



**Università  
degli Studi  
di Ferrara**



**Meeting Annuale, 15-16 Novembre 2024**

# PROGRAMMA/SCHEDULE

**VENERDÌ, 15 NOVEMBRE 2024/FRIDAY, 15<sup>TH</sup> NOVEMBER 2024**

**8:30 – 9:00 → Registrazione dei partecipanti/Participant Registration**

**9:00 – 9:30 → Saluti e Introduzione alla Riunione/Welcome and Meeting Introduction**

**9:30 - 10:15 → RELAZIONE AD INVITO/INVITED TALK**

**Christine A. Maggs** (Queen's University of Belfast, Belfast, UK) - The type method reveals its power: NGS allows us to access genomes of old seaweed specimens and resolve taxonomic confusions.

**10:15 - 11:00 → PRIMA SESSIONE/FIRST SESSION: *Herbaria and Culture Collections: Biodiversity and Conservation***

**MODERATORI/CHAIRS:** Veronica Malavasi, Katia Sciuto

**10:15 - 10:30 → S. Armeli Minicante, E. Di Russo** - The management of herbaria data and metadata in the network for the Aquatic Natural Collections (Italian Integrated Environmental Research Infrastructures System - ITINERIS project).

**10:30 – 10:45 → L. Papa, L. Spada, A. Petrocelli, E. Cecere** - The importance of herbaria in long-term research: contribution of the DiSSCo infrastructure to their valorization.

**10:45 – 11:00 → V. Natali, E. Di Poi, A. Beran, M. Bordiga, D. Fornasaro, E. Cerino** - CoSMi, the Collection of Marine Microorganisms: a biological resource center to provide living material and preserve the biodiversity of microalgae.

**11:00 - 11:30 → PAUSA CAFFE'/COFFEE BREAK + ALLESTIMENTO POSTER/POSTER ATTACHMENT**

**11:30 – 13:00 → SECONDA SESSIONE/SECOND SESSION: *Microalgal Diversity and Evolution***

**MODERATORI/CHAIRS:** Chiara Pennesi, Stefano Accoroni

**11:30 - 11:45 → C. Magnabosco, A. Zingone, D. Sarno, I. Percopo, G. Romano** - Exploring phytoplankton diversity along the Calabrian Ionian coast.

**11:45 – 12:00** → **F. Neri, M. Ubaldi, G. Montali, S. Accoroni, S. Ricci, A. Pelusi, F. Cerino, T. Romagnoli, C. Totti** - Comparative analysis of phytoplankton diversity using microscopy and metabarcoding: insights from an eLTER station in the Northern Adriatic Sea.

**12:00 – 12:15** → **V. Malavasi, N. Beltran-Sanz, E. Catelan-Carphio, A. Grapputo, D.J. Eldridge, S. Travers, F. T. Maestre, F. Dal Grande** - Genome sequencing, assembly, and annotation of *Tetradesmus* sp. 198: insights into evolutionary relationships within the Scenedesmeaceae family.

**12:15 – 12:30** → **R. Trentin, E. Moschin, F. Dalla Vecchia, I. Moro** - Species concept in naviculoid diatoms of the Proschkiniaceae–Stauroneidaceae group.

**12:30 – 12:45** → **M. Ferrari, M. Marieschi, R. Cozza, A. Torelli** - Phytochelatin synthase in cyanobacteria and eukaryotic microalgae.

**12:45 – 13:00** → **L. Barsanti, P. Gualtieri** - Nomen omen: *Euglena gracilis* possesses a rhodopsin-based photoreceptor.

## **13:00 - 13:20** → **PRESENTAZIONI ONE-SHOT DEI POSTER/ONE-SHOT POSTER PRESENTATIONS**

**13:20 - 14:45** → **PRANZO** e visite a piccoli gruppi al Centro di Microscopia Elettronica/**LUNCH** and small group tours to the Electron Microscopy Centre + **POSTER SESSION**

**14:45 – 15:00** → Commemorazione del Prof. Gianni Felicini a cura di Antonella Bottalico/Commemoration of Prof. Gianni Felicini by Antonella Bottalico

## **15:00 – 16:30** → **TERZA SESSIONE/THIRD SESSION: *Microalgal Ecology, Environmental Adaptations and Communities***

**MODERATORI/CHAIRS:** Saverio Savio, Leonilde Rosselli

**15:00 - 15:15** → **M. Cantonati, M. Cid-Rodríguez, N. Angeli, P. Gourvil, M. Grego, D. Spitale, F. Trenti, G. Guella** - Integrative taxonomic and ecological characterization of *Eunotia tenella* (Grunow) Hust., a diatom Red-List species typical of oligo-dystrophic headwater habitats.

**15:15 – 15:30** → **F. Bellamoli, L. Latella, M. Cantonati, M. Calgaro, M. Pivato, C. Laiti, S. Cazzaniga, N. Vitulo, & M. Ballottari** - Far-red light-adapted cyanobacterial communities in selected karst caves of Northern Italy.

**15:30 - 15:45** → **M. Marieschi, G. Molinari, M. Ponzi, D. Ceresini, A. Torelli** - Adaptive mechanisms to Cr(VI) stress: Investigation on terrestrial/freshwater algae isolated in a chromingenous waterspring on Mount Prinzerà (PR, Italy).

**15:45 - 16:00** → **G. Spinelli, M. Minio, C. Gerotto** - Life in a dynamic environment: effects of variable light on marine microalgae.

**16:00 - 16:15** → **A. Pelusi, L. Ambrosino, M. Cangini, S. Dall'Ara, M. Kralj, F. Relitti, C. Solidoro, M.I. Ferrante, F. Cerino** - Effects of phosphate limitation in ecologically relevant diatom model species.

**16:15 - 16:30** → **A. Albanese, T. Cibic** - Colonization of submerged coralligenous outcrops by microalgal biofilm: an experimental assessment using different calcareous substrates.

**16:30-17:00** → **PAUSA CAFFE'/COFFEE BREAK + POSTER SESSION**

**17:00 - 18:00** → **QUARTA SESSIONE/FOURTH SESSION: *Macroalgal Diversity, Ecology and Conservation***

**MODERATORI/CHAIRS:** Ester Cecere, Adriano Sfriso

**17:00 - 17:15** → **G. Marletta, A. Lombardo A., D. Serio** - Biodiversity census of Mediterranean Fucales: methodology and recent data.

**17:15 - 17:30** → **A.M. Mannino, A. Falace, G. Marletta, D. Serio** - Biodiversity of Fucales in the Ustica Island Marine Protected Areas (Tyrrhenian Sea, Italy).

**17:30 - 17:45** → **E. Descourvières, V. Bandelj, C. Solidoro, A. Falace** - Multidisciplinary approaches to assess the alarming decline of *Fucus virsoides*: a habitat-forming macroalga endemic to the Adriatic.

**17:45 - 18:00** → **G. Denti, E. Cecere, G. Portacci, A. Petrocelli** - *Chondracanthus acicularis* (Rhodophyta, Gigartinales) in the Mar Piccolo of Taranto.

**18:00 - 18:10** → **G. Furnari - Amenità ficologiche... e non solo!**

**18:10-18:50** → **ASSEMBLEA DEI SOCI/ASSOCIATES' ASSEMBLY**

**20:15** → **CENA SOCIALE** presso il Ristorante Antica Osteria delle Volte, Via delle Volte 37, 44121 Ferrara/**CONGRESS DINNER** at the Restaurant Antica Osteria delle Volte, Via delle Volte 37, 44121 Ferrara

## SABATO, 16 NOVEMBRE 2024/SATURDAY, 16<sup>TH</sup> NOVEMBER 2024

### 09:00 – 10:30 → QUINTA SESSIONE – I parte/FIFTH SESSION – I part: *Application Topics related to Algae: Biotechnologies and Environmental Management*

**MODERATORI/CHAIRS:** Andrea Sfriso, Laura Pezzolesi

**09:00 - 09:15** → **C. Pennesi, A. Becci, A. Amato, F. Beolchini** - Non-living macrophyte-derived materials as innovative metal sorbents for applications in wastewater treatment systems.

**09:15 - 09:30** → **A. Papini, B. Zonfrillo, M. Bellumori, I. Digiglio, M. Innocenti, S. Orlandini; M. Khatib, G. Zoccatelli, J. Rubert, N. Mulinacci** - Optimized method of ulvan extraction from *Ulva lactuca* L. (Ulvaceae), chemical characterization and evaluation of *in vitro* prebiotic activity.

**09:30 - 09:45** → **M. Odorisio, S. Savio, A. Riccio, S. La Frazia and R. Congestri** - Diatoms against viruses: small metabolites of *Staurosirella pinnata* and *Cylindrotheca closterium* impair viral replication.

**09:45 – 10:00** → **M. Sodini, S. Savio, C. Rodolfo and R. Congestri** - Diatoms against cancer: small metabolites of *Staurosirella pinnata* kill medulloblastoma cells.

**10:00 - 10:15** → **M. Franchini, M. Simonazzi, V. Papa, C. Samori, F. Costantini, R. Pistocchi, L. Pezzolesi** - Re-thinking the role of microalgae-associated bacterial communities in high-value molecules production: the case of polyhydroxybutyrate (PHB) rich *D. communis* biomass.

**10:15 - 10:30** → **C. Micheli** - The ability of cultivated photosynthetic organisms to produce bioenergy.

### 10:30-11:00 → PAUSA CAFFE'/COFFEE BREAK + POSTER SESSION

### 11:00 – 11:45 → QUINTA SESSIONE – II parte/FIFTH SESSION – II part

**11:00 – 11:15** → **M. Grego, H. Bolhuis, C. Bachy, I. Probert, P. Gourvil, K. Herveou, M. Gachenot, J. Joannic** - Cryopreservation of complex microbial communities from environmental samples.

**11:15 – 11:30** → **R. Ranaldi, L. Rugnini, F. Gabriele, N. Spreti, P. Di Martino, G. Migliore, F. Tasso, F. Scuderi, R. Braglia, A. Pujia, A. Canini** - A sustainable essential oil-based approach to counteract the microalgal biofilm in the Colosseum.

**11:30 - 11:45** → **G. Zoffoli, F. Cucchi, N. Caputo, L. Mirimin, L. Pezzolesi, F. Guerrini, M. Cangini, S. Dall'Ara, R. Pistocchi** - Detection and quantification of *Alexandrium minutum* in Sardinian mussel farms using real-time quantitative PCR and digital PCR.

**11:45 - 13:00** → **SESTA SESSIONE/SIXTH SESSION: Aquatic Macrophytes: Diversity, Ecology and Conservation**

**MODERATORI/CHAIRS:** Isabella Moro, Antonella Petrocelli

**11:45 - 12:00** → **A. Sfriso, A. Buosi, G. Silan, M.A. Wolf, Y. Tomio, L. Magnifico, K. Sciuto, M. Mistri, C. Munari, A.A. Sfriso** - Macrophytes in some lagoons of the Po Delta and at Fattibello in Comacchio Valleys, Italy.

**12:00 - 12:15** → **S. D'Ambrosio Burchio, G. Alongi, G. Furnari, C. Manfrin, A. Pallavicini, A. Falace** - Ecological forms of *Gongolaria barbata* (Sargassaceae, Fucales) in the Gulf of Trieste.

**12:15 - 12:30** → **A. Bottalico, A. Tursi, G. Chimienti, F. Mastrototaro** - Explosive growth of *Wrangelia penicillata* (Rhodophyta, Ceramiales) in the Tremiti Islands Marine Protected Area (southern Adriatic Sea).

**12:30 - 12:45** → **S. Heesch, M.D. Guiry, F. Rindi** - New discoveries in the family Prasiolaceae (Trebouxiophyceae) and a new taxonomic rearrangement of the genus *Prasiola*.

**12:45 - 13:00** → **A.A. Saber, A. Bellino, M. Cantonati, D. Baldantoni** - Biodiversity, ecological plasticity and conservation of Charophytes in two regions along a latitudinal and aridity gradient (southern Italy and Egypt).

**13:00 - 13:30** → **CONCLUSIONI e SALUTI FINALI!!!/CONCLUSIONS and FINAL GREETINGS!!!**

**POSTERS:**

**P1. S. Onen Tarantini, Jessica Titocci, Martina Pulieri, Angela Carluccio, Alberto Basset, Ilaria Rosati** - Maximizing the Value of Macroalgal Data: A Semantic Integration Approach using Macroalgae Traits Thesauri

**P2. F. Tromboni, C. Jativa, C. Seitz, A. Maasri, M. Cantonati, S. Bernal** - Flow Velocity and Macroinvertebrate Biodiversity Shape Periphyton Characteristics: Insights from Experimental Mesocosms.

- P3. M. Ubaldi, F. Neri, T. Romagnoli, S. Accoroni, C. Totti** - Abundance and biodiversity of microalgae in mucilage aggregates in the Northern Adriatic Sea (summer 2024): preliminary results from a multidisciplinary approach.
- P4. S. Azizi, S.B. Melliti, K.K. Mejri, E. Belghith, A. Khazri, M. Cantonati, A.H. Sakka** - First assessment of trophic state and environmental stressors in Jedara stream (Tunisia, Southwestern Mediterranean), using phytoplankton and benthic diatoms as bio-indicators.
- P5. L. Piana, M. Cid-Rodríguez, N. Angeli, O. Bilous, H. Lange-Bertalot, Z. Levkov, D. Spitale, A. A. Saber, M. Cantonati** - *Navicula aquaesuavis* sp. nov., with a discussion of the relevance of the diatom genus *Navicula* in spring ecosystems.
- P6. M. Simonazzi, M. Varotto, V. Miele, E. Marotta, L. Tartaglione, F. Guerrini, R. Pistocchi** - Non-thermal plasma: a green technology for the treatment of toxic cyanobacteria in water supplies.
- P7. L. Montalbetti, A. Baggio Morano, C. Torri, L. Pezzolesi** - Implication of nitrogen and sulfur limitation on resources allocation and dimethylsulfoniopropionate (DMSP) production in the benthic dinoflagellate *Ostreopsis cf. ovata*.
- P8. Y. Tomio, F. Cunsolo, M. Tarricone, A. Molena, A.A. Sfriso, A. Sfriso** - Intraspecies and interspecies adaptation to water depth across a gradient of three species in Venice Lagoon.
- P9. F. Cunsolo, Y. Tomio, A.A. Sfriso, M. Mistri, A. Sfriso** - Daily primary production of a *Nanozostera noltei* meadow community in the Venice lagoon
- P10. M. Mauceri, A-S. Juhmani, M. Gallo, F. Rizzolio, R. Zangrando, S. Pizzini, M. Roman, A. Gambaro, A.A. Sfriso**. Uncovering Anticancer Activity from Venice Lagoon brown algae: Discovery of NP-011548 from *Scytosiphon lomentaria* (Lyngbye) Link.
- P11. A.A. Sfriso, A. Buosi, F. Cunsolo, Y. Tomio, G. Ferretti, E. Pignoni, A. Sfriso, M. Mistri**. Seagrass Restoration: A tool to strengthen carbon sequestration in transitional water systems?
- P12. M.A. Wolf, K. Sciuto, B. La Rocca, A. Petrocelli, E. Cecere, A. Sfriso** - *Grateloupia minima* (Halymeniaceae, Rhodophyta): new insights on its distribution along the Italian coasts.
- P13. K. Sciuto, A.A. Sfriso, I. Moro, E. Moschin, G. De Nadai, S. Francescato, S. Ferrari, M.A. Wolf, A. Sfriso, C. Munari, M. Mistri** - Preliminary characterization of two cyanobacterial strains from Auronzo di Cadore (Belluno, Italy).
- P14. C. Caroppo, K. Sciuto, P. Pagliara** - Sponge-associated cyanobacterial diversity and activity: evidences from the northern Ionian Sea.

## Comitato organizzatore/Organizing Committee:

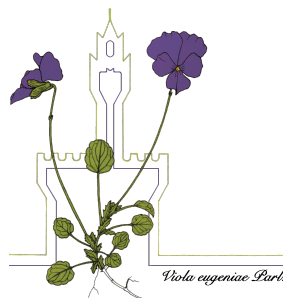
Katia Sciuto, Marco Pezzi, Cristina Munari, Michele Mistri, Andrea Sfriso

## Comitato Scientifico/Scientific Committee:

Veronica Malavasi, Katia Sciuto, Andrea Sfriso, Marion A. Wolf

## Staff di supporto/Supporting staff:

Elia Casoni, Cinzia Cozzula, Federico Cunsolo, Luca De Donatis, Maria Grazia Paletta



**Università  
degli Studi  
di Ferrara**



Questo Meeting Scientifico è stato realizzato grazie al Fondo Sociale Europeo (FSE) REACT EU - Programma Operativo Nazionale (PON) "Ricerca e Innovazione" 2014-2020 (articolo 24, comma 3, lettera a) della Legge n. 240 del 30 dicembre 2010, e s.m.i., e del Decreto Ministeriale n. 1062 del 10 agosto 2021.

This Scientific Meeting has been realized thanks to the European Social Fund (ESF) REACT EU - Italian National Operational Programme (NOP) "Research and Innovation" 2014-2020 (article 24, clause 3, letter a) of Italian Law n. 240 of 30 December 2010 and of Italian Ministerial Decree n. 1062 of 10 August 2021.