



UNIVERSITÀ DI PAVIA

Corso di Dottorato in Scienze della Terra  
e dell'Ambiente

## Stable Isotopes in Freshwater Ecology



**Dr. Fabio Ercoli**

*Researcher, Estonian University of Life Sciences, Estonia*

*Visiting Researcher, University of Jyväskylä, Finland*

**from 21<sup>st</sup> to 25<sup>th</sup> February 2022**

### **Course overview**

- Introduction to stable isotopes
- Stable Isotopes Analyses (SIA) in freshwater ecology
- Diets and trophic level of freshwater consumers
- Samples preparation for SIA
- Laboratory
- Use of SIBER (Stable Isotopes Bayesian Ellipses in R) and MixSIAR (Mixing models Stable Isotopes Analyses in R) models as tools to quantify trophic niches and predator-prey trophic relationships in an ecosystem

### **Prerequisites**

The course is aimed at biologists and ecologists, PhD students, postdocs and researchers who are interested in the application of stable isotopes method for quantifying food webs and trophic relationships in an ecosystem. Basic to moderate knowledge in R is requested.

The course will be held either in English or Italian according to nationalities of students/researchers.

For information and registration please send e-mail to [phd-dsta@unipv.it](mailto:phd-dsta@unipv.it)