

XXVI Congresso AIOL
Associazione Italiana di Oceanologia e Limnologia
27 giugno – 1 luglio 2022
S. Michele all'Adige – Conferenza in Formato Ibrido

Esperienze e approcci innovativi per la conoscenza e la salvaguardia degli ecosistemi acquatici



Programma

I lavori congressuali saranno preceduti da una
Short Summer School – Corso base di R
Lunedì 27 giugno 14:00 - 18:00 e martedì 28 giugno 9:00 – 12:30
Evento esclusivamente ONLINE:
Il corso è organizzato con la collaborazione di Successione Ecologica
<https://www.successioneecologica.it/eventi/corso-base-di-r/>



Martedì 28 giugno

Sala Conferenze, Palazzo Ricerca e Conoscenza (PRC)

09.00 – 14.00 REGISTRAZIONE

14.00 – 14.45 CERIMONIA DI APERTURA

14:45-15:30 RELAZIONE SU INVITO ONLINE: Fabio Trincardi, **Mario Sprovieri: SNAPSHOT: A synoptic assessment of temporary-decreased human pressures on key Italian marine areas**

Sessione speciale: Effetti della pandemia da SARS-CoV2 sugli ecosistemi acquatici. CHAIR: Jacopo Chiggiato, Giuseppe Scarcella, Michela Rogora

1. 15:30-15:45 **Carmen Ferrarini**, Gianpaolo Coro, Anna Nora Tassetti, Enrico Nicola Armellon, Jacopo Pulcinella, Mario Sprovieri, Fabio Trincardi, Giuseppe Scarcella: COVID-19 lockdowns reveal the resilience of Adriatic Sea fisheries to forced fishing effort reduction.

2. 15:45-16:00. **Magda Di Leo**, Santina Giandomenico, Enza Quinci, Nadia Sabatino, Mario Sprovieri. Response of the Taranto Gulf (Ionian Sea, Italy) to the COVID-19 lockdown.
3. 16:00-16:15. **Michela Rogora**, Sandra Steingruber, Aldo Marchetto, Rosario Mosello, Paola Giacomotti, Arianna Orru', Gabriele A. Tartari, Rocco Tiberti. COVID-19 lockdown affected atmospheric deposition and surface water chemistry over an Alpine area.
4. 16:15-16:30. **Simona Retelletti Brogi**, Gianpiero Cossarini, Giancarlo Bachi, Cecilia Balestra, Elisa Camatti, Raffaella Casotti, Giovanni Checcucci, Simone Colella, Valtere Evangelista, Federico Falcini, Fedra Francocci, Toni Giorgino, Francesca Margiotta, Maurizio Ribera d'Alcalà, Mario Sprovieri, Stefano Vestri, Chiara Santinelli: Evidence of Covid-19 lockdown effects on riverine dissolved organic matter dynamics provides a proof-of-concept for needed regulations of anthropogenic emissions.

16:30-16:45 COFFEE BREAK

5. 16:45-17:00. **ONLINE: Malek Belgacem**, Fabrizio Aubry, Jacopo Chiggiato, Elisa Camatti, Francesco Aciri, Marco Pansera, Giacomo Falchetta. Using machine learning to predict the effect of the 2020 COVID-19 lockdown on the biogeochemical properties of the Venice lagoon at selected sites.
6. 17:00-17:15 **ONLINE:** Petrizzo A., Barbanti A., Barfucci G., Bastianini M., Biagiotti I., Centurelli M., Chavanne R., Codarin A., Costantini I., Dadić V., Falceri F.M., Falkner R., Farella G., Felli M., Ferrarin C., Folegot T., Gallou R., Galvez D., Ghezzi M., Leonori I., Menegon S., Mihanović H., Muslim S., Pari A., Pari S., **Picciulin M.**, Pleslić G., Radulović M., Rako-Gospić N., Sabbatini D., Soldano G., Tegowski J., Vukadin P., Zdroik J. and Madricardo F.: Underwater noise levels in the Northern Adriatic Sea during the COVID-19 pandemic period.
7. 17:15-17:30. **ONLINE: Giuseppe Scarcella**, Silvia Angelini, Enrico Nicola Armelloni, Ilaria Costantini, Andrea De Felice, Stefano Guicciardi, Iole Leonori, Francesco Masnadi, Martina Scanu, Gianpaolo Coro. The potential effects of COVID-19 lockdown and the following restrictions on the status of eight target stocks in the Adriatic Sea.
8. 17:30-17:45. **ONLINE: Daniele Cassin**, Enza Quinci e Mario Sprovieri: Effects of the lockdown during Covid-19 Pandemic on the distribution of trace metals and PAH in the Venice Lagoon.
9. 17:45-18:00. **ONLINE:** Alba L'Astorina, **Rita Giuffredi**, Laura Criscuolo, Antonella Petrocelli. Knowledge co-construction by citizens and researchers to create a SNAPSHOT of the marine environment during and after the Covid-19 lockdown.

Mercoledì 29 giugno

Sala Conferenze, Palazzo Ricerca e Conoscenza (PRC)

8:30-9:15. RELAZIONE SU INVITO ONLINE: Mariangela Ravaioli Presentation Volume LTER: The Italian network for long-term ecological research - The study of biodiversity and changes. Curators Capotondi L., Ravaioli M., Acosta A., Chiarini F., Lami A., Stanisci A., Leone Tarozzi L., Mazzocchi M.G.

Sessione speciale: Gli studi ecologici di lungo termine per la comprensione delle risposte degli ecosistemi acquatici agli impatti antropici e climatici. CHAIR: Giuseppe Denti (ONLINE:) e Silvia Pulina

1. 9:15-9:30. **Ulrike Obertegger:** Light transparency and chlorophyll-a influence the temporal and spatial differences of the under-ice microbiome.
2. 9:30-9:45. **Barbara Leoni,** Veronica Nava, Claudia Dresti, Michela Rogora: Lake oxygen and climate warming: the deep subalpine lakes in a global context.
3. 9:45-10:00. **Gary Free,** Mariano Bresciani, Monica Pinardi, Stefan Simis, Xiaohan Liu, Clément Albergel and Claudia Giardino: The European double heatwave in 2019: Chlorophyll-a response moderated by lake depth and trophic state.
4. 10:00-10:15. **Angela Boggero,** Silvia Zaupa, Michela Rogora, Daniele Paganelli, Riccardo Fornaroli: High altitude freshwaters: macroinvertebrates to the rescue.
5. 10:15-10:30. **Domenico D'Alelio,** Daniele Bellardini, Giampaolo Zampicini, Ferenc Jordan, Roberta Congestri, Luca Russo: From metabarcoding time-series to plankton food webs.

10:30-10:45. COFFEE BREAK

6. 10:45-11:00. **ONLINE: Adriana Zingone,** Lorenzo Longobardi, Laurent Dubroca, Francesca Margiotta, Diana Sarno: Are phytoplankton a good indicator of climatic and anthropic impact? Hints from long term observations in the Gulf of Naples.
7. 11:00-11:15. **ONLINE: Milad Shokri,** Francesco Cozzoli, Ilaria Rosati, Fabio Vignes, Alberto Basset: Long-term water temperature monitoring and the response of amphipod metabolic rate to climate change in Acquatina lagoon.
8. 11:15-11:30. **ONLINE: Maurizio Ingrosso,** Anastasia Miliou, Thodoris Tsimpids, Beatriz Tintorè, Paraskevi Nomikou, Giulia Cipriano, Roberto Carlucci, Francesca Cornelia Santacesaria, Pasquale Ricci: Do scientific dolphin watching influence cetacean's behaviour? The case study of the Levantine Aegean Sea (Eastern Mediterranean Sea).
9. 11:30-11:45. **ONLINE: Gianni Tartari,** Fabrizio Stefani, Valeria Mezzanotte, Alessandro Vittorio, Carlo Carrettini, Gianni Pampurini, Valeria Marchesi, Pietro Genoni: Synchronous trend signals of the water quality of Seveso, Olona and Lambro in half a century.
10. 11:45-11:50. POSTER: **Angela Boggero,** Silvia Zaupa, Daniele Paganelli, Michela Rogora, Marzia Ciampitiello, Lyudmila Kamburska: Effects of spring-summer water levels management on littoral macroinvertebrates of Lake Maggiore (NW, Italy).

11. 11:50-11:55. POSTER **Michela Rogora**, Tommaso Cancellario, Rossana Caroni, Lyudmila Kamburska, Andrea Lami, Dario Manca, Simona Musazzi, Rocco Tiberti: High frequency monitoring (HFM) through in-situ sensors as a support to lake quality evaluation and management: insights from the INTERREG project SIMILE in Lake Maggiore.
12. 11:55-12:00. **ONLINE**: POSTER **Francesco Riminucci**, Lucilla Capotondi, Mariangela Ravaioli, Caterina Bergami. In-situ high resolution turbidity time series to describe storm resuspension events along the North-Western Adriatic shelf .
13. 12:00-12:05. **ONLINE**: POSTER **Anna Maria Bazzoni**, Valeria Manca, Paolo O. Fiori, Giovanni A. Mocchi, Maryam Motavalian, Stefano Muredda, Cristina Nigra, Renata Rossi, Cristina Russu, Maria Grazia Pintus: A longitudinal study on bathing waters: bacterial investigation and *Ostreopsis cf ovata* dynamics combined with environmental variables in a highly touristic area (Sardinia, western Mediterranean) from 2015 to 2021.
14. 12:05-12:10. **ONLINE**: POSTER **Rossana Caroni**, Roberta Piscia, Marina Manca: Multiannual zooplankton carbon and nitrogen stable isotopes for detecting changes in the Lake Maggiore (Italy) pelagic food web.

Sessione speciale: Processi fisici e biogeochimici in ambienti marini e d'acqua dolce: misure e modelli. CHAIR: Claudia Dresti; Diego Copetti; Andrea Fenocchi

1. 12:15-12:40 OPENING TALK: **Andrea Fenocchi**, Claudia Dresti, Diego Copetti; Modelling physical and ecological processes in medium-to-large deep European perialpine lakes: directions of past research and issues to address for the future.

Aula 6202 Palazzo Ricerca e Conoscenza (PRC)

SESSIONE regolare CHAIR: Maria Cristina Bruno, Leonardo Cerasino

1. 9:15-9:30. **Tommaso Righi**, Emanuele Fasola, Mattia Iaia, Vanessa de Santis, Fabrizio Stefani and Pietro Volta: Genetic differentiation between the wild and hatchery Marble trout (*Salmo marmoratus* Cuvier 1829), and limited presence of released hatchery-produced individuals into the wild: a case study from Toce river (Piemonte, Italy).
2. 9:30-9:45 **Mattia Iaia** et al. Preliminary data on the effectiveness of fish passages from Toce River, the second largest tributary to Lago Maggiore.
3. 9:45-10:00. **Gianandrea La Porta**, Sönke Hardersen: Diversity and distribution of dragonflies in Italy, with an updated checklist.
4. 10:00-10:15. **Leonardo Cerasino**, Adriano Boscaini, Camilla Capelli, Fabio Lepori, Giorgio Franzini, Chiara Zampieri, Federica Giacomazzi, Rainer Kurmayer, Masa Zupancic, Tina Elerseck, Nico Salmaso. Occurrence of cyanobacterial toxins in freshwaters of the Alpine region.
5. 10:15-10:30 **Daniele Bellardini***, Luca Russo, Francesco Bolinesi, Luciano Bosso, Angela Buondonno, Ylenia Carotenuto, Rafaella Casotti, Maria Luisa Chiusano, Daniela Cianelli, Francesco Cipolletta, Gabriele Del Gaizo, Marta Furia, Priscilla Licandro, Olga Mangoni, Francesca Margiotta, Maria Grazia Mazzocchi, Marina Montresor, Isabella Percopo, Maria Saggiomo, Diana Sarno, Simona Saviano, Jessica Vannini, and Domenico D'Alelio: Is plankton trophic structure a reliable indicator of the overall ecological efficiency?

10:30-10:45. COFFEE BREAK

6. 10:45-11:00. **Veronica Nava**, Julian Aherne, María B. Alfonso, Ana M. Antão-Geraldes, Katrin Attermeyer, Roberto Bao, Mireia Bartrons, Stella A. Berger, Marcin Biernaczyk, Raphael Bissen, Justin Brookes, David Brown, Giulia Candian, Miguel Cañedo-Argüelles, Moisés Canle, Camilla Capelli, Rafael Carballeira, José Luis Cereijo, Sakonvan Chawchai, Guangjie Chen, Søren T. Christensen, Kirsten S. Christoffersen, Elvira de Eyto, Jorge Delgado, Tyler Dornan, Jonathan P. Doubek, Julia Dusaucy, Oxana Erina, Zeynep Ersoy, Heidrun Feuchtmayr, Fabio Lepori, Maria Luce Frezzotti, Silvia Galafassi, David Gateuille, Vitor Gonçalves, Hans-Peter Grossart, David P. Hamilton, Ted Harris, Külli Kangur, Gökben Başaran Kankılıç, Rebecca Kessler, Christine Kiel, Edward M Krynak, Àngels Leiva-Presa Miguel Matias, Shin-ichiro S. Matsuzaki, Yvonne McElarney, Mark Mitchell, Beata Messyasz, Musa Mlambo, Samuel N. Motitsoe, Caroline Owens, Deniz Özkundakci Solvig Pinnow, Agnieszka Pocięcha, Pedro Raposeiro, Eva-Ingrid Rööm, Federica Rotta, Nico Salmaso, Facundo Scordo, Claver Sibomana, Daniel Siewert, Katarzyna Stepanowska, Chandra Sudeep, Ülkü Nihan Tavşanoğlu, Maria Tereshina, James Thompson, Monica Tolotti, Amanda Valois, Piet Verburg, Brian Wesolek, Gesa Weyhenmeyer, Naicheng Wu, Edyta Zawisza, Lauren Zink, Barbara Leoni: Plastic debris in freshwater systems worldwide.
7. 11:00-11:15. **ONLINE: Simone Zazzini***, Paolo Bello, Agnese Pini, Paolo Monti & Giovanni Leuzzi: Vertical dispersion of microplastics in the marine environment. A modelling approach.
8. 11:15-11:30. **ONLINE: Matteo Loschi***, Simone Libralato, Elisa Camatti, Fabrizio Bernardi Aubry, Domenico D'Alelio. Building weighted networks for plankton communities from semi-quantitative data.
9. 11:30-11:45. **ONLINE: Maria Vittoria Marra**, Elisa Baldrighi, Alberto Barausse, Antonio Calò, Domenico D'Alelio, Emanuela Dattolo, Cristina Mangano, Silvia Morgana, Antonella Petrocelli, Alessandra Pugnetti, Emma McKinley: The Italian chapter of the Marine Social Sciences Network: an opportunity to make a difference in the complex and complicated relationship between society and the sea in the Mediterranean basin.
10. 11:45-11:50 POSTER: **Viviana Di Tuccio****, Luca Russo, Gabriele Del Gaizo, Daniele Bellardini, Francesca Margiotta, Pasquale De Luca, Domenico D'Alelio and the NEREA team: Environmental DNA as a tracer of the origin of sestonic organic matter in coastal systems.
11. 11:50-11:55 POSTER: **Maria Cristina Bruno**, Monica Tolotti, Stefano Brighenti, Francesco Comiti, Lorenzo Brusetti, Andrea Fisher. The project "ROCK-ME: Geochemical response of Alpine Rock Glaciers to global warming: hydroecological consequences of trace element Export".

12.40-14:30 PAUSA PRANZO (accesso mensa: 13:00-14:00)

Sala Conferenze, Palazzo Ricerca e Conoscenza (PRC)

14:30- 15:15 RELAZIONE SU INVITO ONLINE: Michael Lomas: Biology Trumps Ocean Warming: Adaptive Biogeochemistry in the Sargasso Sea

Sessione speciale: Processi fisici e biogeochimici in ambienti marini e d'acqua dolce: misure e modelli (cont.). CHAIR: Claudia Dresti; Diego Copetti; Andrea Fenocchi

2. 15:15-15:30 **ONLINE: Claudia Dresti**, Michela Rogora, Diego Copetti, Fabio Buzzi, Andrea Beghi, Franca Pandolfi, Cristina Borlandelli, Davide Fortino, Giovanni Biccai, Daniele Magni, Alessandro Canziani, Andrea Fenocchi: Effectivity of hypolimnetic withdrawal on the restoration of Lake Varese.
3. 15.30-15.45. **ONLINE: Luca Russo***, Matteo Loschi, Daniele Bellardini, Roberta Congestri, Michael W. Lomas, Simone Libralato, Domenico D'Alelio. Resilience of plankton food webs to ocean warming.
4. 15:45-16:00 **ONLINE: Florian Kokoszka**, Baptiste Le Roux, Daniele Iudicone, Fabio Conversano, and Maurizio Ribera d'Alcalá: Long-term variability of the coastal ocean stratification in the Gulf of Naples: Two decades of monitoring the marine ecosystem at the LTER-MC site, between land and open Mediterranean Sea.
5. 16:00-16:15 **Julia Pasqualini***, Nergui Sunjidmaa, Daniel Graeber, Markus Weitere, Steffen Kummel, Niculina Musat, Zulma Lorena Duran, Alexander Bartush, Mario Brauns: Multiple Stressor Effects on Ecosystem Function: Disentangling Effects of Eutrophication and Clogging on Nitrate Uptake.
6. 16:15-16:30 Marta Fregona, Matti Leppäranta, Ivan Mammarella, **Sebastiano Piccolroaz**. A simple model for predicting ice thickness in lakes.

16.30-16.45 COFFEE BREAK

16.45-18.00 ASSEMBLEA DEI SOCI

Giovedì 30 giugno

Sala Conferenze, Palazzo Ricerca e conoscenza (PRC)

8:30-9:15 RELAZIONE SU INVITO ONLINE: Federico Marrone: What we (don't) know about aquatic biodiversity. A plea for the reappraisal of the so-called "old-fashioned" approaches

Sessione speciale: Laghi artificiali, stagni e lagune costiere del Mediterraneo: una risorsa a rischio.

Chair: Cecilia Teodora Satta e Federico Marrone

1. 9:15-9:30. **ONLINE: Chiara Facca**, Francesco Cavraro, Piero Franzoi, Stefano Malavasi, Simone Redolfi Bristol. The spreading of the global invader *Palaemon macrodactylus* Rathbun, 1902 and its interaction with congeneric native species in Venice lagoon (Italy).
2. 9:30-9:45. **Diego Copetti**, Raffaella Matarrese, Licia Guzzella, Lucia Valsecch, Gianni Tartari, Marina Mingazzini, Maria Teresa Palumbo. Trophic state and algal blooms in a southern Italy strategic multiple-uses reservoir (Lake Occhito).
3. 9:45-9:50. **ONLINE: POSTER: Oriana Soru**, Paola Spanu, Efisio Sais, Tomasa Viridis, Maria Cristina Pinna, Maristella Putzu, Paola Buscarinu: Presence of microcystins in some reservoirs of Sardinia: analytical approaches and preliminary results.
4. 9:50-9:55. **ONLINE: POSTER: Jacopo Culurgioni, Riccardo Diciotti****, Laura Mura, Giovanna Chessa, Gabriele Sanna, Rosanna Floris, Francesco Chessa, Simonetto Serra, Marco Trentadue, Nicola Fois: Use of otoliths for estimating age of *Mugil cephalus* L. destined to "bottarga" production in Tortoli lagoon (central western Sardinia, western Mediterranean).
5. 9:55-10:00. **ONLINE: POSTER: Rosanna Floris**, Gabriele Sanna, Sonia Murgia, Greta Battaglia, Fabio De Pascale, Alessandro Vezi, Nicola Fois: A metagenetic study on intestinal microbial communities of grey mullets from a Mediterranean coastal lagoon (Santa Giusta, Sardinia, Italy).
6. 10:00-10:05. **ONLINE: POSTER: Angelo Troia**, Mariano Vivacqua, Elisabetta Oddo, Tommaso La Mantia: The ancient irrigation system of the Palermo Plain (Sicily, Italy) as a substitute ecosystem: preliminary investigations on its aquatic flora.

Sessione speciale: Multidisciplinary and trans-ecodomain vision for the management and control of invasive alien species - Visione multidisciplinare e trans-ecodominio per la gestione e il controllo delle specie aliene invasive. CHAIR: Angela Boggero, Agnese Marchini

1. 10:05-10:20. **ONLINE: Cristina di Muri***, Ilaria Rosati, Alberto Basset, Juan Miguel González-Aranda, Antoni Huguet-Vives, Nikos Minadakis, Antonio José Sáenz-Albanés, Lucia Vaira, Giorgio Mancinelli: The validation case on invasive crustaceans of the LifeWatch ERIC Internal Joint Initiative: state of the art and next steps forward.
2. 10:20-10:35. **ONLINE: Vanessa De Santis***, Filip Ribeiro, Martin Cech, Cesare Puzzi, Gabriele Bovo, Alessandra Pucci, Bruno Aimone, Pietro Volta: LIFE PREDATOR: a new EU LIFE Nature & Biodiversity Project to PREvent, Detect, combAT the spread of SiluRus glanis in south European lakes to protect biodiversity.

10.35-10.50 COFFEE BREAK

3. 10:50-11:05. **ONLINE: Elena Tricarico**, Chiara Ceccarelli, Alberto Francesco Inghilesi, Lorenzo Lastrucci: The effects of the alien aquatic plant *Alternanthera philoxeroides* on the freshwater communities of the Arno River in Florence.
4. 11:05-11:20. **ONLINE: Anna Schroeder***, Alberto Pallavicini, David Stanković, Marco Pansera and Elisa Camatti: DNA metabarcoding as early warning and monitoring system for non-indigenous zooplankton species.
5. 11:20-11:35. **Nico Salmaso**, Francesca Ciutti, Cristina Cappelletti, Massimo Pindo, Adriano Boscaini: The initial spread of quagga mussel, *Dreissena bugensis* Andrusov, 1897, in Italy: molecular and morphological evidence in Lake Garda.
6. 11:35-11:50. **Daniele Paganelli**, Lyudmila Kamburska, Silvia Zaupa, Laura Garzoli, Angela Boggero: Bio-pollution assessment of Lake Maggiore and its hydrographic system.
7. 11:50-12:05. **Laura Saccardi***, Andrea Voccia, Maurizio Odicino, Jordi-René Mor and Pietro Volta. Mosquitofish behavior increase top-predator fry mortality: preliminary results.
8. 12:05-12:20. Bolpagni Rossano, **Alice Dalla Vecchia***: How hydrology and topography drive exotic plants in annual vegetation of mid-size lowland rivers.
9. 12:20-12:25. POSTER: **Adriano Boscaini**, Cristina Cappelletti, Francesca Ciutti, Nico Salmaso: Potential impact of dreissenids species in relation to the first report of quagga mussel (*Dreissena bugensis*) at the end of winter 2022 in Lake Garda (Northern Italy).
10. 12:25-12:30. POSTER: **Daniele Paganelli**, Angela Cianci, Agnese Marchini: Distribution and impacts of the invasive amphipod *Dikerogammarus villosus* (Sowinsky, 1894) in the river Adda (South Adda Regional Park, Northern Italy).
11. 12:30-12:35. POSTER. **ONLINE: Tommaso Cancellario**, Alex Laini, Simone Guareschi: Invasive hell: potential distributions of invasive gammarids overlap in central Europe but not in South European coastal regions.
12. 12:35-12:40. POSTER. **ONLINE: Irene Lo Presti****, Lucia Zanovello, Matteo Girardi, Diego Micheletti, Giorgio Bertorelle, Heidi C. Hauffe, Maria Cristina Bruno. eDNA detection of autochthonous and invasive freshwater crayfish in Trentino.

12.40-14.30 PAUSA PRANZO (accesso mensa: 13:00-14:00)

14.30-23.00 ESCURSIONE E CENA SOCIALE

14.30-15.30 Trasferimento con bus al Lago di Tovel

15.30-15.45 Introduzione stazione LTER Lago di Tovel

15.45-17.00 Escursione

17.00-18.00 Rientro in FEM

19.00 Partenza per la cena (San Michele, 15 minuti a piedi da FEM)

19.30 Cena Sociale

Venerdì 1 luglio

Sala Conferenze, Palazzo Ricerca e conoscenza (PRC)

8:30-9:15. RELAZIONE SU INVITO ONLINE: RITA GIUFFREDI Moving across sectors, languages and boundaries: young people and women as agents of change in complex socio-ecological systems

SESSIONE regolare CHAIR: Maria Cristina Bruno, Leonardo Cerasino

1. 9:15-9:30. **Leonardo Langone**, Fabio Trincardi: Gaia Blu, the new multipurpose ocean research vessel of CNR.
2. 9:30-9:45. **ONLINE: Roberto Bertoni**: Gli antichi strumenti della limnologia: dalla conservazione alla scoperta .

Sessione speciale: Il restauro degli ecosistemi: prevenire, arrestare ed invertire il degrado degli ecosistemi - Ecological Restoration: prevent, halt and reverse the degradation of ecosystems.

CHAIR: Silvia Bianchelli, Antonio Pusceddu

1. 9:45-10:05. **OPENING ONLINE: Erika Fabbrizzi**, Sylvaine Giakoumi, Francesco De Leo, Laura Tamburello, Antonia Chiarore, Alberto Colletti, Marianna Coppola, Marco Munari, Luigi Musco, Fabio Rindi, Lucia Rizzo, Beatrice Savinelli, Giulio Franzitta, Daniele Grech, Emma Cebrian, Jana Verdura, Silvia Bianchelli, Luisa Mangialajo, Ina Nasto, Denada Sota, Sotiris Orfanidis, Nadia K. Papadopoulou, Roberto Danovaro, Simonetta Frascchetti. The challenge of setting restoration targets across the Mediterranean Sea under climate changes: the case study of macroalgal forests.
2. 10:05-10:20. **ONLINE: Cinzia Podda**, Francesco Palmas, Giovanna Chessa, Jacopo Culurgioni, Riccardo Diciotti, Nicola Fois, Andrea Sabatini: Restocking with wild caught farmed European eels: an alternative approach.
3. 10:20-10:35. **ONLINE: Claudia Ennas**, Viviana Pasquini, Pierantonio Addis, Antonio Pusceddu: Bioreactor capacity of sea cucumber *Holothuria tubulosa* (Gmelin, 1788) under different scenarios of climate change.

10.35-10:50 COFFEE BREAK

4. 10:50-11:05. **Silvia Bianchelli**, Simonetta Frascchetti, Francesco Martini, Marco Lo Martire, Fabio Rindi, Roberto Danovaro: Following the roadmap for the restoration of Mediterranean Macroalgal forests: a case study from the Central Adriatic Sea.
5. 11:05-11:20. **Stefano Brignone**, Vanessa De Santis, Tiziano Putelli, Christophe Molina, Armando Piccinini, Richard A. Carmichael, Pietro Volta: Displacement of hatchery trout in a small creek in Southern Switzerland: the role of water discharge.
6. 11:20-11:35 **Maria Cristina Bruno**, Francesca Vallefuoco, Anna Casari, Larsen Stefano, Dallafior Valentina, Guido Zolezzi: Moving waters: mitigating hydrological alterations while increasing hydropower production, a case study from the Italian Alps.
7. 11:35-11:40 POSTER: **Jacopo Cimini**, Lorenzo Meroni, Valentina Asnaghi, Mariachiara Chiantore: REST-ART: RESToration of Marine Forests on ARTificial Reefs.

11:40-12:25 RELAZIONE SU INVITO – **PREMIO ALLA CARRIERA AIOL 2022 - ONLINE: C. CALLIERI: A 'life aquatic' with microbes: swimming through the last decades in microbial ecology with picocyanobacteria.**

Sessione speciale: Aquatic microbiomes and microbial pathogens across the One Health spectrum.
CHAIR: Grazia Marina Quero, Ester Eckert

1. 12:25-12:40. **Ester M. Eckert**, Francesco Riva, Emanuele Ferrari, Sara Borin, Andrea Di Cesare, Francesca Mapelli, Elena Crotti: Zooplankton influences extracellular DNA degradation and acquisition through natural transformation in freshwater microcosms.

12.40-14.15 PAUSA PRANZO (accesso mensa: 13:00-14:00)

2. 14:15-14:30. **Marco Basili**, Grazia Marina Quero, Roberta Piredda, Giulia Maricchiolo, Simone Mirto, Elena Manini, Anne Mette Seyfarth, Marco Candela, Gian Marco Luna: Host-associated and environmental microbiomes in a Mediterranean gilthead sea bream fish farm.
3. 14:30-14:45. **Mauro Celussi**, Cecilia Balestra, Elisa Banchi, Viviana Fonti, Vincenzo Manna: Popstars in the Adriatic Sea: seasonal dynamics of the most abundant prokaryotes at C1-LTER station, Gulf of Trieste.
4. 14:45-15:00. **Vincenzo Manna**, Elisa Banchi Mauro Celussi: The sweet tooth of marine microbiomes: potential and expression patterns of prokaryotic glycosyl-hydrolases across the global ocean.
5. 15:00-15:15. **Grazia Marina Quero**, Stefano Guicciardi, Pierluigi Penna, Gian Marco Luna: Trends of fecal pollution along the coasts of Marche Region (Adriatic Sea) over a decade (2011-2021).
6. 15:15-15:30. **Gian Marco Luna**, Grazia Marina Quero, Simona Retelletti Brogi, Chiara Santinelli. Water masses age and origin drive the diversity of pelagic prokaryotes and dissolved organic matter dynamics: the Mediterranean Sea case.
7. 15:30-15:45. **ONLINE: Elisa Banchi**, Vincenzo Manna, Viviana Fonti, Cinzia Fabbro, Mauro Celussi: Improving environmental monitoring of Vibrionaceae in coastal ecosystem through amplicon sequencing.
8. 15:45-15:50. **ONLINE: POSTER Maria Vittoria Tenci**, Marco Toffolon, Walter Bertoldi, Stefano Brighenti, Francesco Comiti, Luca Carturan, Maria Cristina Bruno, Leonardo Cerasino, Massimo Pindo, Monica Tolotti: EVER-LAKE: Formation, evolution and fate of new proglacial lakes in the deglaciating Alps.
9. 15:50-15:55. **ONLINE: POSTER: Sara Vettorazzo**, Adriano Boscaini, Nico Salmaso: Microbial pathogen detection in freshwater biomonitoring by amplicon sequencing: range of potential applicability.
10. 15:55-16:00. POSTER: **Emma Bazzani**, Chiara Lauritano, Olga Mangoni, Francesco Bolinesi, Maria Saggiomo: Insights on salinity tolerance from a *Chlamydomonas* strain.
11. 16:00-16:05. POSTER **Monica Tolotti**, Stefano Brighenti, Maria Cristina Bruno, Leonardo Cerasino, Massimo Pindo, Werner Tirlir, Davide Albanese: Does the biodiversity of high-altitude aquatic prokaryotes reflect the expected "Windows of opportunity" in deglaciating Alpine catchments?



16:05-16:45 PREMIAZIONI GIOVANI RICERCATORI E CERIMONIA DI CHIUSURA

* partecipa al Premio Morabito per la migliore presentazione orale

** partecipa al Premio Morabito per il miglior poster

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