

25 June 2025 Conservation biology

WELCOME AND INTRODUCTION 14.00–14.10: greetings from organizers

SESSION 1

14.10–14.40 **Invited speaker:** Francesco Ferretti, Department of Fish and Wildlife Conservation, Virginia Tech.

AI for marine conservation.

Oral presentations

Chairs: Giorgia Gioacchini and Federica Carducci

14.40–14.55 **Revealing the Role of Toll-Like Receptor genes in Response to Rising Sea Water Temperature in the Antarctic fish *Trematomus bernacchii*.**

Shaghayegh Kholdihaghighi*, University of Padova & Ca' Foscari University of Venice, Italy.

14.55–15.10 **Coping strategies of the Antarctic fish *Trematomus bernacchii* to marine heatwaves simulation.**

Elisabetta Piva*, University of Padova, Italy.

15.10–15.25 **Exploring the role of stress granules in *Squalius cephalus* during PFAS-induced oxidative stress.**

Laura Drago*, University of Padova, Italy.

15.25–15.40 **Priming techniques as a tool to ameliorate bivalves' tolerance to environmental stressors.**

Deborah Cesaroni*, Polytechnic University of Marche, Italy.

15.40–15.55 **Precision-Cut Tissue Slices (PCTS) as a sustainable and innovative ex vivo approach to assess the impact of emerging pollutants.**

Michela Panni*, Polytechnic University of Marche, Italy.

DIGITAL BREAK

SESSION 2

16.10–16.40 **Invited speaker:** Matteo Zarantoniello, Polytechnic University of Marche, Italy.

A natural microencapsulated antioxidant to counteract microplastic adverse effects in fish safeguarding the aquaculture sector

Oral presentations

Chairs: Stefania Gorbi and Maura Benedetti

16.40–16.55 **Examining the liver's role in regulating the circadian rhythm in female swordfish**

Giulia Chemello, Polytechnic University of Marche, Italy.

16.55–17.10 Animals, environment and microbiota: how microorganisms are changing the way we think about biodiversity conservation.

Giulio Galla, Centre for Research and Innovation, Fondazione Edmund Mach, San Michele All'Adige, Italy.

17.10–17.25 Environmental contaminants and embryo development in *Caretta caretta* from two different sites of Mediterranean Sea.

Erica Trotta*, Polytechnic University of Marche, Italy.

17.25–17.40 Tracking population connectivity: mitogenome phylogeography of *Ixodes ricinus* across Europe and North Africa

Alessandro Nota*, University of Pavia, Pavia, Italy.

DIGITAL BREAK

Poster presentations

Chairs: Federica Carducci and Giorgia Gioacchini

17.50–17.55 Genetic analysis for the conservation of secondary grasslands in central Italy

Chiara Spinsante*, Polytechnic University of Marche, Italy.

17.55–18.00 *Prdx4* downregulation as a protective lipid-mediated response to PFAS exposure in *Squalius cephalus* kidney.

Sara Pacchini*, University of Padova, Italy.

18.00–18.05 The low-density lipoprotein receptor gene family: trying to reconstruct the evolutionary history in Chordata.

Alessandro Orsini*, Polytechnic University of Marche, Italy.

18.05–18.10 Genetic structure analysis of the genus *Chamelea* in the whole Mediterranean basin and beyond.

Francesca Costante*, Polytechnic University of Marche, Italy.

18.10–18.15 Let it Bee, defending native *Apis mellifera ligustica* from hybridization.

Elisa Carotti*, Polytechnic University of Marche, Italy.

18.15 Closing remarks

26 June 2025 **Repetitive DNA**

WELCOME AND INTRODUCTION 13.00–13.10: greetings from organizers

13.10–13.40 **Invited speaker:** Francisco Sassi, Southwest University, Chongqing, China and Australian Amphibian and Reptile Genomics Initiative (AusARG).

The role of satellite DNAs in multiple sex chromosome evolution

Oral presentations

Chairs: Eva Šatović Vukšić and Maria Assunta Biscotti

13.40–13.55 **Genomic landscape of repetitive DNAs in Neotropical electric fishes.**
Adauto Lima Cardoso, Universidade Estadual Paulista, Brazil.

13.55–14.10 **Satellite DNA variation in species of the *Anopheles gambiae* complex provides new insights into mosquito evolution and vector biocontrol.**
Jiangtao Liang, Virginia Polytechnic Institute and State University, Virginia, USA.

14.10–14.25 **Transposable elements triggered the genome diversification of Sigmodontinae rodents (Rodentia: Cricetidae).**
Camila do Nascimento Moreira, Universidade Federal de Mato Grosso do Sul, Brazil.

14.25–14.40 **Dispersed repeats in the *C. merolae* genome.**
Valentina Rudenko, Research Center of Biotechnology of the Russian Academy of Sciences, Russia.

DIGITAL BREAK

Poster presentations

Chair: Elisa Carotti and Federica Carducci

14.50–14.55 **Genome dynamics in Brachycera (Diptera): Evidence from heterochromatin organization, sex chromosome variation and rDNA localization.**
Rhavenna Thais Alves-Gomes*, Sao Paulo State University, Brazil.

14.55–15.00 **Heterochromatin expansion and repetitive element bursts drive genome enlargement in the Noctuid moth *Acyclania tenebrosa*.**
Ana Elisa Gasparotto*, Sao Paulo State University, Brazil.

15.00–15.05 **Satellite DNAs in the *Bombyx mori* and *B. mandarina* genomes: relationship with transposable elements and low strain differentiation.**
Diogo C Cabral-de-Mello, Universidade Estadual Paulista, Brazil.

15.05–15.10 **Comparative analysis of TE distribution in autosomes and sex chromosomes of six Squamate species.**
Claudia Palladinelli*, Polytechnic University of Marche, Italy.

15.10–15.15 **Comparing transcriptional activity of transposable elements between *Xenopus tropicalis* and *Xenopus laevis* during embryonic development.**

Natasha Albanese*, Polytechnic University of Marche, Italy.

15.15–15.20 **Unlocking the Secrets of Thermal Stress: Transposable Elements in *Trematomus bernacchii*.**

Edith Tittarelli*, IUSS Pavia and Polytechnic University of Marche, Italy.

DIGITAL BREAK

15.40 Award Session

Chairs: Eva Šatović Vukšić and Maria Assunta Biscotti

15.50 Conclusions and remarks