



Advanced course on FRESHWATER ECOTOXICOLOGY



Institute of Biomedical Sciences of Abel Salazar (ICBAS)
Faculty of Sciences (FCUP)
Centre of Marine and Environmental Research (CIIMAR)
University of Porto

1-5 March 2010

Aims

This advanced course will cover essential major issues in Freshwater Ecotoxicology, providing updated knowledge on methods and tools used for ecotoxicological assessment of contaminants, including emerging pollutants, at different levels of biological organisation. It is intended for MSc and PhD students, as well as for scientists and other professionals related to environmental sciences and environmental decision making. The course is also opened to the students of the *Master of Environmental Contamination and Toxicology* of ICBAS and FCUP of the University of Porto.

Coordination

Dr. Laura Guimarães, Laboratory of Ecotoxicology, CIIMAR, University of Porto, Portugal

Prof. Dr. Lúcia Guilhermino, Laboratory of Ecotoxicology, ICBAS and CIIMAR, University of Porto, Portugal

Teaching staff

Dr. Carlos Barata, IIQAB, Consejo Superior de Investigaciones Científicas (CSIC), Spain

Dr. Laura Guimarães, Laboratory of Ecotoxicology, CIIMAR, University of Porto, Portugal

Dr. Carlos Gravato, Laboratory of Ecotoxicology, CIIMAR, University of Porto, Portugal

Prof. Lúcia Guilhermino, Laboratory of Ecotoxicology, ICBAS & CIIMAR, University of Porto, Portugal

Programme

This intensive course will consist of a combination of lectures and training sessions including laboratory bioassays, analysis of case studies, and computer sessions for data analysis. All lectures and sessions will be held in English.

Main topics

1. Introduction to ecotoxicology

Basic concepts and general principles

Fate of environmental contaminants in the organism

Bioaccumulation and biomagnification of environmental contaminants

2. Ecotoxicological testing

Standardised ecotoxicological bioassays (algae, invertebrates and fish)

Other laboratorial bioassays

Field approaches

3. Experimental design and data analysis

4. Toxicity mechanisms and methods to detect them

5. Demographic ecotoxicology

Demographic parameters

Population growth models

Life-cycle experiments

Registration, fees and other information

Registration fee: € 500 (includes attendance to all lectures and training sessions, and course documentation).

Reduced fee: € 400 (for members of the following associations upon confirmation of eligibility: Society of Environmental Contamination and Toxicology (SETAC), Iberoamerican Society of Environmental Contamination and Toxicology (SICTA), Sociedade Portuguesa de Ecologia (SPECO), Ordem dos Biólogos (Portugal).

Number of external participants: 10 maximum.

Certificates: certificate of attendance for all the participants; certificate of approval, including the final classification obtained in an written exam at the end of the course (exam only for participants requesting a classification), will be provided upon request at the registration form.

Application: candidates should fill in the *registration form* and send it to Dr. Laura Guimarães either by fax (+351 22 339 0608) or email (lguimaraes@ciimar.up.pt) before the **23rd February 2010**.

Registration: after acceptance by e-mail, candidates will have **5 days to process fee payment** by Bank Transfer (details of Bank Account will be provided in the acceptance e-mail); if the transfer is not processed during this period the acceptance will be cancelled.

Additional information

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FCT Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR



RAMOCS (ERA-AMPERA/0001/2007)

CRABTHEMES (FCT, PTDC/MAR/71143/2006)



ECOTOXLAB

REGISTRATION FORM

Name _____

Title _____

Institution / Company _____

Postal address _____

Postal code _____ Town _____ Country _____

Telephone _____ Fax _____ Email _____

Normal fee (500 €) _____ Reduced fee (400 €) _____

Invoice to

Name _____

Postal address _____

Postal code _____ Town _____ Country _____

NIF / VAT number _____

To be sent to Laura Guimarães (Fax: +351 22 339 0608, email: lguimaraes@ciimar.up.pt) no later than the **23rd February 2010**.