

Thursday, 24th October 2019

9.00 - 9.30	Registration
9.30 -10.00	Opening session (Organizing Committee and the Dean of FEUP)
10.00 - 10.40	Plenary lecture (Session Chair: Olga Nunes) <u>Concepción Calvo, Department of Microbiology, Institute of Water Research, University of Granada, Spain</u> An innovative technology for the treatment of wastewater polluted with hydrocarbons based on adsorption-biodegradation processes
10.40 -11.00	Coffee break
Session 1. Degradation of contaminants of emerging concern (Chairs: Philippe Corvini and Clementina Pozo)	
11.00 - 11.30	Keynote speaker: Philippe Corvini, Institute for Ecopreneurship, School of Life Sciences, University of Applied Sciences Northwestern Switzerland, Switzerland Bacteria feeding on antibiotics – eating the poisonous
11.30 -12.30	Oral communications (10 min + 5 min discussion)
11.30-11.45	Use of light-driven advanced oxidation processes as tertiary treatment for pharmaceutical removal from urban wastewater (Antonio Monteoliva-García, Spain)
11.45-12.00	Degradation of climbazole and fluconazole in intermittently loaded constructed wetlands (Adam Sochacki, Czech Republic)
12.00-12.15	Fate of tetracyclines and sulphonamides in vegetable crops irrigated with wastewater after mycoremediation (mycoaugmentation) treatment (Raquel Camacho-Arévalo, Spain)
12.15-12.30	Strain Rhodococcus sp. ED55 isolated from a WWTP in Macao degrades β -estradiol and removes toxicity of treated effluents (Irina Moreira, Portugal)
12.30 - 14.00	Lunch break/Poster session
Session 2. New technologies in biotreatment (Chairs: Federico Aulenta and Hervé Bercovier)	
14.00 - 14.30	Keynote speaker: Federico Aulenta, Water Research Institute (IRSA), National Research Council (CNR), Italy Novel electrobioremediation strategies for cleaning up sediments contaminated by petroleum hydrocarbons
14.30 -15.30	Oral communications (10 min + 5 min discussion)
14.30-14.45	In-situ electrobioremediation of soil polluted with 2,4-dichlorophenoxyacetic acid (José Villaseñor Camacho, Spain)
14.45-15.00	Organic carbon source effect over the performance and the microbial community in a groundwater denitrifying granular sludge bioreactor (Alejandro Gonzalez Martinez, Spain)
15.00-15.15	Electrokinetic technology for the remediation of contaminants of emergent concern in soil: feasibility assessment (Nazaré Couto, Portugal)
15.15-15.30	Application of ultrasounds for membrane cleaning: Study of the microbial biofilm community (Alfonso Rodríguez Calvo, Spain)
Session 3. Anthropogenic impacts on the microbial communities (Chair: Ana García Ruiz)	
15.30 - 16.00	Keynote speaker: Balbina Nogales, Department of Microbiology, University of the Balearic Islands, Spain Marine microbial communities facing hydrocarbons: victims, survivors and opportunists
16.00 - 16.30	Coffee break/Poster session
Session 4. New biodegraders and consortium-based strategies: consortia (Chairs: Angeles Prieto and David Dowling)	
16.30 - 17.00	Keynote speaker: Angeles Prieto-Fernández, Galician Institute of Agrobiological Research of the Spanish National Research Council, Santiago de Compostela, Spain Phytotechnologies for metal rich and contaminated soils: potential role of plant associated bacteria
17.00 - 18.00	Oral communications (10 min + 5 min discussion)
17.00-17.15	Adaptive wastewater microbiome evolution towards hydrocarbon and lipid enhanced bioremediation (Pedro D. Teixeira, Portugal)
17.15-17.30	Proposal of a biotechnological alternative to the use of cassava wastewater generated in flour production in Southern Brazil (Oder Henrique C. Rodrigues, Brasil)
17.30-17.45	Wood pellets as a sustainable organic subproduct to enhance denitrification in constructed wetlands treating oligotrophic nitrate polluted leachates from plant nurseries (Marc Viñas, Spain)
17.45-18.00	Genomic and physiological characterization of <i>Alcaligenes aquatilis</i> QD168 reveals a robust adaptive response to polluted marine environments (Roberto E. Durán, Chile)
18.00 - 20.00	Meeting point for social program (bus) - Visit to the Calem Port wine cellar
20.30 - 23.30	Conference dinner

Friday, 25th October 2019

9.00 - 9.40	Plenary lecture (Chair: Kenneth Timmis) <u>Maria Reis, Department of Chemistry, Faculty of Sciences and Technology, New University of Lisbon, Portugal</u> Prevention of environmental pollution through the conversion of organic wastes into bioplastics
Session 5. Waste recovery (Chairs: Cristina Queda and Joana Dias)	
9.40 - 10.10	Keynote speaker: Cristina Queda, School of Agriculture, University of Lisbon, Portugal The challenges of composting bioresources aiming soil amendment
10.10 -10.40	Oral communications (10 min + 5 min discussion)
10.10 -10.25	Simultaneous pretreatment and bioremediation with white-rot fungal isolates for improving saccharification of grape stalks (Joana M.C. Fernandes, Portugal)
10.25 -10.40	Bioresources from contaminated matrices for the biocontrol of hydrogen sulfide emissions and the recovery of sulphur (Simona Di Gregorio, Italy)
10.40 -11.00	Coffee break
Session 6. Bioremediation of priority pollutants (Chairs: Elisabet Aranda and Michael Seeger)	
11.00 - 11.30	Keynote speaker: Elisabet Aranda, Department of Microbiology, Institute of Water Research, University of Granada, Spain Degradation of pharmaceutical active compounds in fluidized batch bioreactors by xenobiotrophic ascomycetes and microbial community dynamic associated
11.30 -12.40	Oral communications (10 min + 5 min discussion)
11.30-11.45	Full-scale bioremediation of soil and groundwater contaminated with heat transfer fluid (Cynthia Alcántara, Spain)
11.45-12.00	Integration between mycoaugmentation, bacterial metabarcoding and culturomics: designing bio-based approaches to the decontamination of total petroleum hydrocarbons contaminated soil (Ilaria Chicca, Italy)
12.00-12.15	Bioremediation of oil spills in seawater using lyophilized native hydrocarbon-degrading bacteria (Rafaela P. Mendes, Portugal)
12.15-12.30	Bioaugmentation and Biostimulation; Learnings from the Mining Industry (L.W John, Zimbabwe)
12.40 - 14.00	Lunch break/Poster session
Session 7. New technologies & biodegraders in biotreatment (Chairs: Madalena Alves and Jesus Gonzalez-Lopez)	
14.00 - 14.30	Keynote speaker: Madalena Alves, Centre of Biological Engineering, University of Minho, Portugal A wide perspective of carbon materials as catalysts for bioremediation of micropollutants and methanogenesis
14.30 -15.15	Oral communications (10 min + 5 min discussion)
14.30-14.45	Could the magnetic particles reduce phosphorus inputs from a wastewater treatment plant? The case of a Mediterranean Ramsar wetland (Inmaculada Álvarez-Manzaneda, Spain)
14.45-15.00	Innovative strategy for the treatment of landfill leachate: Ascomycetes to deplete contamination and toxicity (Giovanna Siracusa, Italy)
15.00-15.15	Aerobic granular sludge bioreactor performance under different hydrodynamic regimens with or without silver nanoparticles regarding abatement of textile wastewater toxicity (Sofia Sousa, Portugal)
15.15 - 16.15	Session 8. Short Oral Communications
16.15 - 16.30	Coffee break
16.30 - 16.50	Open session: The urgent need for microbiology literacy in society - OPEN ACCESS (YOUTUBE) Kenneth Timmis (Institute of Microbiology, Technical University of Braunschweig, Germany)
16.50 - 17.15	Closing session: Conference take home messages - OPEN ACCESS (YOUTUBE) Milton Costa (Department of Life Sciences, University of Coimbra, Portugal); Kenneth Timmis (Institute of Microbiology, Technical University Braunschweig, Germany)
17.15 - 17.30	Coffee break
17.30 - 18.00	Best posters of young researchers awards (Ana García Ruiz, BBB; Filipe Araújo (to be confirmed), Lipor; Sérgio Silva, Adventech) Fairwell of the Organizing Committee