

Biosketch Dr. Maximilian H. Ganser

Dr. Maximilian H. Ganser earned his doctoral degree in 2022 from the Paris Lodron University of Salzburg. His dissertation explored new dimensions of diversity, evolution, and geographic distribution in marine planktonic ciliates, specifically the Oligotrichea.

Research Expertise:

Dr. Ganser specializes in the taxonomy, phylogenetics, systematics, and -omics of free-living marine planktonic ciliates employing a wide range of microscopical (LM, SEM, TEM, CLSM) and molecular methods (Transcriptomics, Proteomics).

Current Position and Project:

Dr. Ganser is currently a postdoctoral researcher in the Austrian Science Fund project titled "A Multidisciplinary Approach on Tintinnid (Alveolata, Ciliophora) Shells, using Phylogeny-aware Comparative Transcriptomics and Various Microscopical Techniques." He is based in the Department of Environment and Biodiversity at the Paris Lodron University of Salzburg, Austria.

Research Accomplishments:

- Conducted analysis of metabarcoding data from European and Chinese coastal waters, revealing stronger biogeographic patterns in marine planktonic ciliates than previously assumed based on morphology.
- Developed and applied an interdisciplinary tool (DeSignate) for detecting diagnostic molecular characters in gene sequence alignments to complement taxonomic diagnoses.
- Discovered a new tintinnid genus and conducted detailed ultrastructural investigations of a tintinnid resting stage and tintinnid extrusomes.

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PLUS Research Profile:

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