

Fees

The Italian Physiological Society supports the laboratories expenses. The Organizers makes available teaching activities. Lunches are offered by the Organization.

• **ESCPB members** (**3 ESCPBnew members accepted**): the accommodation at Hotel Europa or Hotel Londra is supported by ESCPB (4 nights and 4 breakfasts).

• **Info and costs** at http://www.fisiologiaitaliana.org/sc_fis_IT.php.

Programme

June 17th – 2.30 p.m. Welcome a the DISIT. Seminars on the Environmental Physiology principles and approaches.

June 18th, 19th and 20th - Lab activities with the assistance of researchers and staff from different Universities: Dr. Susanna Sforzini, Caterina Oliveri and Marta Boeri, Univ. del Piemonte Orientale; Dr. Caterina Ciacci, Univ. Urbino; Dr. Rita Fabbri and Teresa Balbi, Univ. Genova; Dr. Sara Buratti, Univ. Bologna).

Laboratory activities

The activities will be carried out in 3 groups, simultaneously in different laboratories. All groups will perform all 1-day activities during the different days:

Activity 1 – Proteomic analysis of mussel *Mytilus galloprovincialis* haemolymph. Electrophoresis of serum proteins, visualization of products, proteomic analysis. (Methodologies: mono- and bi-dimensional electrophoresis, GC/MS).

Activity 2 – The mussel *Mytilus galloprovincialis* as a model organism in Environmental Physiology:

2a) Analysis of immune functional parameters in haemocytes as fagocytic activity, ROS production, lysozyme release. (Methodologies: fluorescence microscopy, spectrophotometry);

2b) Evaluation of metallothionein contents in digestive glands from mussels previously exposed to cadmium (Methodologies: extraction, centrifugation, spectrophotometry).

Activity 3 – The earthworm *Eisenia andrei* as a model organism in Environmental Physiology:

3a) Celomocytes collection, microscope slides preparation and evaluation of lysosome membrane stability (Methodologies. Fluorescence microscopy);

3b) Earthworm cryostat sections, microscope slides preparation and Ca-ATPase activity determination (Methodologies. slides preparation, microscopy observation and image analysis).



**The Italian Physiological Society (SIF) and the
newEuropean Society of Comparative Physiology and Biochemistry
(ESCPBnew)**

invite you at

SIF – ESCPBnew JOINT WORKSHOP on Comparative and Environmental Physiology

PORTONOVO (ANCONA) - SEPTEMBER 19TH, 2013

Comparative and environmental physiology represent major study areas, addressing not simply differences that exist within and between organisms, but also those processes and genes that underlie these physiological differences. They represent an evolutionary and dynamic approach to physiology, and one that may contribute to a new understanding of human physiology in health and disease. Hosting a workshop on this field within its main annual event, the Italian Physiological Society strives to acknowledge and promote comparative and environmental physiology studies. On the other hand, the newEuropean Society of Comparative Physiology and Biochemistry, giving the current Italian Presidency (Prof. Elena Fabbri, Univ. of Bologna) will officially share its aims and interests with the Italian Physiologists. The Joint Workshop wants to promote a fruitful day of science where members of the two different Societies and of both Societies will be involved together.

The Workshop is held **the Portonovo Congress Center, consisting of two hotels (Fortino Napoleonico and Excelsior La Fonte)**. The activities will be carried out as parallel sessions with other disciplines, within the SIF Congress. Official language for the Workshop is English.

I am looking forward to welcoming you at the SIF-ESCPBnew Joint Workshop in Portonovo!!!

Elena Fabbri, ESCPBnew President

**Information, Registration and Hotel Accomodation on the website
of the Italian Physiological Society <http://sif2013.azuleon.org/> -
Deadline Registration and Abstract submission June 30th 2013.**

Workshop fees

A registration fee of 135 euros is requested to the Participants not registered at the SIF Congress. The fee includes the participation to the Joint Workshop activities, the Workshop kit, lunch and coffee breaks of the day Sept 19th. Italian Physiologists regularly registered for the SIF Congress can participate to the Joint Workshop without extra-fees.

Grants

The ESCPBnew makes available **up to ten grants** covering the fee for ESCPBnew members, non members of the Italian Physiological Society. **Requests have to be submitted to the ESCPBnew President at the address elena.fabbr@unibo.it by June 10th, 2013.** Please indicate Joint Workshop Participation as the subject and attach a very short CV including also a putative oral communication or poster title. The content has to be related with the Workshop topics (i.e. comparative and environmental PHYSIOLOGY).

Accommodation

Participants can reserve the Hotel room through this web-site: <http://sif2013.azuleon.org/>. Portonovo is a beautiful small village on the beach. Accompanying persons will take profit of some summer days in an extraordinary niche along the Italian seaside. A few other Hotels are located in Portonovo di Ancona; a wider offer is available in Ancona (including a Hostel at a very convenient price). A shuttle bus will bring participants to Portonovo leaving Ancona in the early morning and going back in the evening.

Workshop Program

8.30 – 8.45 Welcome - Elena Fabbri (President of the ESCBPnew and SIF Board Member) and Carlo Reggiani (President of the SIF)

Session 1 – 8.45 - 10.30

8.45 – 9.30 Lecture 1 – Luana Paulesu (Un Siena, I) - In vitro effects of environmental Endocrine Active Substances in human placenta

9.30 – 10.30 Oral Communications (nr 4)

Session 2 – 11.00 - 13.00

11.00 – 11.45 Lecture 2 – John Craft (Glasgow Caledonian Un, UK) - Comparing the regulation of gametogenesis and spawning in bivalve molluscs

11.45 – 13.00 Oral Communications (nr 5)

Session 3 - 15.30 – 17.30

15.30 – 16.15 Lecture 3 - Roy Weber (Un of Aarhus, DK) - Hemoglobins: Models of Physiological Adaptation, with special reference to O₂ availability and temperature

16.15 – 17.30 Oral Communications (nr 5)

Closing Remarks



**The Italian Physiological Society (SIF) and the
new European Society of Comparative Physiology and Biochemistry
(ESCPBnew)**

invite you at

THE SCHOOL OF ENVIRONMENTAL PHYSIOLOGY

Alessandria (Italy) - June 17-20, 2013

The Course strives to transfer to young researchers knowledge about principles and methodological approaches of Environmental Physiology addressed to study the responses and adaptation of animals exposed to different or changing environments. The course will be held **in Alessandria, at the Department of Science and Technological Innovation (DISIT) – Università del Piemonte Orientale, sede di Alessandria Viale Teresa Michel n 11 - 15121 Alessandria on June 17-20, 2013.**

The School is coordinated by Prof. Elena Fabbri, Università di Bologna (elena.fabbri@unibo.it) in collaboration with Prof. Laura Canesi (Università di Genova) and Prof. Aldo Viarengo (Università del Piemonte Orientale, Alessandria) who makes available his nicely equipped research laboratories. This will ensure participants having an optimum space to work and follow all the proposed experiences.

Participants

The course is open to **15 young researchers** (PhD, post-doc, etc) of **age lower than 35 years**. ESCPBnew provides grants covering the Hotel accommodation for 3 ESCPBnew members or fellows from their lab (request to elena.fabbri@unibo.it by May 15th, 2013). In case of selection, preference will be given to non Italian members.

Request of Participation

All participants are requested to send an application accompanied by a short CV (max 4000 characters) to elena.fabbri@unibo.it. In case the requests will exceed places available, the organizers will select the candidates according to their age, CV and balance among Countries.

Deadline: May 15th, 2013.