He published 102 SCI papers during his scientific career.

Five Representative Publications

Felföldi T, Nagy H, Dózsa-Farkas K. 2024. New data on the polyphyletic *Marionina* genus (Annelida, Enchytraeidae): description of three new species from European shore habitats. *Zoosystematics and Evolution* 100: 1269-1286.

Korponai K, Szuróczki S, Márton Zs, Szabó A, Morais PV, Proença DN, Tóth E, Boros E, Márialigeti K, **Felföldi T**. 2023. Habitat distribution of the *Belliella* genus in continental waters and the description of *Belliella alkalica* sp. nov., *Belliella calami* sp. nov. and *Belliella filtrata* sp. nov. *International Journal of Systematic and Evolutionary Microbiology* 73: 005928.

Felföldi T. 2020. Microbial communities of soda lakes and pans in the Carpathian Basin: a review. *Biologia Futura* 71: 393-404.

Szabó A, Korponai K, Kerepesi Cs, Somogyi B, Vörös L, Bartha D, Márialigeti K, **Felföldi T**. 2017. Soda pans of the Pannonian steppe harbor unique bacterial communities adapted to multiple extreme conditions. *Extremophiles* 21: 639-649.

Somogyi B, **Felföldi T**, Solymosi K, Makk J, Homonnay ZG, Horváth Gy, Turcsi E, Böddi B, Márialigeti K, Vörös L. 2011. *Chloroparva pannonica* gen. et sp. nov. (Trebouxiophyceae, Chlorophyta) – a new picoplanktonic green alga from a turbid, shallow soda pan. *Phycologia* 50: 1-10.

Candidate's Statement

My first experience with ISSLR was in 2017, in that year I participated at the society's meeting in Ulan Ude, Russia. Last year I was invited as a plenary speaker at ICSLR'24 in Antalya, Türkiye. If elected as a board member, I will try to enhance the visibility of the society. Studying for more than 20 years the saline lakes, I hope I can also contribute to promoting the research and communication related to these unique habitats at a different level in the future, as an elected board member of the International Society For Salt Lake Research.