



1st International Summer School in Bioremediation of Aquatic Environments

October 7th - 10th 2025



Stazione Zoologica Anton Dohrn,
Via Ferdinando Acton, 55 Naples - Italy

- Explore microbial solutions for cleaner aquatic environments
- Learn from global experts
- Join hands for sustainable ecosystems

NEW DEADLINE 8th SEPTEMBER



Contact: ssbiorem1@gmail.com



Final Program

7th October 2025 (Location: Stazione Zoologica Anton Dohrn, Via Acton 55, Napoli)

Day 1: Bioremediation of aquatic environments: why, what, how?

8.30 – 9.00 Registration of Participants

Session Chair: Lucia Barra

9.00 – 9.15 Donatella de Pascale, Welcome to the BLUBIO Department and Summer School overview

9.15 – 9.45 Eduardo Ammendola (Impact of pollutants on neurologic and mental health in childhood: clinical questions)

9.45 – 10.15 Anna Crispo (Environmental exposure and cancer rate: analytical data overview)

10.15 – 10.45 Luigi Montano (The role of reproductive biomarkers in early environmental impact assessment on human health. EcoFoodFertility Project)

10.45 – 11.15 Coffee break

11.15 – 11.45 Renata Denaro (Hydrocarbonoclastic bacteria for the marine cleanup and monitoring)

11.45 – 12.15 Mirella di Lorenzo (An insight into bioelectrochemical systems for bioremediation and energy harvesting)

12.15-13:00 Francesco Regoli (Emerging contaminants and ecotoxicology: from molecular mechanisms to risk assessment)

13.00 – 14.30 Lunch

Practical Session

14.30-17.00 Example of bioremediation procedure: Set-up of a microcosms experiment.

(Pietro Tedesco – Carmine Buonocore – Christian Galasso)

17.00 – 18.30 Possibility for “SHOT-talks” (5-10 min presentations) by interested participants (first group), and poster session

Social event (Not included in the registration fee)

18.30 Visit to the Castel dell'Ovo and aperitif



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8nd October 2025 (Location: Stazione Zoologica Anton Dohrn, Via Acton 55, Napoli)

Day 2: Bacteria, fungi and microalgae in bioremediation processes

Session chair: Pietro Tedesco

9.00 – 9.30 Anna Barra Caracciolo (Biodegradation and Bioremediation of emerging contaminants)

9.30 – 10.00 Laura Vitale (Innovative approaches in using of bacteria for bioremediation)

10.00 – 10.45 Alessandra Norici (Microalgae-based strategies for wastewater remediation)

10.45 – 11.15 Coffee break

11.15 – 11.45 Sergio Balzano (Microalgae from polluted environments as tools for bioremediation)

11.45 – 12.15 Angela Sardo (Heavy metals bioremediation using microalgae)

12.15 – 13.00 Giovanna Cristina Varese (Fungi in soil and water remediation)

13.00 – 14.00 Lunch

Practical Session

14.00 – 17.00 Isolation of microalgae suitable for bioremediation (**Lucia Barra – Nadia Ruocco – Sergio Balzano – Angela Sardo**)

17.00 – 18.30 Possibility for “SHOT-talks” (5-10 min presentations) by interested participants (first group), and poster session

Social event (Not included in the registration fee)

19.00 Social dinner (to be defined)



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9rd October 2025 (Location: Stazione Zoologica Anton Dohrn, Via Acton 55, Napoli)

Day 3: Innovative approaches in bioremediation

Session Chair: Christian Galasso

9.00 – 9.30 Pietro Tedesco (The potential of Microbial-Induced Calcite Precipitation - MICP - process in bioremediation)

9.30 – 10.00 Bruna Matturro (The role of biomonitoring in biomonitoring interventions: From site characterization to field implementation)

10.00 – 10.30 Erkki Lindberg (Electrochemistry, a “secret” tool to boost bioremediation and other biological processes)

10.30 – 11.00 Coffee break

11.00 – 11.30 Andrea Strazzulli (RePLAY Mining Microbial Dark Matter for PET-Active Enzymes: Unlocking Hidden Biocatalysts for Plastic Degradation and Upcycling)

11.30 – 12.00 Donata Iandolo (Biomaterials for bioremediation)

12.00-13.00 Heinrich Eisenmann (Advanced Monitoring Tools to Evaluate and Prove Contaminant Degradation at Bagnoli)

13.00 – 14.00 Lunch

Practical Session

14.00-17.00 Example of bioremediation procedure: monitoring of microcosms

(Pietro Tedesco – Carmine Buonocore – Christian Galasso)

17.00 – 18.30 Possibility for “SHOT-talks” (5-10 min presentations) by interested participants (first group), and poster session

Social event (Not included in the registration fee)

19.00 Walk for the streets of historical centre of Napoli and Pizza



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10th October 2025 (Location: Stazione Zoologica Anton Dohrn, Via Acton 55, Napoli)

Day 4: Bioremediation experiences and performance monitoring

Session Chair: Eugenio Rastelli

9.00 – 9.30 Daniela Coppola (Innovative approaches in marine sediment bioremediation: introducing the LIFE SEDREMED PROJECT)

9.30 – 10.30 Emanuela Buschi (The LIFE SEDREMED PROJECT: major achievements and lessons learned)

10.30 – 11.00 Coffee break

11.00 – 12.00 Alessia Amato (Towards Sustainable Sediment Remediation through LCA: The LIFE SEDREMED Experience)

12.00 – 12.30 Stefano Papirio (Innovative biological treatment for nitrogen removal from wastewater)

12:30- 13:00 Final remarks and best poster and best presentation award assignment (free lunch)



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