

An integrated approach to marine invertebrate biodiversity: evolutionary and functional adaptations

COST TRAINING COURSE - 2019 EDITION

Chioggia (VE) - September, 9-13, 2019

Marine Biological Station and Didactic Pole of the Department of Biology,
University of Padova

The training school is organized in the framework of a joint agreement of academic cooperation among the Universities of Milan, Padua, Palermo, and Salento (Lecce) and sponsored by the COST European Programme "Maristem" coordinated by the Department of Biology of the University of Padua (IT), the Zoological Society of Italy (UZI) and the Italian Association of Developmental and Comparative Immunology SIICS-IADCI).

Themes

The scientific themes will cover comparative analysis of main adaptive strategies across several invertebrate phyla to raise interest on invertebrate biology and evolution.

Contents (Main taxa, Topics, Models)

Porifera, Cnidaria, Xenacoelomorpha, Platyhelminthes, Rotifera, Echinodermata, Hemichordata, Tunicata.

Morphological and functional adaptations (sensory-motor integration, respiration, nutrition, locomotion and reproduction), life cycles and life histories.

Regeneration, aging, reverse development, stem cells.

Stress responses, immunobiology, self-recognition, chimerism.

Journal clubs setting up: presentations of some recent relevant papers on invertebrate biology with particular reference to stem cells.

Participants will be provided with papers and, gathered in 4-5 groups, will give a presentation illustrating the novelties of the papers.

Language

Lessons will be in English and will consist of lectures, field and laboratory activities and tutorials.

Trainees

Trainees should be engaged in an official research programme as a PhD Student or postdoctoral fellow or employed by, or affiliated to, an institution, organisation or legal entity which has within its remit a clear association with performing research.

Financial support:

A support to travel and accommodation expenses will be given to participants of the COST countries in the form of a grant of 290 euros.

Further information:

website www.maristem.eu

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Field work: The Chioggia location (on the south of the Venice Lagoon) is the teaching pole of the Department of Biology of the University of Padova, where the degree courses in Marine Biology are taught.

Practical work: Palazzo Grassi's rooms and laboratories as well as the Marine Station of the Dept of Biology will be at the school's disposal.

Contributors and lecturers

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