



International Workshop on Extremophiles: from Adaptative Strategies to Biotechnological Applications (II)



Research Center of Extreme Environments and Extremophiles (CUR-AEE)

December 19th 2024, Messina, Italy - Accademia Peloritana dei Pericolanti, Piazza Pugliatti, 1, Messina

Workshop Information

9:30 – 10:10	Registration	
10:10 – 10:30	Institutional greetings	<p>Prof. S. Magazù (CUR-AEE Director, UniMe, MIFT Department, CISFA President)</p> <p>Prof. N. Spanò (CHIBIOFARAM Department Director)</p> <p>Prof. T. Maugeri (CUR-AEE President)</p> <p>Prof. C. Gugliandolo (CUR-AEE Vice-Director, UniMe, ChiBioFarAm Department)</p>
10:30 – 10:50	Oral presentation: Dr. Cauli E. (Q.A. and Technical Product Manager Lallemand)	From sea depths to industry heights: translating bio-marine science into industrial innovation
10:50 – 11:10	Oral presentation: Dr. Papale M. (CNR-ISP)	PCB-oxidizing bacteria in Arctic and Antarctic lakes: insights into bioremediation potential in polar ecosystems
11:10 – 11:30	Oral presentation: Dr. D'Iglio C. (UniME)	Exploring the adaptation of teleost to deep habitats: the case of study of the longspine snipefish, <i>Macroramphosus scolopax</i> , Linnaeus, 1758
11:30 – 11:50	Oral presentation: Dr. Smedile F. (CNR-ISP)	The enigmatic life in the perennially ice-covered Lake Enigma (Northern Foothills of Victoria Land, Antarctica)
11:50 – 12:10	Oral presentation: Dr. Zammuto V. (UniME)	The marine <i>Bacillus horneckiae</i> SBP3 from astrobiology to biotechnological applications
12.10-13:00	Round table	
13:00 – 14:30	Break/Lunch (Not included)	
14:30 – 14:50	Oral presentation: Prof. Martinez M. (UDEEC, Chile)	Extremophile Bacteria: Challenging adversity or ensuring the continuity of Life?
14:50 – 15:10	Oral presentation: Prof. Campos V. (UDEEC, Chile)	Arsenic biomineralization using sequential biological treatment system and a partial nitrification system-anammox
15:10 – 16:00	Poster session	

Poster:

Aragona K. et al.	Trehalose: Applications in Medical and Pharmaceutical Fields
Boncaldo A. et al.	Extreme and extremophilic environments: Tardigrades
Cusenza B.S. et al.	Halophilic microorganisms from Trapani salt ponds: Bioactive potential and biostimulant applications in sustainable agriculture
Gallo A. et al.	Exploring the environmental, biotechnological, and biomedical potential of Panarea Island's unique microbial communities
Lo Bue A. et al.	Metal-resistant black yeast from Antarctica lakes
Macrì A. et al.	Lipids for biodiesel production from the acidophilic <i>Tetrademus sp.</i> M42 (Chlorophyta)
Marturano L. et al.	Assessment of otolith variability and micro-litter pollution in Antarctic teleostean in relation to Ross Sea water circulation
Plaksina A. et al.	Exploring extremophiles: unveiling <i>Virgibacillus flavescence</i> from Don Juan Pond (Antarctica)
Rappazzo A. et al.	Enrichment, isolation and characterization of heavy-metal tolerant bacteria from polar lacustrine sediments
Ruggeri L. M. et al.	Thermophilic <i>Bacillus sp.</i> strain s7s-1 of marine shallow hydrothermal vent origin as producer of biosurfactant with potential biotechnological applications
Semprebello A. et al.	Extreme Environments: Plants and Trehalose
Sturniolo A. et al.	Extremophiles: Solar System and Glacial Environments

Organizing Committee:

Prof. Maria Teresa Caccamo (UniMe MIFT Department, CISFA Member)
 Prof. Alessandro Sergi (UniMe MIFT Department)
 Prof. Vincenzo Zammuto (UniMe ChiBioFarAm Department)

Scientific Committee:

Prof. Concetta Gugliandolo (CUR-AEE Vice-director, UniMe ChiBioFarAm Department)
 Dott. Angelina Lo Giudice (CNR-ISP Messina)
 Prof. Salvatore Magazù (CUR-AEE Director, UniMe MIFT Department, CISFA President)
 Prof. Miguel Martinez (University of Concepción, Chile)
 Prof. Teresa Maugeri (CUR-AEE President)

Website: <https://curee.unime.it/it>

