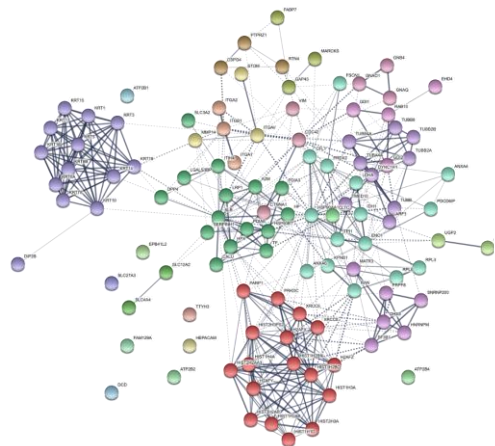


SUS-MIRRI.IT Training Courses

Study of microbial communities in freshwater: from isolation to -omics

Organiser: CNR-IRSA Verbania

22-24 April 2024



Where: online, <https://l.cnr.it/mgu6o>

Teachers: Dr. Cristiana Callieri, Dr. Ester M. Eckert, Dr. Emanuele Ferrari, Dr. Laura Garzoli, Dr. Sven Iburg

Program

Monday, April 22nd

Module 1. Aquatic microbial communities isolation and assessment methods

- 10.00 – 12:00 Methods for isolating fungi and bacteria from aquatic ecosystems (Dr. Laura Garzoli, Dr. Sven Iburg)
- 15.00 – 16.00 Methods for isolating cyanobacteria from aquatic ecosystems (Dr. Cristiana Callieri)

Tuesday, April 23rd

Module 2. Protein identification through nLC-HRMS proteomics and bioinformatic analysis of large protein datasets (Dr. Emanuele Ferrari)

- 10.00 – 12:00 Mass spectrometry applications in proteomics of microbial communities.



- 13.30 – 15.30 Bioinformatics analysis of proteomic data: proteins identification and functional analysis.

Wednesday, April 24th

Module 3. high throughput sequence analysis of amplicon sequencing data (metabarcoding) and analyses of the communities in terms of diversity and composition

(Dr. Ester Eckert)

- 10.00 – 12:00 / 13.30 – 15.30 Analysis of metabarcoding data on bacteria, fungi, and meiofauna. R-based course with packages DADA2, vegan, ggplot2, phyloseq.

Language of the course: English

For information: please write and email to laura.garzoli@cnr.it

Registration to the course:

https://docs.google.com/forms/d/e/1FAIpQLSdjfAjsiT_t2qy0JdOUfbz_FdNZK-mZ19fSkLNaBIAMPn6DQ/viewform?usp=sf_link

Maximum participants: 500