



**Università
degli Studi
di Ferrara**



Meeting Annuale, 15-16 Novembre 2024

PROGRAMMA/SCHEDULE

VENERDÌ, 15 NOVEMBRE 2024/FRIDAY, 15TH 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, F. 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 Scenedesmaceae family.

12:15 – 12:30 → R. Trentin, E. Moschin, F. Dalla Vecchia, I. Moro - Species concept in naviculoid diatoms of the Proschkiniaeae–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 Prinzera (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, 16TH NOVEMBER 2024

9:00 - 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. Digilio, 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. Samorì, 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. Rughini, 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'Ambros 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. Zangrandi, S. Pizzini, M. Roman, A. Gambaro, A.A. Sfriso. Uncovering Anticancer Activity from Venice Lagoon brown algae: Discovery of NP-011548 from *Scytoniphon 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 - *Gratelouphia 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



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