



**Workshop "Regulations of
culture collections, strains
preparation and
characterisation"
CNR-IRSA Verbania Pallanza (IT)**



Funded by
the European Union

Content

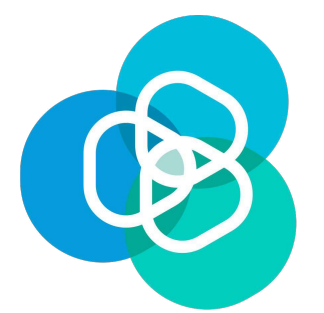


- The Organizing committee
- The Institution (CNR-IRSA and MICROBECO)
- The workshop: preliminary program, invited speakers and instructors



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the European Union

The Organizing committee



PARAQUA



Pietro Marchese
Selene Chinaglia



Laura Garzoli



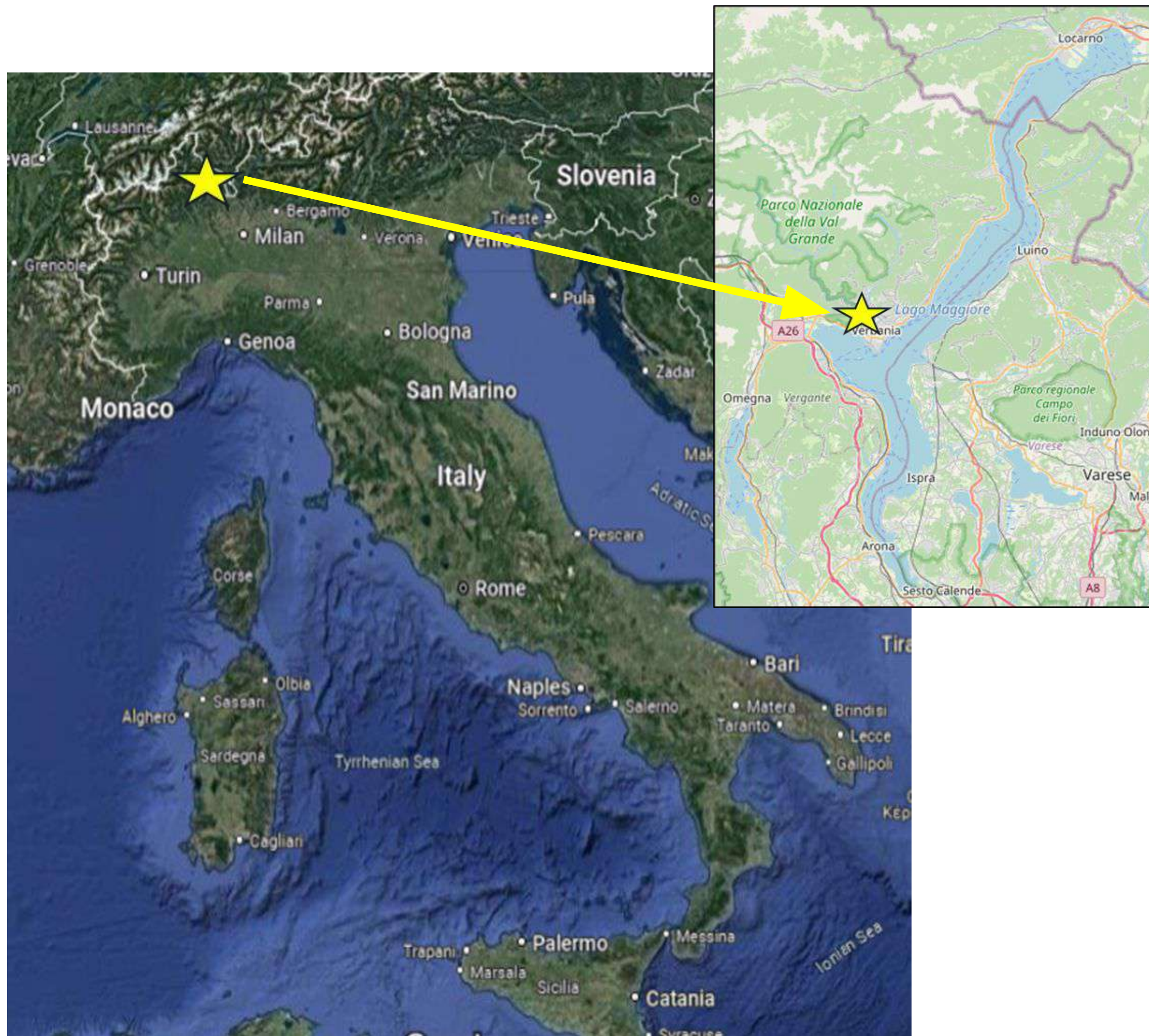
Manuela Coci



Elena Panariello



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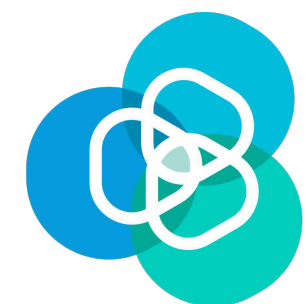
Consiglio Nazionale delle Ricerche



Verbania



We are here!



PARAQUA



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- Microbial biogeography
- DNA taxonomy
- Antibiotic Resistance
- Evolution in asexuals
- Rotifera systematics
- Microbial interactions
- Ecology of picocyanobacteria
- Carbon cycle in lakes
- Human gut microbiome
- Wastewater Microbial Ecology
- Bacteria-Rotifera interactions
- Toxin-antitoxin systems
- Long-term ecological research

MOLECULAR ECOLOGY GROUP

er Research Institute (CNR-IRSA) in Verbania investigates the interactions between microbes and small organisms in waters and in The MEG applies the general ecological theory to understand and their evolution.



MEG
LATEST NEWS

Latest News from the group: New articles, projects, collaborations and general news from the MEG. Click on the News to access

MEG
LATEST NEWS

1/11/2023 **New post-doc and post graduate positions available at the MEG!** Find out more on topics and deadlines

THE PARAQUA
PODCAST

29/9/2023 **An episode**

NEW
Scientist

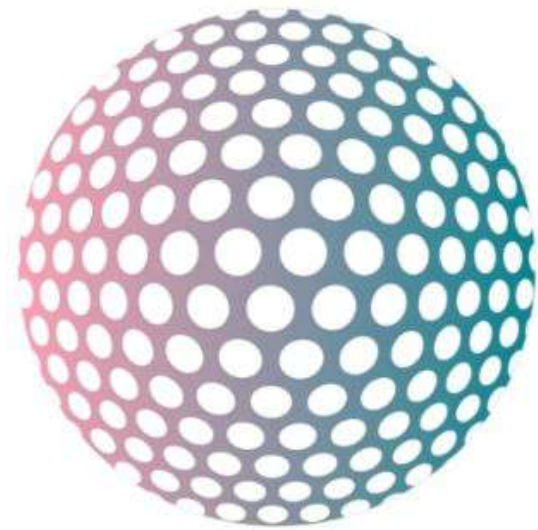
7/10/2023 **An**

UNED

1/9/2023 **Alejandro has collaborated in the documentary movie "Acuanautas bajo el volcán", omitted at the**

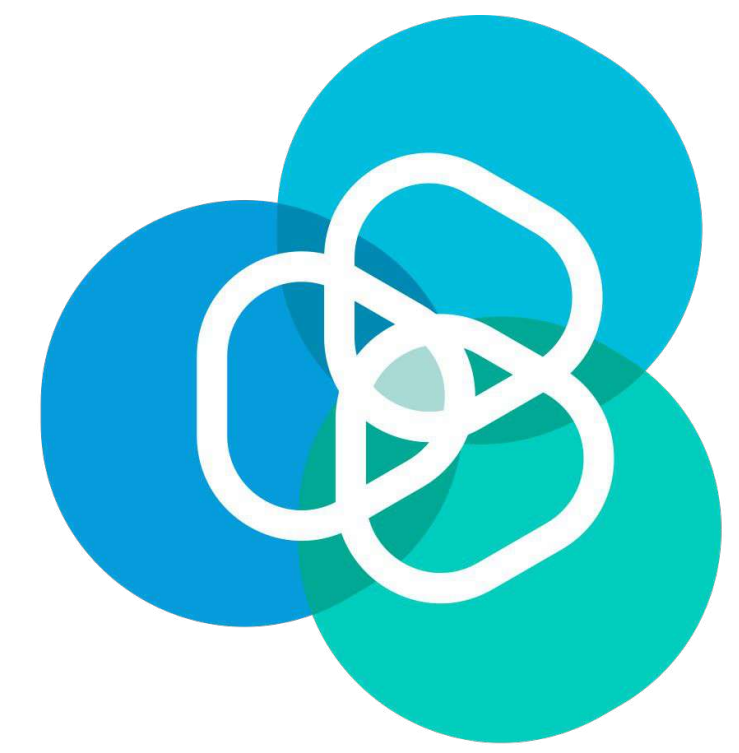
Global
Change
Biology

21/6/2023 **The second paper by MEG people in the first issue for 2024 in Global Change**



NATIONAL BIODIVERSITY FUTURE CENTER

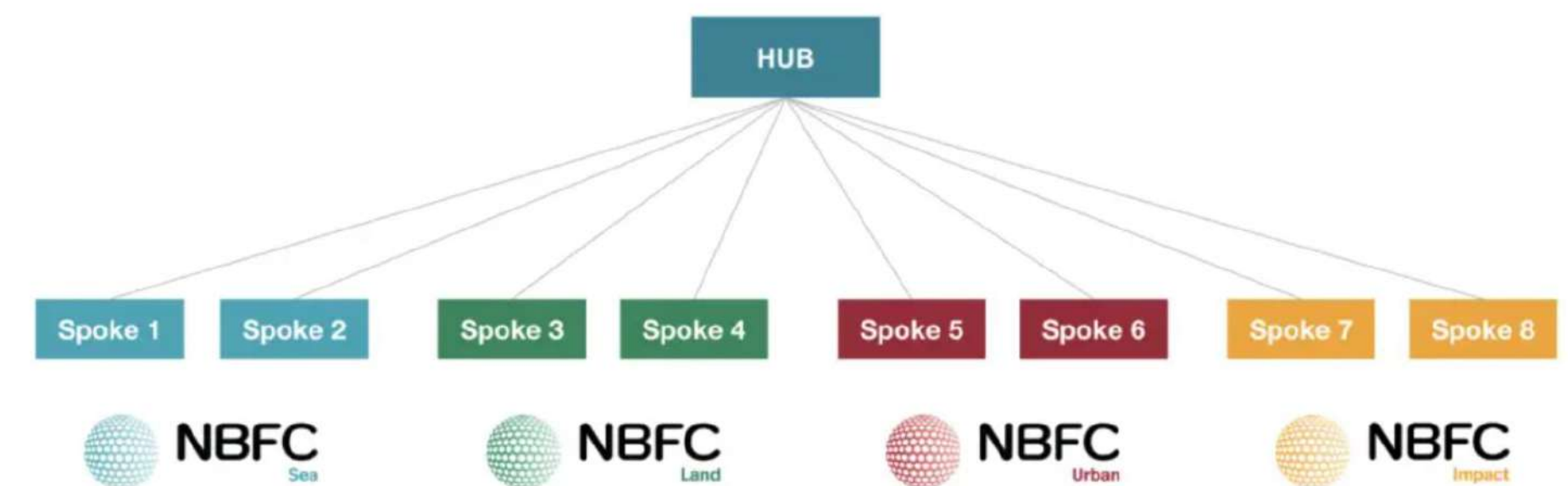
- National Research and Innovation Center dedicated to Mediterranean biodiversity
- **2,000 researchers** from different centers, universities and companies
- **Monitoring, conserving, restoring and valorising** the Mediterranean biodiversity



PARAQUA

Network management and development system

HUB & Spoke model





Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



MIRRI MICROBIAL ERIC
RESOURCE RESEARCH
INFRASTRUCTURE
EUROPEAN RESEARCH INFRASTRUCTURE CONSORTIUM



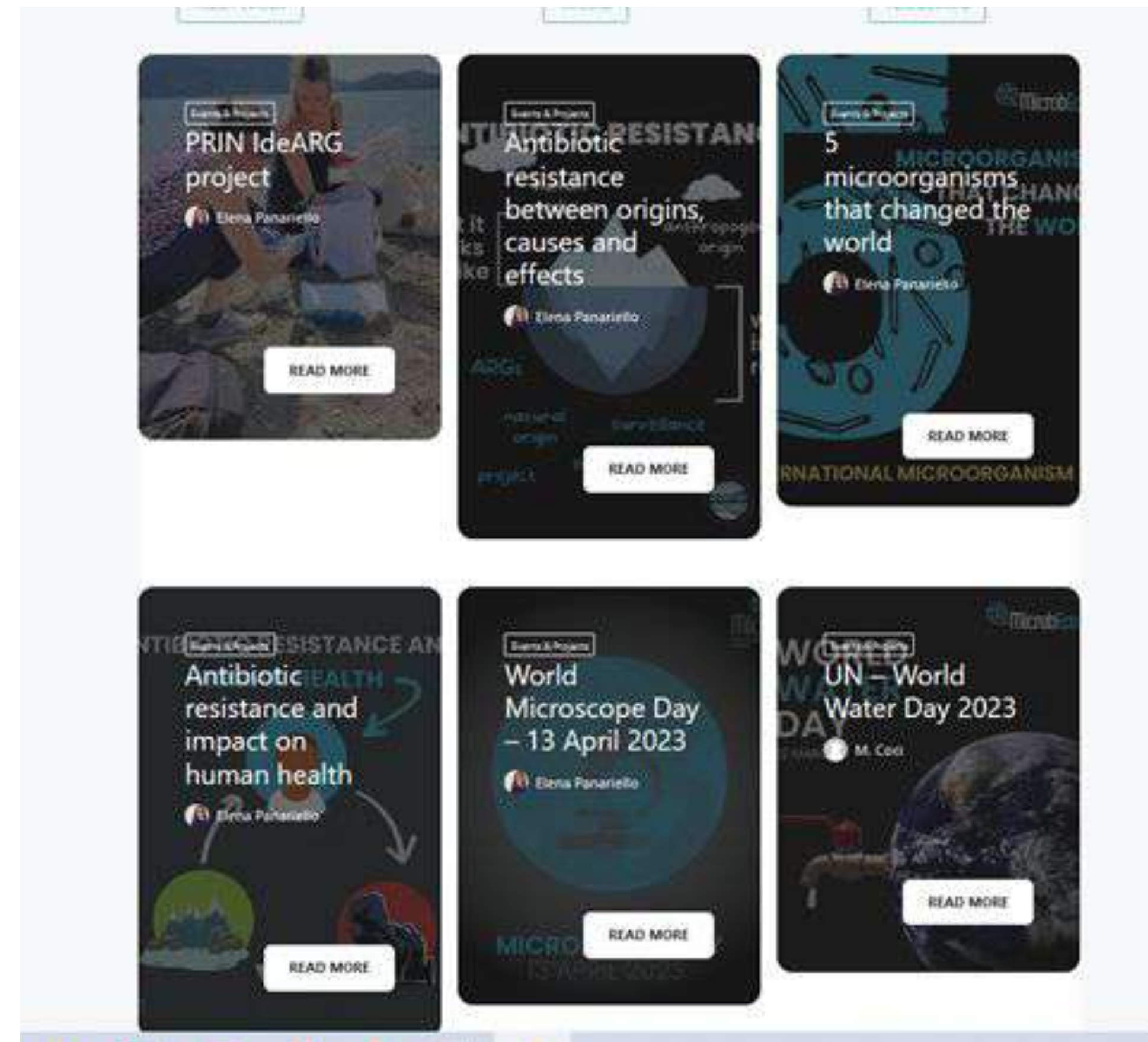
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MICROBECO

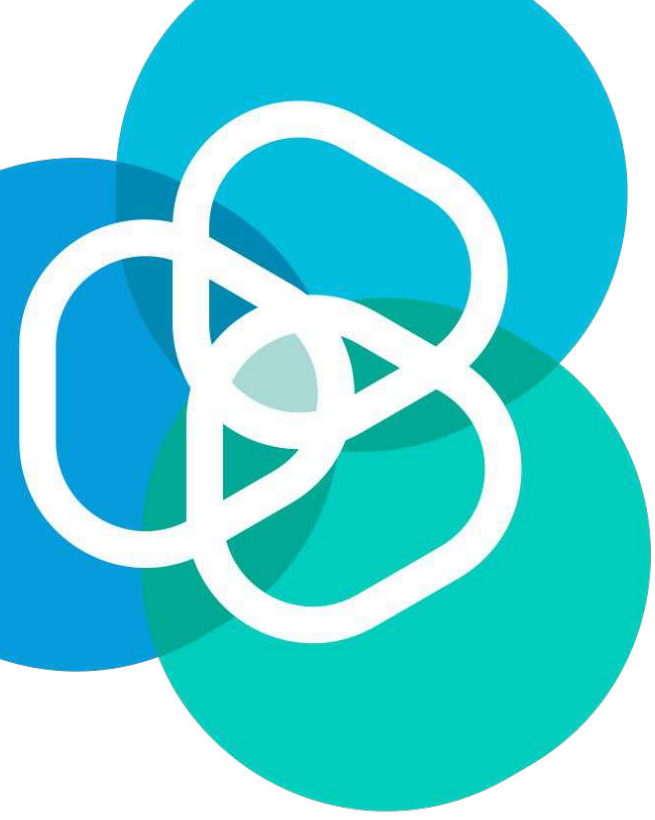
A SCIENTIFIC ORGANIZATION FOR MICROBIAL ECOLOGY

MicrobEco is a scientific organization with a common view: disseminate **knowledge**, strengthen **collaboration**, create and provide **opportunities** to **learn** about, discuss and challenge frontier issues in microbial ecology. We connect scientists and we educate **future** generations to know and to do not fear **microbes**.

Our training courses and dissemination activities involved people of all ages, from students of different education levels to researchers.



paraqua-cost.eu



MICROBECO

Not for profit organization



Foundation 2012- 2024 on going - dedicated to disseminate science in the field of “microbial ecology”

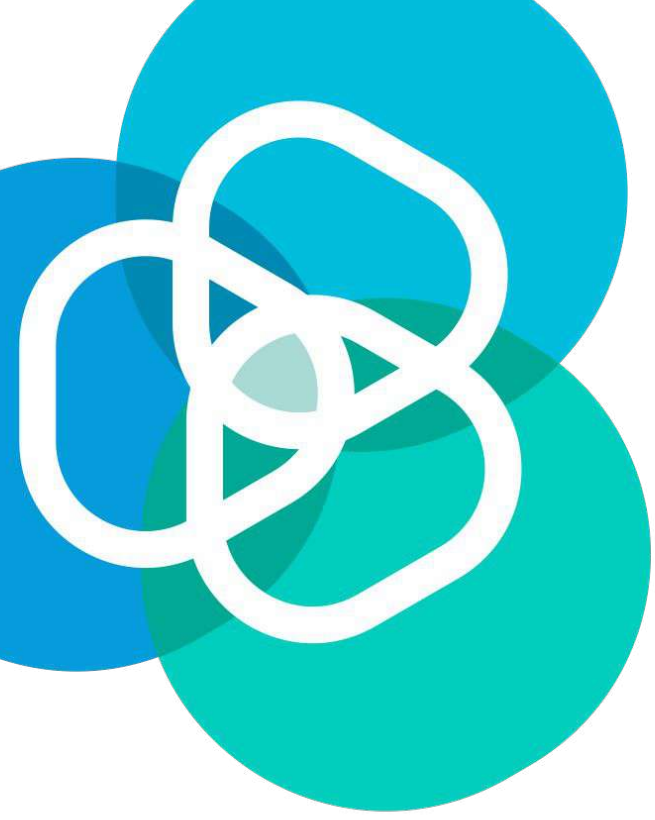
- 13th Symposium of Aquatic Microbial Ecology (SAME13)



- 1 awareness campaign to reduce bottled water (not fearing microbes)
- 2 expositions
- 3 World Water Day events
- 6 soft-skills courses
- 11 microbial ecology courses

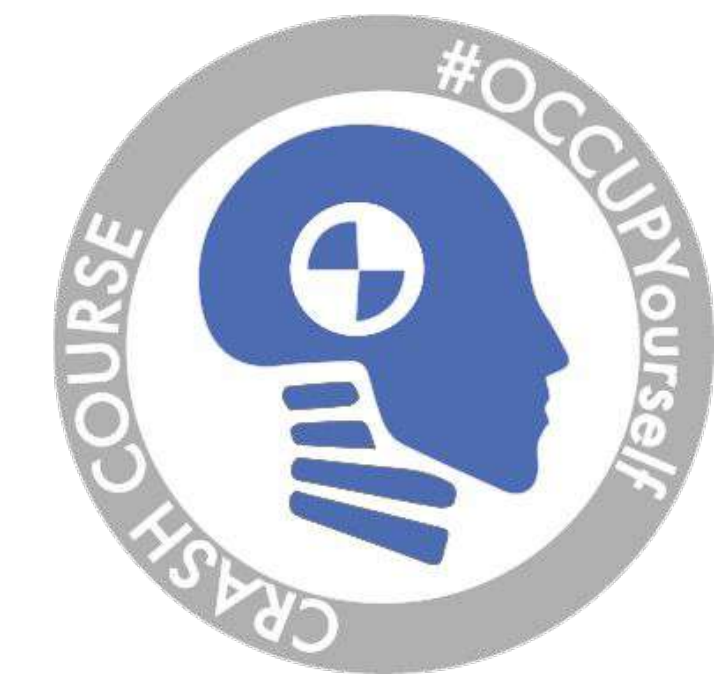
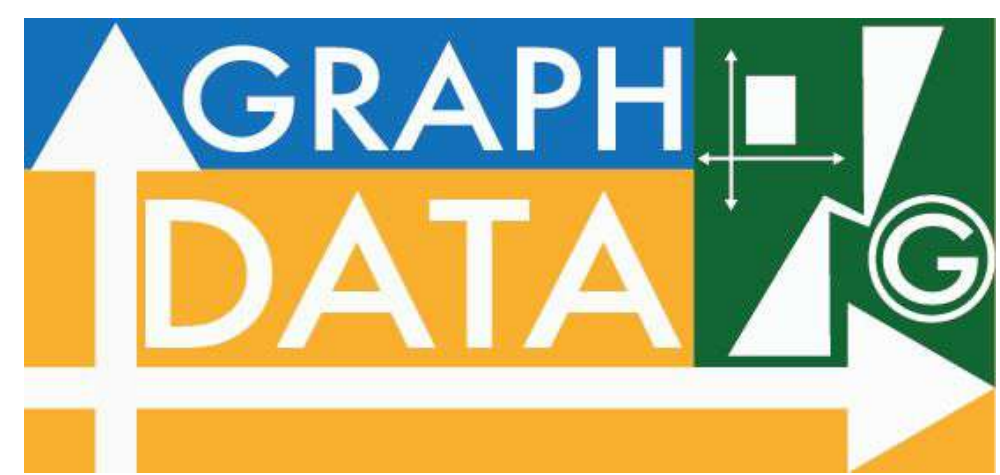


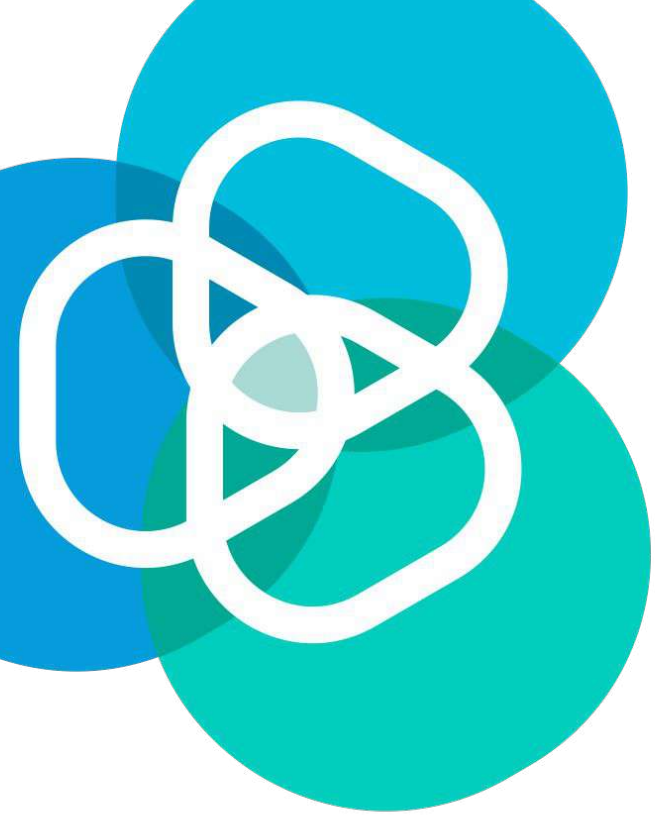
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MICROBECO

Not for profit organization





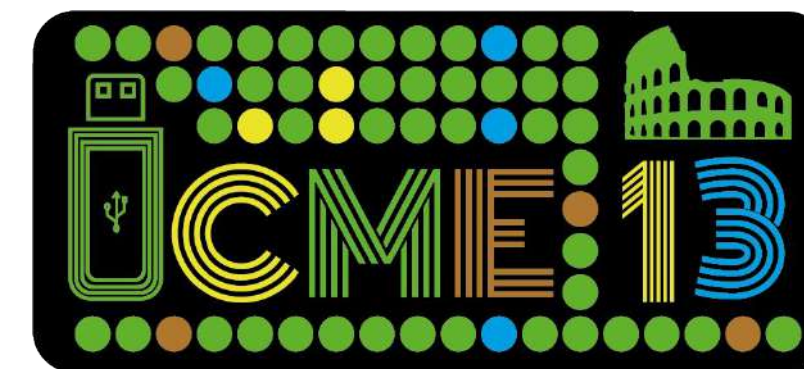
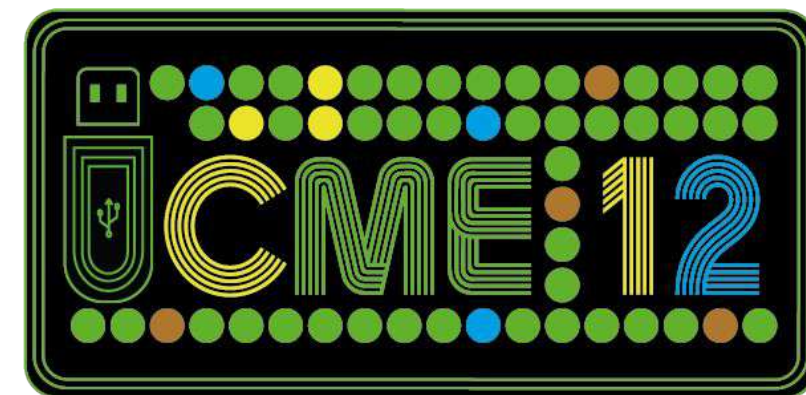
International Course in Microbial Ecology

2009 VERBANIA | 2010 ROMA | 2011 MESSINA | 2012 NAPOLI

2013 STRESA | 2014 VENEZIA | 2015 TRIESTE | 2016 CATANIA



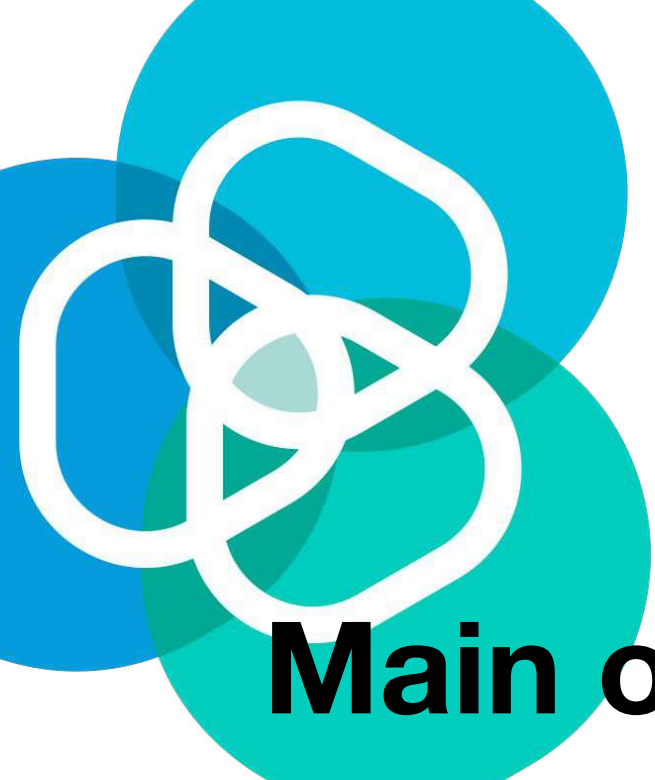
2017 VERBANIA | 2018 BRUXELLES | 2019 MILANO | 2022 GLACIAR



2023 VERBANIA | 2024 ROMA



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THE WORKSHOP

Main objective: Provide the participants tools and knowledge to establish and manage a microbial culture collection, also in relation to methodological and legal requirements. Establish ParAqua working groups on chytrids culture and cryopreservation

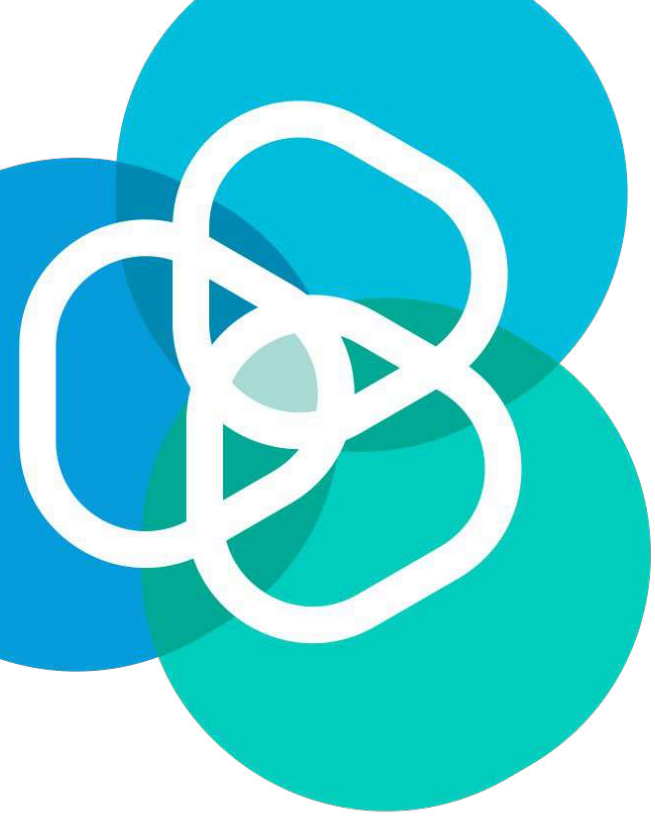
The date: 12-16 May 2025 (3-4 days)

The venue: CNR-IRSA Pallanza

Expected participants: 15-20 people



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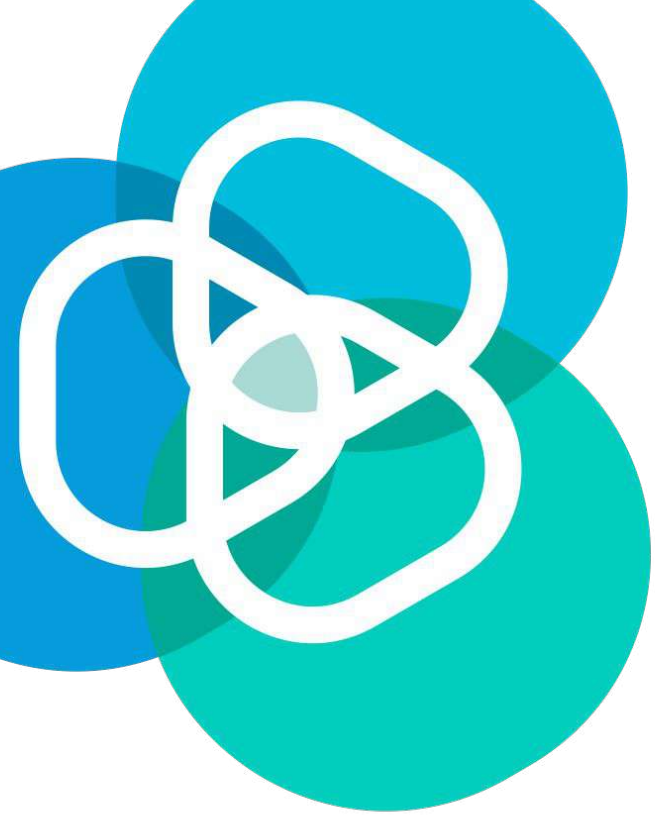
THE WORKSHOP

Preliminary agenda:

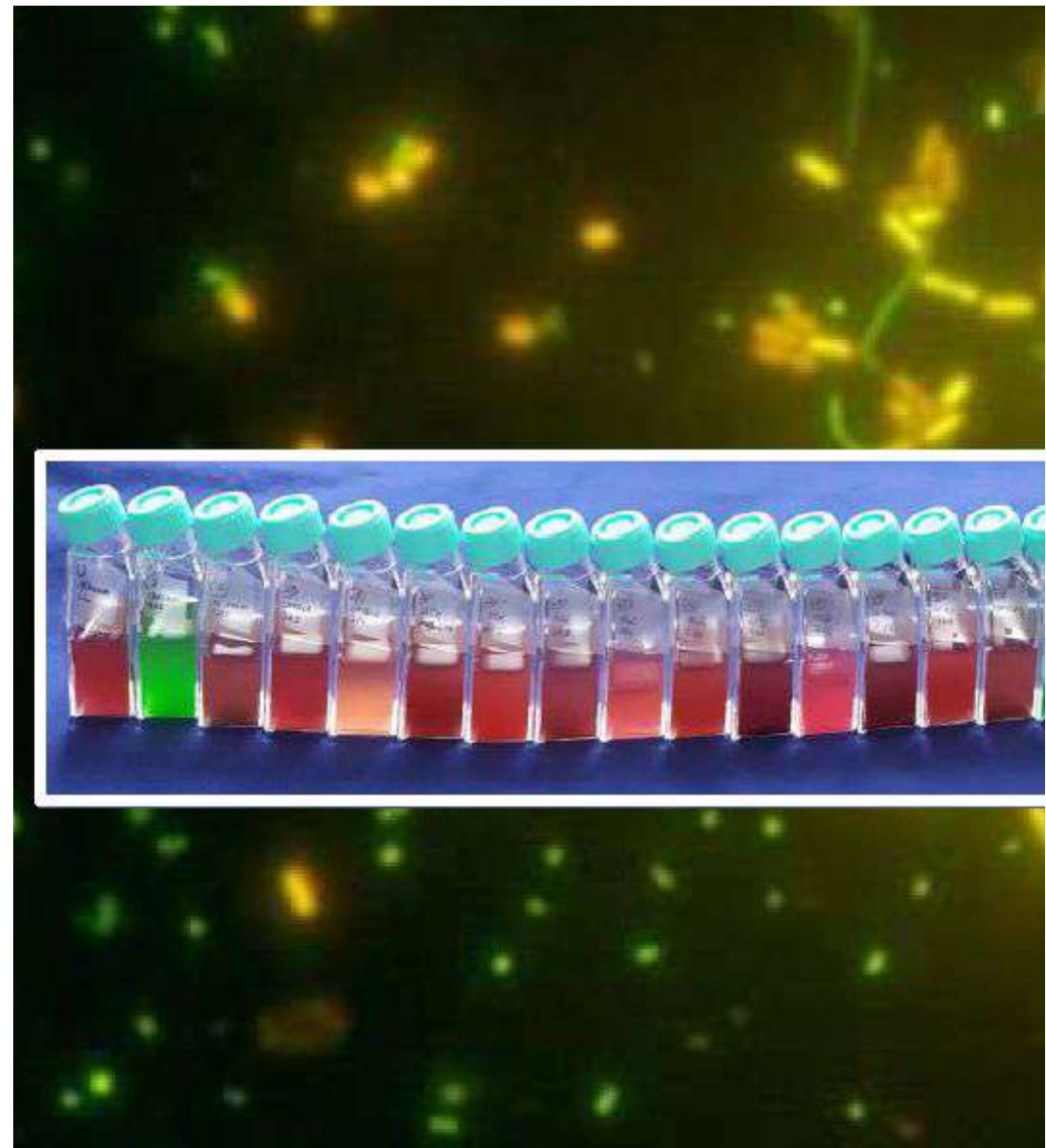
in-hands sessions, online workshops, fieldtrip to Isole Borromee



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THE WORKSHOP



Pycocyanobacteria cultivation

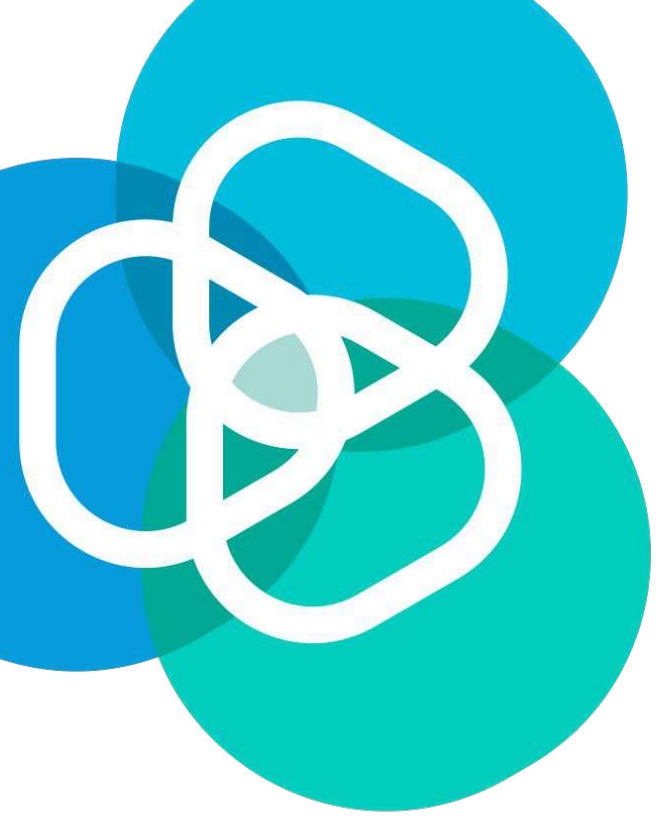
Dr. Cristiana Callieri

CNR-IRSA

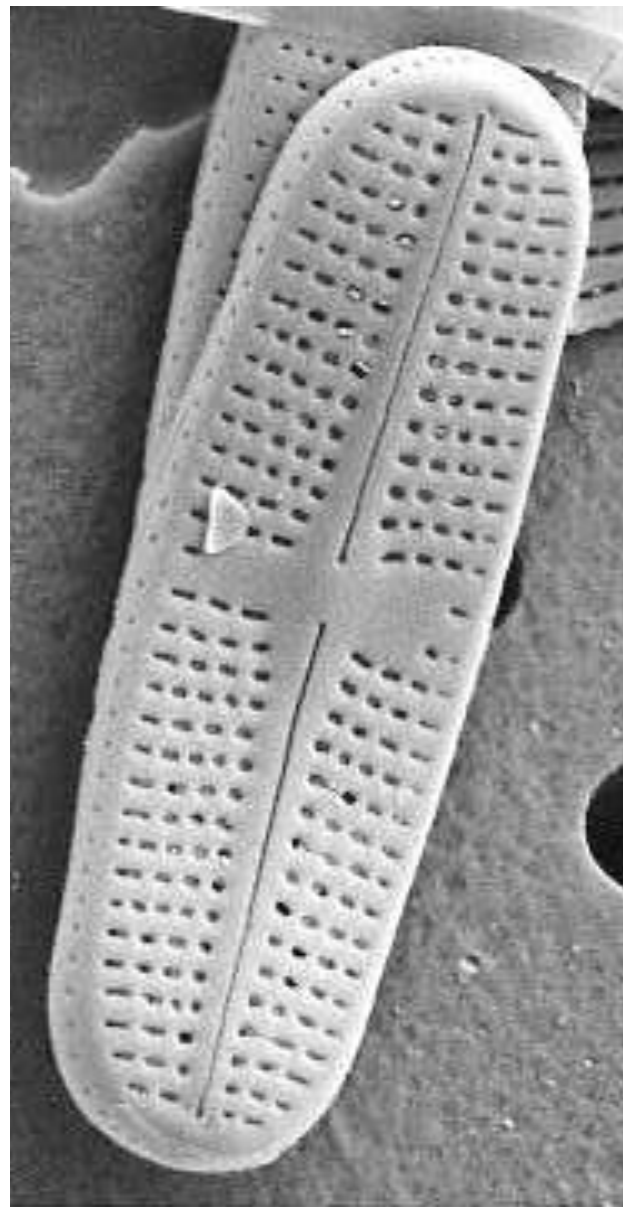
CONFIRMED



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THE WORKSHOP

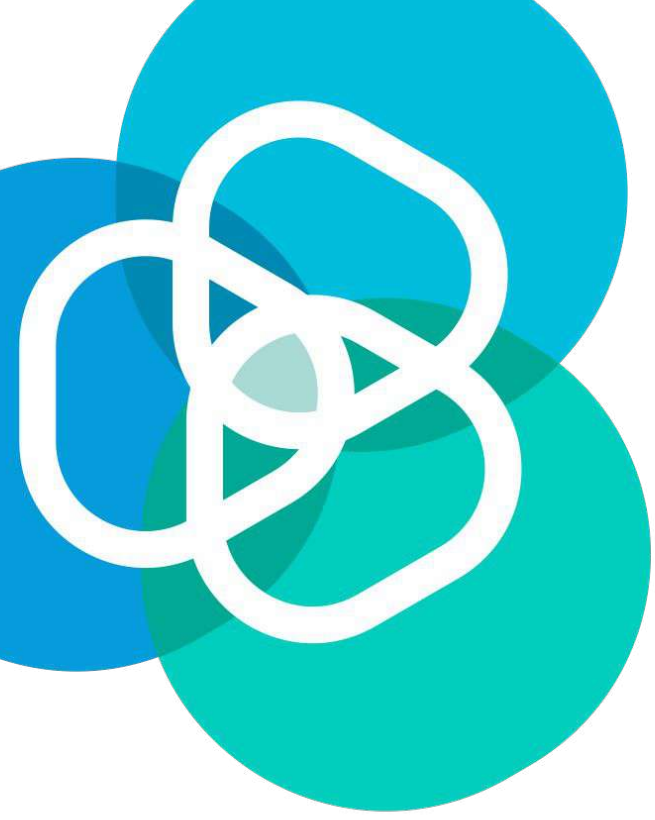


Diatom cultivation

To be decided



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THE WORKSHOP



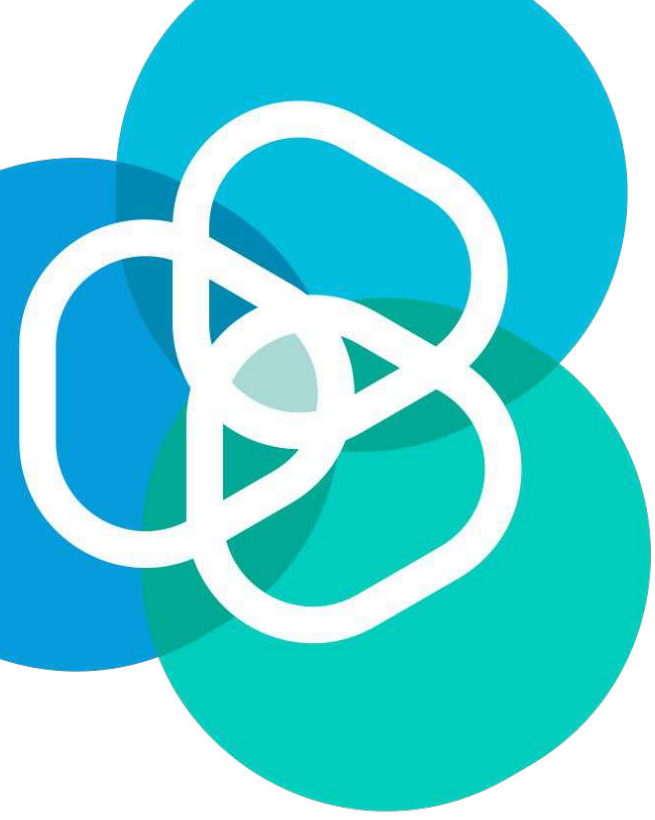
Bacterial cultivation

Dr. Manuela Coci

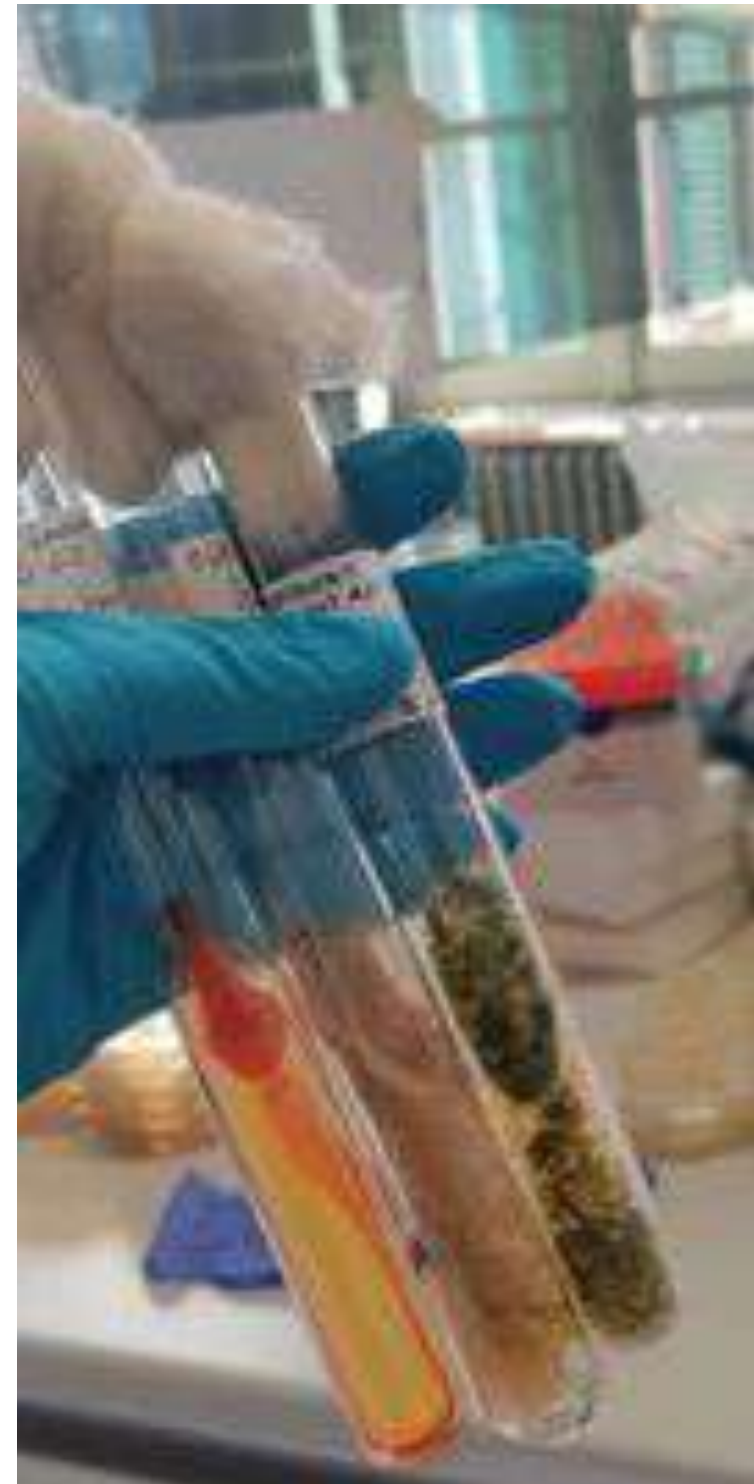
CNR-IRBIM, Ancona IT



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THE WORKSHOP



Microfungal cultivation (Asco/Zygo/Basidio)

Dr. Laura Garzoli

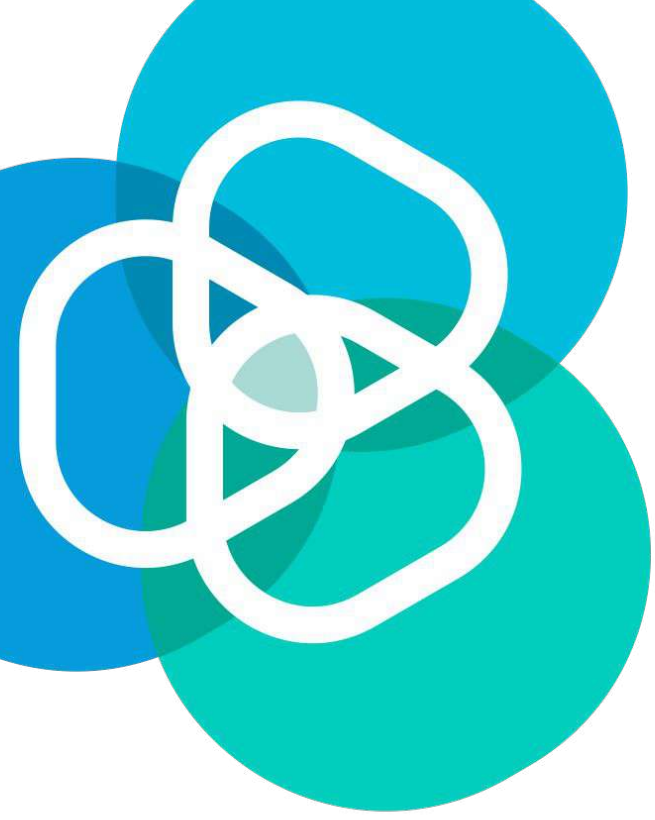
Dr. Pietro Marchese

Dr. Selene Chinaglia

CNR-IRSA, Verbania IT



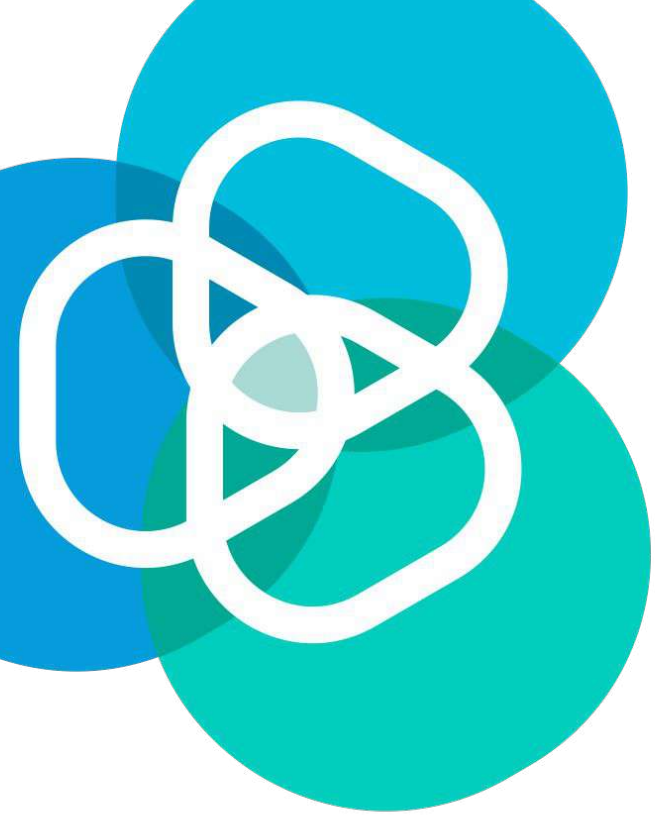
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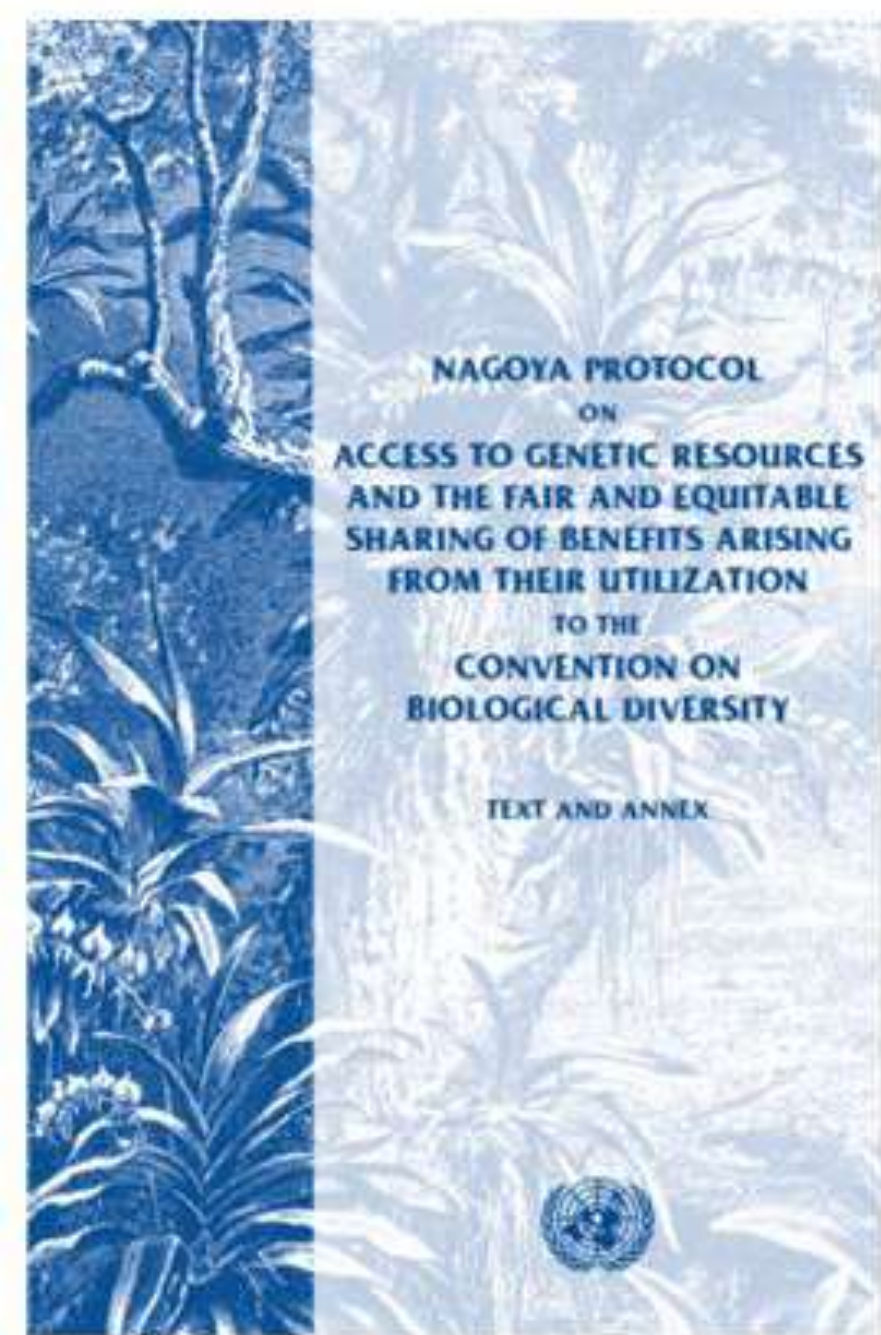
THE WORKSHOP



**Chytrid/Oomycetes culture
TO BE DECIDED**



THE WORKSHOP

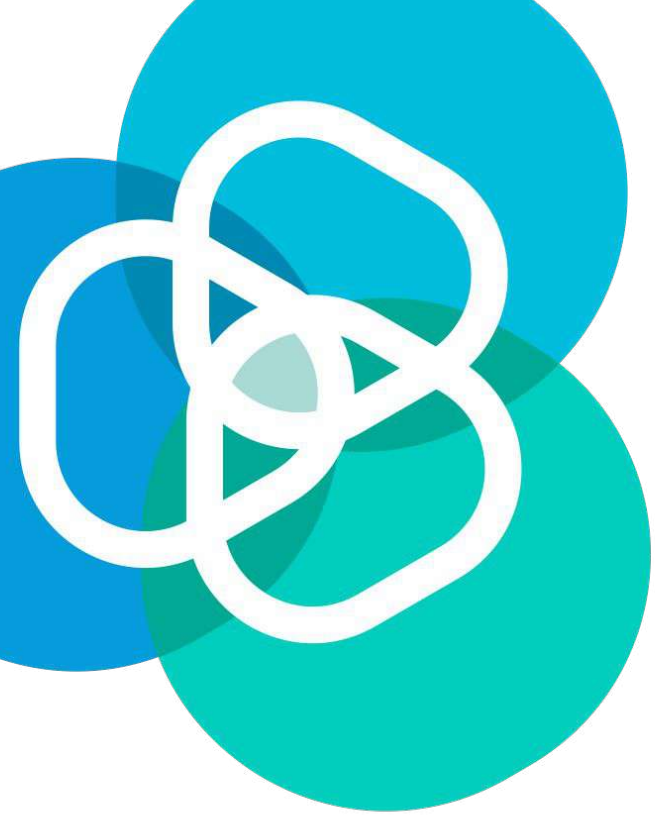


Nagoya protocol

Patent management



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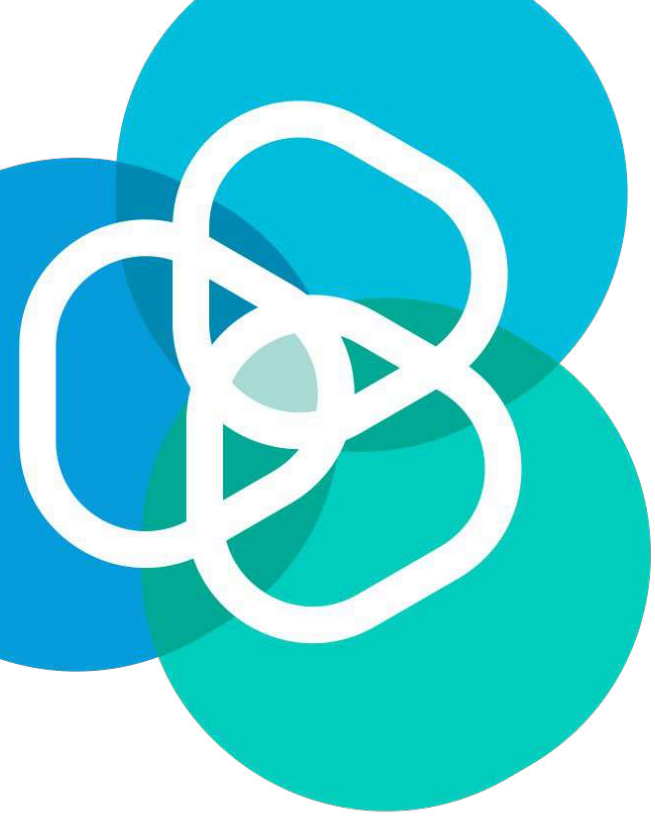
Cryopreservation/lyophilization

Strains dereplication

University of Turin - IT



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THE WORKSHOP

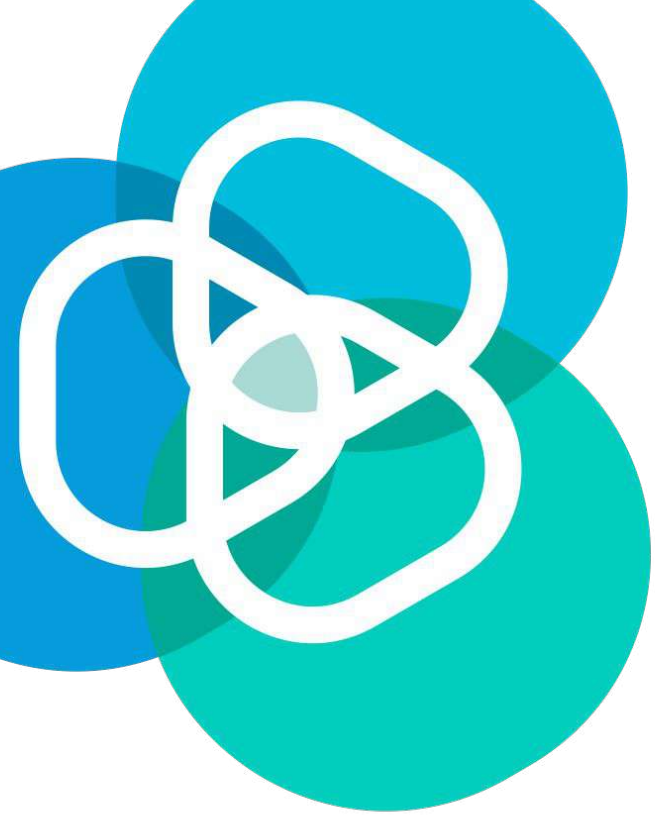


Management of big culture collections MIRRI.ERIC and MIRRI.IT

Prof. Giovanna Cristina Varese
University of Turin - IT



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THE WORKSHOP



European Culture
Collections' Organisation

Management of big culture collections



ECCO

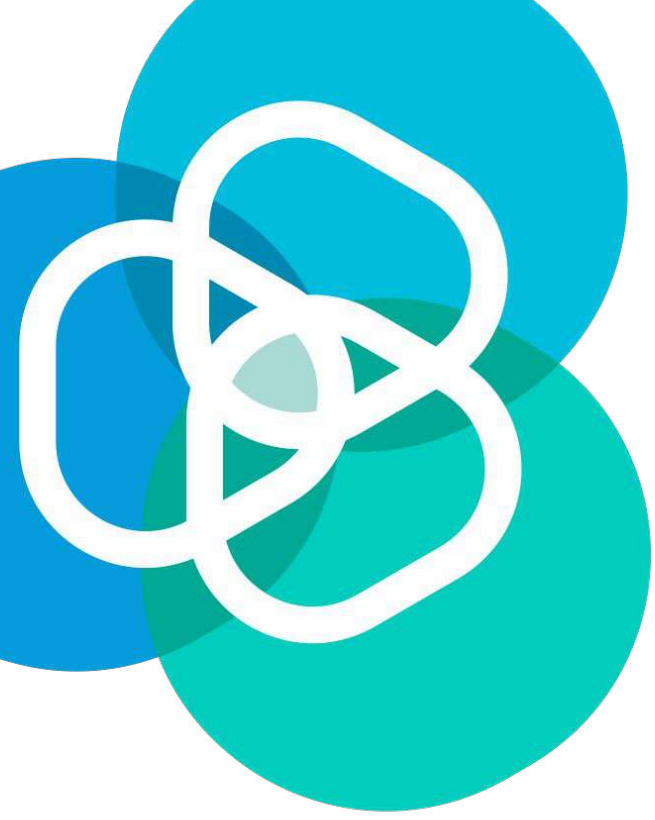
European Culture Collection Organisation

Prof. Maria Gullo

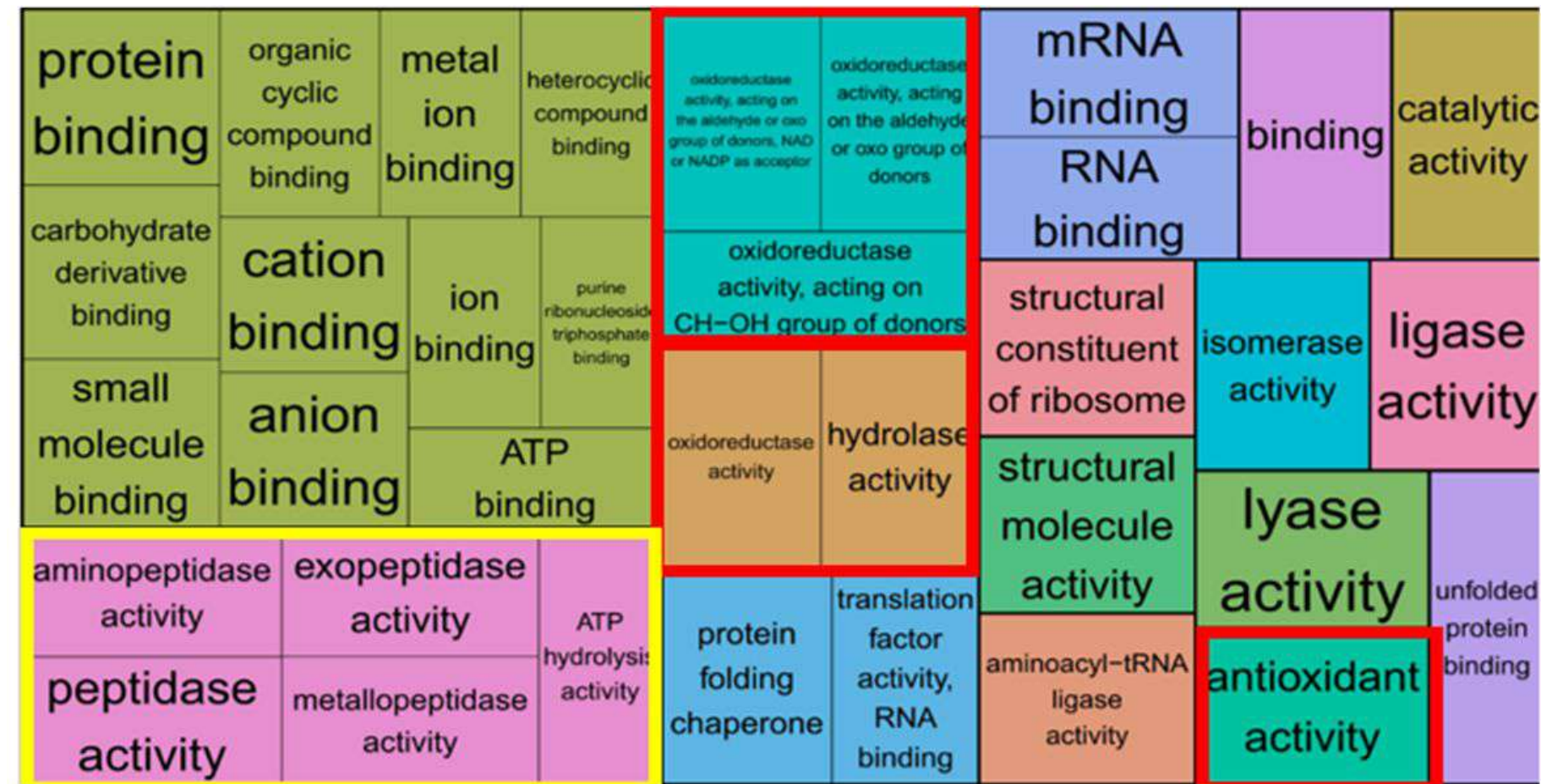
University of Modena and Reggio



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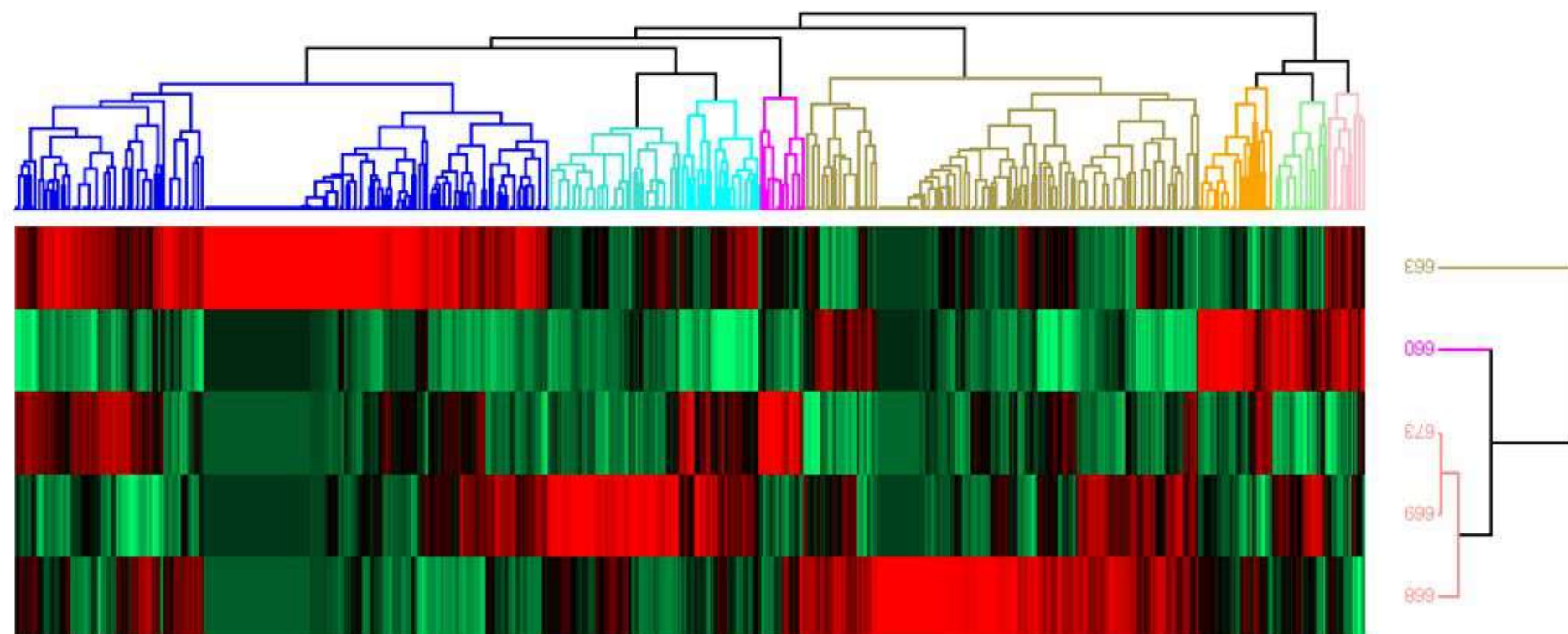


THE WORKSHOP

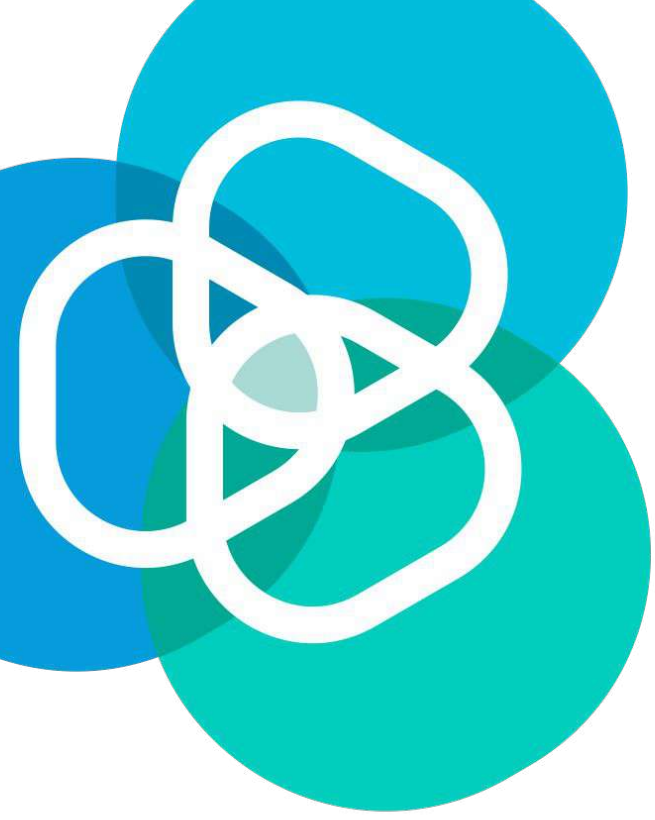


**Valorization and characterization of strains
(e.g. whole genome seq, proteomic)**

Dr. Ester Eckert, Dr. Emanuele Ferrari
CNR-IRSA Verbania



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THE WORKSHOP

www.slido.com #1355519

Expectations and suggestions

<https://wall.sli.do/event/dXqxkqofWvDHpeUyddPA1Q?section=f8cee768-4f99-46eb-9645-4943071614ed>



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ANSWERS (after the survey)

Anonymous

How to get rid of parasites in a microalgae culture?

Anonymous

Assemble fungal genomes from metagenomes?

Anonymous

keeping track of your culture metadata

Anonymous

Successfully isolate host and parasite and keep the system alive

Anonymous

How to isolate properly your strain of interest and avoid contamination

Anonymous

How to keep microalgae collection alive

Anonymous

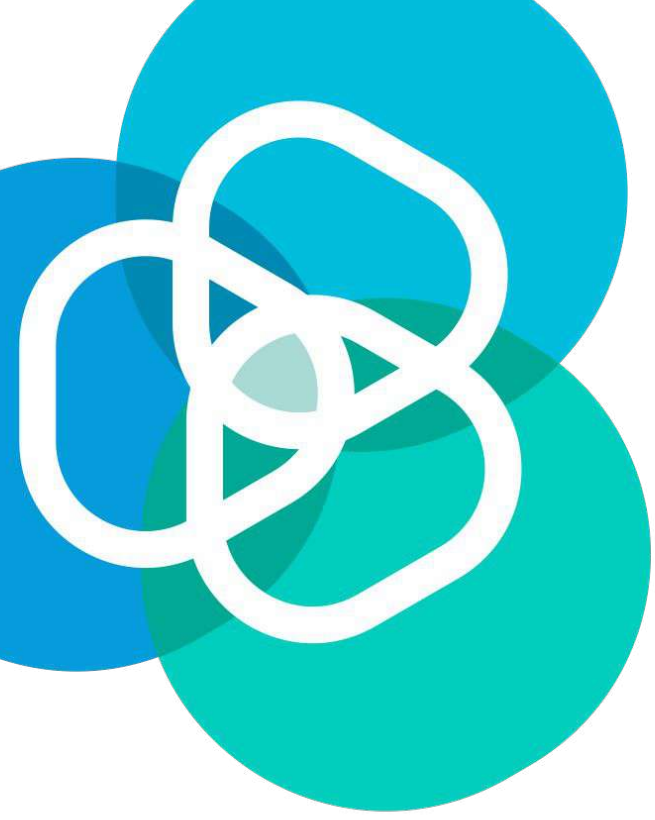
Filamentous cyanobacteria isolation and cultivation

Anonymous

Preparation of culture media for different types of microorganisms

Anonymous

Specific cultivation media and tricks to cultivate from the environment. How to increase the success to culture the unknown?!



Looking forward to the

Workshop "Regulations of culture collections, strains preparation and characterisation"

12-16 May 2025 (3-4 days) CNR-IRSA Pallanza

