



2° Workshop SETAC ITALIAN LANGUAGE BRANCH

Roma, 11 Ottobre 2023

ospitato da



Sala Marconi

Consiglio Nazionale delle Ricerche, Piazzale Aldo Moro 7

Workshop in presenza e on-line

<https://meet.goto.com/781992141>

Sessioni

A Ecological and human health risk assessment

B Ecotoxicology and stress ecology: from molecules to organisms up to population and ecosystem levels

C Environmental monitoring and exposure assessment including policy

Programma preliminare

9.30 - 10.00 **Registrazione e ritiro badge**

10.00 – **Saluti di benvenuto del Presidente della SETAC Europe, Bruno Campos**. A seguire daranno inizio ai lavori **Paola Grenni (IRSA-CNR, ente ospitante)** e **Ilaria Corsi (Università di Siena, Presidente della SETAC ILB)**

10.15 – 11.15

Sessione A Ecological and human health risk assessment

Chairs: Claudia Vaj, Stefania Marcheggiani

10.15- **Laura Mancini (ISS)**. Environmental risk assessment within the Advisory Committee for Veterinary Medicinal Products

10.30- **Angela Sarni (ISPRA)**. Environmental criticality: an expected or ongoing event can lead to potentially dangerous conditions for the environment. Intervention examples to prevent and/or mitigate environmental impacts.

10.45- **Marco Evangelista (Univ. Insubria)**. *In silico* Prediction of Thyroid Disruption-related endpoints: state-of-the-art analysis of the existing QSARs.

11.00- **Ilenia Bravo (Univ. Cassino e del Lazio Meridionale)**. The Environmental Impacts in Aquaculture Production, Current Perspectives and Future Challenges.

11.00-12.15

Sessione B Ecotoxicology and stress ecology: from molecules to organisms up to population and ecosystem levels (1st part)

Chairs: Maria Maisano, Andrea Binelli

11.15- **Maria Cristina Fossi (Univ. Siena)**. Impacts of contaminants of emerging concern on Mediterranean biodiversity: the role of the University of Siena in the "Zero Pollution" Spoke 2 of NBFC.

11.30- **Teresa Balbi (Univ. Genova)**. Early larval stages of the marine bivalve *Mytilus galloprovincialis* as a model for studying the possible impact of emerging contaminants.

11.45- **Silvia Franzellitti (Univ. Bologna)**. Molecular physiology of marine organisms under climate changes and emerging anthropogenic threats.

12.00- **Tiziana Cappello (Univ. Messina)**. Impact of the anti-inflammatory dexamethasone on the cellular pathways of mussel *Mytilus galloprovincialis* under environmental scenarios.

12.15 – 13.00 **Premio giovani pitch (3 min ciascuno)**

1. **Marco Fossati (Ist. Ricerche Farmacologiche Mario Negri)**. Presence of pharmaceuticals and other emerging contaminants in different substrates used in agriculture as fertilizer

2. **Teresa Chianese (Univ. Federico II Napoli)**. Glyphosate activation of Estrogen Receptors α and β in human cell line PNT1A

3. **Patrizia Romano (Univ. Siena)**. The ABC response of *Halomicronema metazoicum* (Cyanobacteria) to ocean acidification scenarios

4. **Lorenzo Minoia (Univ. Siena)**. Examining of persistent organic pollutants (POPs) in stranded *Grampus griseus* specimens on Italian coasts.

5. **Letizia Iuffrida (Univ. Bologna)**. Assessing the Accumulation of Pharmaceuticals and Pesticides in *Mytilus galloprovincialis* farmed along the Northwestern Adriatic Sea: Influence on Gene Transcription

6. **Ilaria D'Aniello (Univ. Padova)**. Physiological and behavioral responses of the sea urchin *Arbacia lixula* from volcanic CO₂ vents

7. **Riccardo Sbarberi (Univ. Milano)**. Plastic contamination in water and sediments of four Po River tributaries (Northern Italy)

8. **Isabella Calattini (Univ. Siena)**. Development of a holistic approach for river health assessment: from bioindicators to the ecosystem

9. **Viviana Di Matteo (Univ. Federico II Napoli)**. Lake Avernus has turned red: bioindicator monitoring unveils the secrets of "Gates of Hades"

10. **Ilaria Ceciarini (Univ. Siena)**. A preliminary assessment of the potential adverse effects of organochlorines on the success of *Caretta caretta* (Linnaeus, 1758) hatchling in Tuscan nesting events (Italy).

11. **Laura Giovanetti (Univ. Siena)**. A complementary approach based on contaminant analysis, biomarker responses and behavioural performances to investigate the toxicological status of *Parus major* from Veneto region

12. **Verdiana Vellani (Univ. Trieste)**. Combined effects of long-term exposure to copper and heatwaves on the reef-forming serpulid *Ficopomatus enigmaticus* through a biomarker approach

13. **Ifra Ferheen (Univ. Camerino)**. Detection of ESBP-producing *Klebsiella spp.*, adhering plastic debris in Bracciano Lake

14. **Edoardo Pietropoli (Univ. Padova)**. A comparative study of acute and delayed toxicity of perfluoroalkyl substances (PFAS) and their binary mixtures in *D. magna* and *R. subcapitata*

13.00 – 15.00 Sessione Posters (virtuale) e pausa pranzo

Posters

1. **Ginevra Moltedo (ISPRA)**. Preliminary assessment of biological effects of contaminants in *Mullus barbatus* within the scope of Marine Strategy and IMAP-UNEP monitoring
2. **Agata Di Noi (Univ. Siena)**. Ecotoxicological health status of honey bee colonies using a complementary approach based on biomarker responses, proteomics and honey analysis
3. **Silvia Simonetti (Univ. Siena)**. Genome-wide identification of ATP-binding cassette (ABC) transporters and future applications in studies on adaptation to ocean acidification (OA) in the marine polychaete *Platynereis dumerilii*
4. **Riccardo Sbarberi (Univ. Milano)**. Plastic contamination in water and sediments of four Po River tributaries (Northern Italy)
5. **Jasmin Rauseo (ISP-CNR)**. Phenolic endocrine-disrupting compounds (PEDCs) and polycyclic aromatic hydrocarbons (PAHs) in Arctic Marine Sediments (Svalbard Islands, Norway)
6. **Tatiana Rusconi (Univ. Siena)**. Environmental safety of nanocellulose: an in vivo acute study with marine mussels *Mytilus galloprovincialis*
7. **Francesca Maresca (Univ. Napoli Federico II)**. Antibody validation through Immunohistochemistry and Western Blot in affected marine vertebrates and invertebrates of the Mediterranean Sea
8. **Ludovica Saccà (CREA-AA)**. Factors influencing the distribution of antibiotic-resistant genes in honey bee beneficial bacterial symbionts
9. **Olga Faraponova (ISPRA)**. *Tigriopus fulvus* as a bioassays target species: deepening of the response acute toxicity
10. **Gianluca Pirani (ISPRA)**. Evaluations on the feasibility of bioremediation applied to securing of natural occurring asbestos (NOA)
11. **Valeria Ancona (IRSA-CNR)**. Plant-assisted bioremediation for recovering a multi-contaminated soil by using *Brassica napus*
12. **Alessandra Narciso (IRSA-CNR)**. Ecological multidisciplinary studies for bioremediation of contaminated water and soils

15.00 Ripresa dei lavori

15.00 – 15.45

Sessione B Ecotoxicology and stress ecology: from molecules to organisms up to population and ecosystem levels (2nd part)

Chairs: Maria Maisano, Andrea Binelli

15.00- **Giulia Cesarini (Univ. RomaTre)**. *Hydra vulgaris* assay as early warning system to evaluate teratogenic risk in freshwaters.

15.15- **Camilla Della Torre (Univ. Milano)**. A multidisciplinary approach to assess the eco-safety of biogenic matrices for agricultural application.

15.30- **Maria Concetta Eliso (Univ. Messina)**. Development of an Adverse Outcome Pathway to understand the mechanism of action of amino-modified polystyrene nanoplastics during the embryogenesis of *Ciona robusta*.

15.45- **Stefano Magni (Univ. Milano)**. From plastics to rubberized materials: a new line of research on the ecotoxicity of tire particles.

16.00 – 17.30

Sessione C Environmental monitoring and exposure assessment including policy

Chairs: Paola Grenni, Elena Romano, Ginevra Moltedo

16.00- **Federica Cacciatore (ISPRA)**. Imposex phenomenon in coastal and transitional waters.

16.15- **Bruno Notarnicola (Univ. Bari)**. Application of UAV platforms and sensors to environmental monitoring: design of UAV based operational protocol for multi-relief monitoring in urban ecosystem.

16.30- **Emanuela Pace (ISPRA)**. Pesticides in surface and groundwater - Italian monitoring data 2020.

16.45- **Camilla Puccinelli (ISS)**. Diatoms as rapid indicators of environmental changes: twenty years of research and future perspectives.

17.00- **Paolo Rinaldi (ISPRA)**. The integration of site reclamation and environmental damage disciplines as a key strategy for environmental management upgrade.

17.15- **Gianluca Maschio (ISPRA)**. Pesticide Monitoring Information System (SIMP): data flow and information management.

17.30- **Assegnazione premio giovani**

18.00- **Conclusione dei lavori e saluti**

Comitato scientifico ed organizzatore

Ilaria Corsi (Presidente ILB, Università di Siena)

Stefania Marcheggiani (vice-Presidente ILB, ISS)

Silvia Casini (Presidente fino al maggio 2023 ILB, Università di Siena)

Claudia Vaj (External Advisor ILB, Corteva Agriscience)

Paola Grenni (External Advisor ILB, IRSA-CNR)

Federica Cacciatore (Membro del Council della SETAC ILB, ISPRA)

Ginevra Moltedo (Membro del Council della SETAC ILB, ISPRA)

Camilla Puccinelli (Membro del Council della SETAC ILB, ISS)

Massimiliano Scalici (Membro del Council della SETAC ILB, Università Rome Tre)

Rome, 11th October 2023
<https://italianbranch.setac.org/events/>

2nd Workshop
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Italian Language Branch

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