



# ECCO XLIV Scientific Program

## Monday, 14<sup>th</sup> September

12:00-14:00 **Registration and poster mounting**

14:00-14:30 **Opening Ceremony**

**Francisco Martins**, Vice-Rector for Administration, Planning, and Infrastructures  
of the University of the Azores

**Rute Gregório**, Regional Director for Science, Innovation and Development,  
Regional Government of the Azores

**Ana Costa**, Director of the Research Centre in Biodiversity and Genetic  
Resources-Açores

**Gerard Verkley**, President of the European Culture Collection Organization

**Vítor Gonçalves**, Director of the Bank of Algae and Cyanobacteria of the Azores

14:30-15:15 **Keynote Lecture 1 - Chris Bowler** (CNRS, France): *Exploring the Tara Oceans  
multiverse*

15:15-16:30 **Session 1 - Biodiversity, Systematics & Phylogenomics in the OMICs era &  
Session 2 - New approaches in Genomics and Genome-Scale Insights**

*Chairs: Gerard Verkleij & Nelson Lima*

15:15-15:30 **O1. Aniket Saraf** (Institut Pasteur, France): *Hidden diversity of microcystin-  
producing cyanobacteria*

15:30-15:45 **O2. Marino Santos** (University of Porto, Portugal): *Phenotypic differentiation of  
Portuguese Erwinia amylovora collection strains using Fourier-transform infrared  
spectroscopy (FT-IR)*

15:45-16:00 **O3. Neža Čadež** (University of Ljubljana, Slovenia): *Origin of thermotolerant  
Hanseniaspora yeast populations and their adaptation to European vineyards*

16:00-16:15 **O4. Charles Bachy** (RCC, University of Sorbonne, France): *Culture collections as  
genomic infrastructures: supporting the large-scale sequencing of marine  
microbial eukaryotes within ATLASEA*

16:15-16:30 **O5. Michael Ross** (CCAP, SAMS, UK): *Metabolomics at the Culture Collection of  
Algae and Protozoa (CCAP)*

16:30-17:00 **Posters Session & Coffee Break**



**17:00-18:45 Session 3 - Microbiomes: Maintenance, Function, and Applications & Session  
4 - Valorization of culture collections and strains: Biotechnology,  
Pharmaceutical and Ecological applications**

*Chairs: David Novotný & Marizeth Groenewald*

- 17:00-17:15 O6. Perrine Portier** (INRAE, France): *From single strains to complex microbiota: how can biological resource centres tackle this challenge and adapt?*
- 17:15-17:30 O7. Luigi Chessa** (Agris Sardegna, Italy): *Microbial Biodiversity as a Living Resource for the Conservation of Typicity and the Valorisation of Traditional Food Systems*
- 17:30-17:45 O8. Lars Möller** (DSMZ, Germany): *Long-term preservation of complex soil microbial communities and their functions*
- 17:45-18:00 O9. Giancarlo Perrone** (ISPA, CNR, Italy): *The challenge of microbiome preservation from fermented food: the successful story of preserving the microbial consortia associated with Italian table olives*
- 18:00-18:15 O10. Nelson Simões** (CBA, UAc, Portugal): *The repository of entomopathogens of Centre of Biotechnology of the Azores: cultures and libraries*
- 18:15-18:30 O11. Duarte Toubarro** (CBA, UAc, Portugal): *Valorization of the Azorean Microbial Culture Collection through Biorefinery and Bioactive Molecule Discovery*
- 18:30-18:45 O12. Eyal Kurzbaum** (SRI, University of Haifa, Israel): *Strain diversity and biotechnological characterization of *Psilocybe cubensis* cultures*
- 19:00-21:30 Welcome Cocktail**



## Tuesday, 15<sup>th</sup> September

|             |                                                                                                                                                                                                                                                                                                       |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 09:00-09:45 | <b>Keynote Lecture 2 - Pedro Leão</b> (CIIMAR, Portugal): <i>Discovery of unique chemistry and enzymology from the LEGE-CC cyanobacteria</i>                                                                                                                                                          |
| 09:45-11:00 | <b>Session 4 - Valorization of culture collections and strains: Biotechnology, Pharmaceutical and Ecological applications &amp; Session 5 - Ethical and legal challenges of collection management</b><br><i>Chairs: Wieland Meyer &amp; Raquel Hurtado-Ortiz</i>                                      |
| 09:45-10:00 | <b>O13. João Manoel</b> (BACA, CIBIO, Uac, Portugal): <i>Unlocking the potential of the Bank of Algae and Cyanobacteria of the Azores : From Native Diversity into Applied Biotechnology</i>                                                                                                          |
| 10:00-10:15 | <b>O14. Federica Spina</b> (University of Torino, Italy): <i>The Fungal Kingdom Against Micropollutants: Unveiling Its Potential for the Bioremediation of Contaminants of Emerging Concern</i>                                                                                                       |
| 10:15-10:30 | <b>O15. António Machado</b> (CIBIO, UAc, USFQ, Portugal): <i>Antibiofilm activity of Lactobacillus -derived cell-free supernatants against mono-, dual-, and tri-species interkingdom biofilms</i>                                                                                                    |
| 10:30-10:45 | <b>O16. Amber H. Scholz</b> (DSMZ, Germany): <i>More ABS?? What do culture collections need to know about the new High Seas Treaty and the WHO Pathogen ABS systems?</i>                                                                                                                              |
| 10:45-11:00 | <b>O17. Adil Ennaji</b> (BCCM, Belgium): <i>From Isolation to Valorisation: A Focus on the International Depositary Authority under the Budapest Treaty. A brief introduction to the international patent system for inventions making use of microorganisms, and a discussion of a topical issue</i> |
| 11:00-11:30 | <b>Posters Session &amp; Coffee Break</b>                                                                                                                                                                                                                                                             |
| 11:30-13:00 | ECCO XLIV Annual General Meeting (Members only)                                                                                                                                                                                                                                                       |
| 13:00-14:30 | <b>Lunch</b>                                                                                                                                                                                                                                                                                          |
| 14:30-19:00 | <b>Social Event</b>                                                                                                                                                                                                                                                                                   |
| 20:00-23:00 | <b>Dinner</b>                                                                                                                                                                                                                                                                                         |



## Wednesday, 16<sup>th</sup> September

|             |                                                                                                                                                                                                                                                |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 09:00-09:45 | <b>Keynote Lecture 3 - Tanja Kostic</b> (AIT, Austria): <i>Microbiome Biobanking: Navigating Complexity – Insights from the MICROBE Journey</i>                                                                                                |
| 09:45-11:00 | <b>Session 6 - Culture collection management and maintenance &amp; Session 7 - Projects, Networks and databases</b><br><i>Chairs: Cristina Varese &amp; Wouter De Schamphelaire</i>                                                            |
| 09:45-10:00 | <b>O18. Elias El Zouki</b> (BACA, CIBIO, Portugal): <i>Evaluation of Cyanobacterial and Dinoflagellate Extracts for Alzheimer's Disease-Relevant Effects Using Zebrafish Larvae (Danio rerio)</i>                                              |
| 10:00-10:15 | <b>O19. Matteo Florio Furno</b> (University of Turin, Italy): <i>Insights from the Cladosporium cladosporioides Species Complex: MALDI-TOF MS identification in fungal culture collections</i>                                                 |
| 10:15-10:30 | <b>O20. Belén Baena</b> (BEA, ULPGC, Spain): <i>From culture collection to genomic resource: unlocking cyanobacterial biodiversity and biotechnological potential in the Spanish Bank of Algae (BEA)</i>                                       |
| 10:30-10:45 | <b>O21. Marco Anteghini</b> (LifeGlimmer, Germany): <i>Metis: a Biosecurity-Aware Decision Support System for Microbial Strain Discovery in Biotechnology</i>                                                                                  |
| 10:45-11:00 | <b>O22. Felix Mikus</b> (University of Geneva, Switzerland): <i>ExÂME - An Expansion Microscopy atlas of microbial eukaryotes</i>                                                                                                              |
| 11:00-11:30 | <b>Posters Session &amp; Coffee Break</b>                                                                                                                                                                                                      |
| 11:30-13:00 | <b>Session 7 - Projects, Networks and databases &amp; Session 8 - Open Science, Data Sharing &amp; Science Communication</b><br><i>Chairs: Vítor Gonçalves &amp; Rosa Aznar</i>                                                                |
| 11:30-12:00 | <b>O23. Ana Portugal</b> (MIRRI-PT, Portugal): <i>MIRRI-ERIC's Roadmap for FAIR Microbial Resources</i>                                                                                                                                        |
| 12:00-12:15 | <b>O24. Lorenz Reimer</b> (DSMZ, Germany): <i>From BacDive to MicrobeDive: Moving towards a multi-domain strain knowledge base</i>                                                                                                             |
| 12:15-12:30 | <b>O25. Gabriel Bombo</b> (GreenCoLab, Portugal): <i>Industrial Biotechnology Algal Bank (IBAB): Supporting Research, Innovation, and Scalability in Blue Biotechnology</i>                                                                    |
| 12:30-12:45 | <b>O26. Edward Moore</b> (CCUG, SU, UGOT, Sweden): <i>The International Code of Nomenclature of Prokaryotes and the International Committee on Systematics of Prokaryotes and Relevance for Bacterial Culture Collections and Microbiology</i> |
| 12:45-13:00 | <b>O27. Rita Patarra</b> (Expolab, Portugal): <i>Science Communication for Diverse Audiences: The Role of Science Centres in Promoting Scientific Literacy</i>                                                                                 |
| 13:00-13:15 | <b>Closing Ceremony</b>                                                                                                                                                                                                                        |



|             |                                                                                                                                                                            |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13:15-14:30 | Lunch                                                                                                                                                                      |
| 14:30-18:00 | <b>Workshops</b>                                                                                                                                                           |
| 14:30-16:00 | Davide Faggionato & Amber Scholz (DSMZ), Tanja Kostic (AIT): <i>Beyond Traditional Collections: Enabling Sustainable Microbiome Biobanking Services</i>                    |
| 16:00-16:30 | Coffee Break                                                                                                                                                               |
| 16:30-18:00 | Marco Anteghini (LifeGlimmer) & Lornz Reimer (DSMZ): <i>From natural-language questions to strain shortlists: co-designing Metis with the culture-collection community</i> |