

Monday, 8 July

09:00-09:30 Registration (Room E107, DEQ, FEUP)

Opening Session (Room E107, DEQ, FEUP)

9:30-09:40

Welcome: Renato Natal Jorge (FEUP Subdirector)

Manuel Simões (LEPABE)

Introduction of UPhDExperience 2024: Pedro Rodrigues (UPorto Vice-Rector for Research, Innovation and Internationalization)

Session 1 (moderator: Andreia S. Azevedo, ALiCE-LEPABE, FEUP) (Room E107, DEQ, FEUP)

9:40-10:00 *Microbial Communities*, Luísa Peixe (UCIBIO, FFUP)

10:00-10:10 *Unraveling the roles of Sialidase and Vaginolysin in Gardnerella spp.*, Márcia Sousa (UCIBIO, FFUP)

10:10-10:30 *Biofilms: Structured Microbial Communities*, Nuno F. Azevedo (ALiCE-LEPABE, FEUP)

10:30-10:40 *Crossing the Bacterial Envelope: Nucleic Acid Mimics in The Fight Against Resistant Bacteria*, Mariana Gomes (ALiCE-LEPABE, FEUP)

10:40-11:00 - Coffee break

11:00-11:20 *Unveiling the Role of "Social" Microbial Networking in Infections*, Anabela Borges (ALiCE-LEPABE, FEUP)

11:20-11:30 *Harnessing the Power of Natural Photosensitizers Combined with Antibiotics to Improve Antimicrobial Photodynamic Inactivation of Pseudomonas aeruginosa Biofilms in Chronic Wound Infections*, Ariana Gonçalves (ALiCE-LEPABE, FEUP)

11:30-11:40 *Utilizing Transcriptomics to Map Functionality in a Multispecies Chronic Wound Model*, Vânia Pinheiro (ALiCE-LEPABE, FEUP)

12:30-14:00 Lunch break (Included)

Session 2 (moderator: Benedita Sampaio Maia, i3S, FMDUP) (Room E107, DEQ, FEUP)

14:00-14:20 *The Oral Microbiome in Health and Disease*, Benedita Sampaio Maia (i3S, FMDUP)

14:20-14:30 *Oralbioborn: A Cohort to Unravel the Role of Maternal Cardiometabolic Disease in The Microbiome Aquisition in Early-Life*, Inês Magalhães (i3S, FMDUP)/Juliana Morais (i3S, FMUP)

14:30-14:50 *Bringing the Understanding of Microbes in Their Natural Environments*, Catarina Magalhães (CIIMAR, FCUP)

14:50-15:00 *The Big Small Changes in A Glaciated Fjord*, Eva Lopes (CIIMAR, FCUP)

15:00-15:20 *Precision Diagnostics for Pathogen Detection and Antimicrobial Resistance Surveillance*, Rute Oliveira (i3S)

15:20-15:30 *Clinical Metagenomics: Decoding Pathogen Genomes to Unlock Clues to Antimicrobial Resistance*, Cristina Mesquita (i3S)

Tuesday, 9 July

Session 3 (moderator: Albano Beja-Pereira, CIBIO, FCUP) (Room E107, DEQ, FEUP)

10:00-10:20 *Building the Agrifood Holobiome: Unveiling the Microbial Landscape*, Albano Beja-Pereira (CIBIO, FCUP)

10:20-10:30 *Characterization of The Dairy Farm Holobiome*, Sofia Coimbra (CIBIO, FCUP)

10:30-11:00 - Coffee break

11:00-11:10 *Exploring the Gut Microbiome of Portuguese Native Small Ruminant Breeds*, Nellia Felicity Nyoni (CIBIO, FCUP)

11:10-11:30 *Microbiome in GI Cancers*, Rui Ferreira (IPATIMUP, i3S)

11:30-11:40 *Methods for Studying the Microbiome*, Joana Marques (IPATIMUP, i3S)

12:30-14:00 Lunch break (Included)

Session 4 (moderator: Ana Paula Mucha, CIIMAR) (Room E107, DEQ, FEUP)

14:00-14:20 *Bioremediation: Microorganisms Cleaning the Environment*, Ana Paula Mucha (CIIMAR)

14:20-14:30 *Adapting to Change: Bioremediation Potential of Microbial Communities from Plastic and Hydrocarbon-Polluted Environments*, Rafaela Perdigão (CIIMAR)

14:30-14:50 *Seas of Potential: Harnessing Marine Actinobacteria for Unveiling Novel Bioactive Compounds*, Maria de Fátima Carvalho (CIIMAR)

14:50-15:00 *Marine Sponges' Hidden Gems: Exploring the Antimicrobial and Cytotoxic Potential of Marine-Sponge Associated Actinobacteria*, Mariana Oliveira (CIIMAR, ICBAS)

15:00-15:20 *The Key Is in The Gut: Mining the Fish Gut Microbial Communities for Bacterial-Based Solutions to Aquaculture Problems*, Cláudia Serra (CIIMAR, FCUP)

15:20-15:30 *Bacillus Spores as Antigen-Delivery Vehicles for Mucosal Immunization in Fish*, Gabriela Gonçalves (CIIMAR, FCUP)

15:30-16:30 Participants introduce themselves

17:00 Social Event: "Networking Happy Hour" (FEUP)

Wednesday, 10 July

09:00-12:00 Internship (Shadow PhD student)

12:00-13:00 *Lunch break (Free)*

13:00-17:00 Internship (Shadow PhD student)

Thursday, 11 July

09:00-12:00 Internship (Shadow PhD student)

12:00-13:00 *Lunch break (Free)*

13:00-17:00 Internship (Shadow PhD student)

Friday, 12 July

Break day