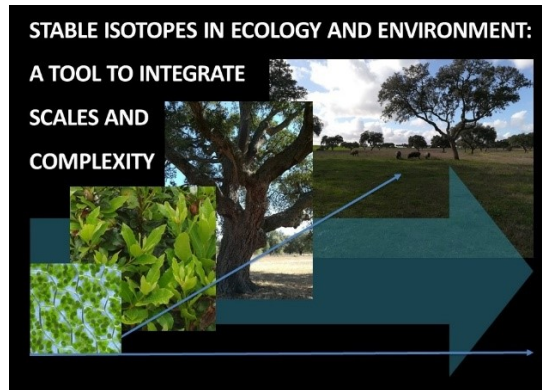


## cE3c Advanced Courses 2021/2022



# Stable isotopes in Ecology and Environment: a tool to integrate scales and complexity

Taught by: Cristina Máguas *et al.* | **November 15-19, 2021@ FCUL**

**Note:** This course is intended to be presential, but if needed (e.g. due to COVID-19 security measures by the time of the course) it may be adapted to be given remotely

### Objectives

This course aims at providing knowledge to allow the use of stable isotopes ratios in diverse ecological areas of research, integrating multidisciplinary approaches together with biochemistry, molecular biology, physiology geochemistry and climate sciences

### General Plan:

- 1) Introduction to stable isotopes ratios as tools to understand global, ecosystem and community level bio/geo cycles;
- 2) Light isotopes: H, N, C, O and S isotopes, geo cycles and ecological significance;
- 3) Sampling and analytical methodologies in stable isotope analysis.

### Deadline for applications: October 15, 2021.

The course is free for a maximum of 8 1st year PhD students in Doctoral programmes at FCUL (e.g. Biology), Biodiversity, Genetics and Evolution (BIODIV UL, UP), Biology and Ecology of Global Changes (BEAG UL, UA) and Sustainability Science. For information of fees for other participants see the programme details.

See the PROGRAMME, how to apply and fees at:

<https://ce3c.ciencias.ulisboa.pt/training/ver.php?id=169>

