

6 June - Organism-Environment Interaction

- 8.30 Summer School Opening

Chairs: *Manuela Reborá, Silvana Piersanti*

- 9.00 Summer school work start (PhD Course Coordinator Manuela Reborá)
- Coevolutionary dynamics in biological interactions
 - 9:15 - **Adolfo Cordero-Rivera** - '*Sexual conflict in aquatic insects: an ecological perspective*' - Universidade de Vigo, ECOEVO Lab., E.E. Forestal, Campus Universitario, 36005 Pontevedra, Spagna
 - 10:15 - **Paolo Masini** - '*Host location in the parasitoids of the genus Sclerodermus*' - Dipartimento di Scienze Agrarie, Alimentari e Ambientali, Università degli Studi di Perugia
- 10:45 coffee break and poster session
 - 11:30 - **Régis Cereghino** - '*What drives ecosystem resistance to drought in the Neotropics? A test using tank-bromeliads*' - Biodiversity & Environment Research Center (CRBE), CNRS, University Toulouse Paul Sabatier, Toulouse, France
 - 12:30 - **Massimiliano Scalici** - '*Plastics in running waters: a fluent issue of concern*' - University Roma Tre, Department of Sciences, Viale Guglielmo Marconi 446, 00146 Roma, Italy
- 13.00 Lunch and poster session

Chairs: *Antonia Concetta Elia, Gianandrea La Porta*

- Bridging Theory and Practice in Environmental Research
 - 14:30 - **Paolo Pastorino** - '*Global change and environmental pollution in aquaculture: emerging issues in the 21st century*' - Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta, Torino

- 15:00 - **Régis Cereghino** - '*River macroinvertebrates as indicators of ecosystem health*' - Biodiversity & Environment Research Center (CRBE), CNRS, University Toulouse Paul Sabatier, Toulouse, France
- 15:30 - **Luca Convito** - '*Management of Invasive Alien Species in Umbria*' - Sezione Tutela Patrimonio Ittico e Pesca Sportiva, Regione Umbria
- 16:00 - **Adolfo Cordero-Rivera** - '*Successful reintroduction of the European pond turtle (*Emys orbicularis*) with a small number of founders Results from a 20-years small-scale experiment*' - Universidade de Vigo, ECOEVO Lab., E.E. Forestal, Campus Universitario, 36005 Pontevedra, Spagna
- 17.00 Closure of works

7 June - Vital Processes and Human Well-being

- 8.30 Summer School Opening

Chairs: Giovanna Traina, Antonio Michelucci, and Luigi Catacuzzeno

- **Muscle and neuron physiology**
 - 09:15 - **Robert T. Dirksen** "*Role of Orai1 in tubular aggregate myopathy*" (Dept. of Pharmacology and Physiology - University of Rochester Medical Center)
 - 10:15 - **Simona Boncompagni** "*Tubular Aggregates and their possible role in skeletal muscle during ageing*" - Dept. of Neuroscience, Imaging and Clinical Sciences - University G. d'Annunzio of Chieti-Pescara
- 10:45 coffee break and poster session
 - 11.30 - **Antonio Michelucci** "*Store-operated Ca²⁺ entry as a key mechanism in Duchenne muscular dystrophy*" - Dept. of Chemistry, Biology and Biotechnology - University of Perugia

- 12.00 - **Guglielmo Sorci** "*Use of the immunomodulatory Sertoli cells to treat Duchenne muscular dystrophy*" - Dept. of Medicine and Surgery, University of Perugia
- 12.30 - **Rosario Amato** "*The retina as a tool to study the neurovascular physiology*" - Dept. of Biology, University of Pisa
- 13:00 Lunch and poster session

Chairs: *Ermanno Federici*

- **Sciences transition from the benchtop to the desktop**
 - 14:30 - **Daniele Pietrucci** "*Bioinformatics for computational genomics: characterizing prokaryotes and eukaryotes*" - Department for Innovation in Biological, Agro-Food and Forest Systems University of Tuscia, Viterbo
 - 15:00 - **Davide Chiasserini** "*Next-generation proteomics: an overview of techniques and computational approaches*" - Dipartimento di Medicina e Chirurgia, sezione di Fisiologia e Biochimica, Università di Perugia
 - 15:30 - **Davide Petri** "*Systematic reviewlution: artificial intelligence for evidence synthesis*" - Dipartimento Ambiente e Salute, Istituto Superiore di Sanità
- 16:15 Closure of Summer School works