

SESSION 28

CSIA and genetic in Soil Bioremediation

THURSDAY 19 SEPTEMBER

14:30 – 16:45 CEST (Central European Summer Time)

White Room
1^o floor

Opening

14:30 Welcome from *Dietmar Müller-Grabherr (COMMON FORUM), Felipe Yunta (JRC-EC), Monica Crisan (IMPEL)*

Presentations

- 14:35** From the isolation and characterization of hydrocarbon-oxidizing bacterial strains to the assessment of their capabilities for bioremediation
Cristina Cavone, Antonio Bucci, Pamela Monaco, Francesca Fantasma, Gino Naclerio (University of Molise), Pietro Rizzo, Fulvio Celico (University of Parma)
- 14:50** Synergism of Endophytic Microbiota and Plants Promotes the Removal of Polycyclic Aromatic Hydrocarbons from the Alfalfa Rhizosphere
Longfei Jiang, Xianghui Cheng, Chunling Luo (Chinese Academy of Sciences)
- 15:05** Compound-Specific Isotope Analysis (CSIA) to assess bioremediation and source forensics of chlorinated solvents in groundwater: applications and field case studies
Sergio Gil Villalba, Orfan Shouakar-Stash (Isotope Tracer Technologies Labs), Erica Oldani, Luca Alberti (Politecnico di Milano), Massimo Marchesi (Sapienza University of Rome)
- 15:20** Unveiling complete natural reductive dechlorination mechanisms of chlorinated ethenes in groundwater: Insights from functional gene analysis
Zhuanxia Zhang, Mukhtiar Ali, Zhiwen Tang, Qi Sun, Qing Wang, Xin Liu, Lipu Yin, Song Yan, Xin Song (Chinese Academy of Science), Minmin Xu (Shandong Academy of Environmental Sciences), Frederic Coulon (Cranfield University)
- 15:35** eDNA: soil microbiome and food health. The case of water reuse
Federica Cattapan (Mérieux NutriSciences)
- 15:50** Evaluation of pollutant biodegradation and its stimulation at a large-scale industrial site based on the combination of innovative monitoring methods
Kevin Kuntze, Anko Fischer (Isodetect) Annika Beckmann (HPC)
- 16:05** Stimulation of electro-active bacteria to degrade petroleum hydrocarbons
Azariel Ruiz-Valencia, Angélique Meunier, Timothy M. Vogel (Université Claude Bernard Lyon1)
- 16:20** Panel discussion moderated by chairs
- 16:45** End of the session

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