



**Università
degli Studi
di Ferrara**



 **GRUPPO
ALGOL
LOGIA**
Società Botanica Italiana

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 *Tetradasmus* 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 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 - 14:40 → **PRANZO e visite a piccoli gruppi al Centro di Microscopia Elettronica/LUNCH and small group tours to the Electron Microscopy Centre + POSTER SESSION**

14:40 – 15:00 → Commemorazione del Prof. Gianni Felicini a cura di Antonella Bottalico e Commemorazione del Prof. Attilio Solazzi a cura di Mara Marzocchi/Commemoration of Prof. Gianni Felicini by Antonella Bottalico and Commemoration of Prof. Attilio Solazzi by Mara Marzocchi

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, 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. Digiglio, F. Ranaldi, 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

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



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