

README

Name of Dataset: hemolysis

Description

This data package contains data and code supporting the work:
Hemolytic toxicity of *Prymnesium parvum* (B-type) reveals species-specific differences in freshwater fish

The dataset investigates the hemolytic effects of *P. parvum* following the 2022 Oder River disaster. An experiment was performed to determine differences in hemolytic susceptibility between fish species when exposed to *P. parvum*.

Creators or Authors

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Dataset Context

The dataset was collected for the purpose of investigating the hemolytic effects of *P. parvum* on fish red blood cells. Red blood cells from five different fish species were exposed at five different concentrations of *P. parvum* and the remaining blood cells were quantified over four time points. We hypothesized that hemolytic susceptibility to *P. parvum*'s toxic effects would vary depending on the species origin of red blood cells. For full methodological details and interpretation of results, please see the publication <https://doi.org/10.1016/j.ecoenv.2025.118928>.

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File Format and Data Structure

Raw data is stored in one xlsx file named 'data' which includes several variables separated into columns. Variables are described in detail in the accompanying data dictionary. R code for the statistical analysis of the data is stored in one R script named 'script' includes comments to describe each step performed.

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