

# FishMonitor



Water DNA-based monitoring for lakes, rivers and coasts

## Why measure fish biodiversity?

Measuring fish biodiversity has diverse applications:

- **Conservation and Management:** Monitor fish populations, identify threatened species, and implement conservation strategies.
- **Ecological Research:** Study distribution patterns, species composition, and interactions in different habitats.
- **Environmental Impact Assessments:** Assess project impacts on fish biodiversity and ensure compliance.
- **Aquaculture and Fisheries Management:** Monitor species composition, optimize practices, and implement conservation measures.
- **Restoration and Rehabilitation:** Evaluate success of habitat restoration efforts and make informed decisions.

SimplexDNA provides flexible solutions for all of these these applications.

## What can SimplexDNA offer?

Our method can pick up even small traces of genetic material left by organisms in the water, which is called environmental DNA or eDNA.

Using our eDNA analysis we can identify organisms that are present at a given place and time without direct observation. Detection and monitoring with this method is accurate, scalable and low-cost compared to alternatives. Sampling can be carried out by non-experts following a set of simple instructions.

Starting from a filtered water sample, we carry out eDNA metabarcoding and bioinformatic analysis to generate taxonomic assignments, semi-quantitative data and reports. We offer a flexible service from quoting over sampling to final data delivery.

Contact us for a quote. We will be happy to advise on sampling in your individual setting.



[See demo report figure here](#)

# SimplexDNA®

## Service Highlights

- Easy on-site water sampling method (non-expert friendly) with a simple syringe and filter
- Accurate analysis in our Swiss lab
- Suitable for every lake, river, water body
- Confirm the presence of fish species
- Optional: add more taxonomic groups to the analysis to get a comprehensive picture
- Gain semi-quantitative information

## Service Includes

- Sample collection kit for water for self-sampling
- Plan and instructions for sampling
- DNA extraction and sequencing of the 12S gene in our lab
- Bioinformatic analysis for taxonomic assignment and quantifiable DNA signal

[Contact us for a quote](#)



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