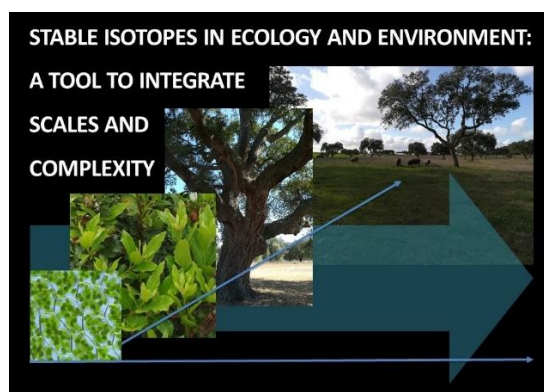


## cE3c Advanced Courses 2019/2020



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

Taught by: Cristina Máguas *et al.* | November 4-8, 2019 @ FCUL

### 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 14, 2019.

The course is free for a maximum of 10 1st year PhD students in the Doctoral programme in Biology (FCUL), Biodiversity, Genetics and Evolution (BIODIV UL, UP) and Biology and Ecology of Global Changes (BEAG UL, UA). For information of fees for other participants see the programme details.

See the PROGRAMME, how to apply and fees at:

<http://ce3c.ciencias.ulisboa.pt/training/ver.php?id=132>



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