



Tomasz Mamos

ASSOCIATE PROFESSOR – UNIVERSITY OF LODZ

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Currently held positions

Department of Invertebrate Zoology and Hydrobiology, Faculty of Biology and Environmental Protection

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ASSOCIATE PROFESSOR

Scientific profile and collaborations

My research focuses on identifying the **evolutionary and ecological processes that shaped current freshwater invertebrate biodiversity**. I employ **molecular** methods to define species borders, reconstruct time-scaled phylogeography, and trace the **evolutionary drivers of observed diversity**.

My current project is centred on the **exceptional crustacean species flock in ancient Lake Ohrid**. Utilizing **morphological** data alongside advanced **transcriptomics** and **phylogenomics**, the goal is to **uncover the evolutionary history, speciation timeline, and adaptive drivers behind this critical endemic system**. The research provides crucial context for the conservation of irreplaceable aquatic biodiversity and broaden the knowledge about speciation in ancient lakes. Except of that I'm managing several projects focused on uncovering biodiversity using molecular methods, mostly within **the Polish Barcode of Life Initiative** (<https://www.polbol.uni.lodz.pl/>).

Within my work I have a wide network of collaborations, the most important partners: **Salzburger Lab, Zoology, University of Basel, Switzerland**; **University of Burgundy, France**; **Slovak Academy of Science, Slovakia**; **Hydrobiological Institute – Ohrid, North Macedonia**.

Selected publications

2015 *The legacy of a vanished sea: a high level of diversification within a European freshwater amphipod species complex driven by 15 My of Paratethys regression* [\[link\]](#)

2021 *Fuzzy species borders of glacial survivalists in the Carpathian biodiversity hotspot revealed using a multimarker approach* [\[link\]](#)

2019 *DNA barcode reference libraries for the monitoring of aquatic biota in Europe: Gap-analysis and recommendations for future work* [\[link\]](#)

Research grants

Principal Investigator: 2 grants: NCN

Co-Investigator: 8 grants: NCN, MNiSW, The European Commission's HORIZON Europe

International research stays

Switzerland, Basel, University of Basel, Institute of Zoology, group in the team of Prof. Walter Sazburger

France, Dijon, CNRS - Université de Bourgogne, group of Dr Remi Wattier and Prof. Thierry Rigaud