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Firenze  
23 - 26 Giugno 2026



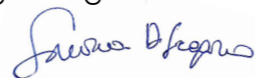
BioRemid2026

The Scientific Committee of the Congress is composed of a prestigious group of internationally renowned academics and researchers from leading universities, research institutions, and innovation centres worldwide. Bringing together a wide range of scientific expertise and perspectives, the Committee ensures the academic strength, quality, and international scope of the Bioremid.

Through their knowledge, experience, and commitment, the members of the Scientific Committee contribute significantly to the development of a high-level scientific programme, encouraging interdisciplinary exchange, research excellence, and collaboration among the international scientific community.

Their presence reflects the Congress's commitment to promoting innovation, advancing knowledge, and fostering dialogue on the most relevant challenges and opportunities within the field.

**Simona Di Gregorio**  
on behalf of the Organising Committee



23<sup>rd</sup> June

Palazzo Vecchio, Salone dei 500

15:30  
Registration of Participants

16:00  
Institutional Greetings

60'

17:00  
**Planary Lecture**  
Environmental biotechnology: challenges and opportunities  
**Teresa Lettieri, European Commission Joint Research Centre**

30'

17:30  
**Planary Lecture**  
A decade from spill to clean-up: LNAPL (bio)remediation in a complex coastal aquifer  
**Alberto Pérez de Mora, Tauw GmbH, DE**

30'

# 24<sup>th</sup> June

## Auditorium Sant'Apollonia

### The contribution of environmental bioremediation to the Clean Industrial Deal in Europe

Morning session: BIOSYSMO, NYMPHE and SYMBIOREM Joint Final Event

09:00  
Welcoming 5'

09:05  
Flash Project introductions by:  
BIOSYSMO, *Sara Gil*, Project Coordinator  
NYMPHE, *Giulio Zanaroli*, Project Coordinator  
SYMBIOREM, *Leire Ruiz Rubio*, Project Coordinator 30'



09:35  
A computational framework supporting biosystem design 15'  
*Lila Otero, IDENER*

09:50  
Soil phytoremediation from lab to field 15'  
*Michel Chalot, UMLP*

10:05  
Scaling-up of BES for groundwater bioremediation 15'  
*Eduard Borrás, LEITAT*



10:20  
TBD 15'  
TBD

10:35  
TBD 15'  
TBD

10:50  
TBD 15'  
TBD

11:05 Coffee break



11:30  
TBD 15'  
*Leire Ruiz, EHU*

11:45  
TBD 15'  
*Mojtaba Ostovar, EHU*

12:00  
TBD 15'  
*José Luis Vilas, EHU*

12:15  
Round table with representative of the three projects 45'

13:00 Lunch break

Afternoon Session:  **ALL4BIOREM** Cluster Session  
Alliance for Environmental Bioremediation

14:00  
Welcoming and introduction 5'

**Level#1: Innovations in bioremediation technologies 14:05 → 14:45** 40'  
TBD  
TBD  
Potential of microbiome-based bioremediation  
*Thomas Reichenauer, AIT - project: MIBIREM*

**Level#2: Addressing barriers: Bioremediation from lab to field 14:45 → 15:30** 45'  
Advancing bioremediation of TPH-contaminated soils towards real-scale implementation  
*Carne Bosch, Eurecat - project: InBioSoil*  
Potential of microbiome-based bioremediation  
*Thomas Reichenauer, AIT - project: MIBIREM*

15:30 Coffee break

**Level#3: Expanding the applications of bioremediation: Bio-based materials 16:00 → 16:30** 30'  
Use of lignocellulosic biomass from remediation practices in the textile industry  
*Tommaso Nieri, NTT - project: pHYBi*

16:30  
Q&A with audience - Wrap up and closing

25<sup>th</sup> June

Hall 1 - Cinema Teatro La Compagnia

**Depolymerize to detoxify: biotool for plastic and biopolymer cleanup**

09:00 15'  
Welcome from the Chair  
**Marco Falconi, ISPRA IMPEL**

09:15 15'  
The implementation of the soil monitoring and resilience directive: challenges and opportunities  
**Bavo Peeters, European Commission - DG Environment**

09:30 15'  
The progress in management of contaminated sites  
**Frank Swartjes, EEA-EIONET, RIVM**

09:45 15'  
Uncertainty and the cost and benefit of the precautionary principle  
**Christian Andersen, COMMON FORUM, Danish Regioner**

10:00 15'  
Economic impact and implications of the Soil Monitoring Law  
**Marco Frey, Scuola Superiore Sant'Anna, IT**

10:15 15'  
Soil policy developments in the Western Balkans region  
**Elena Stefanoni, UNEP**

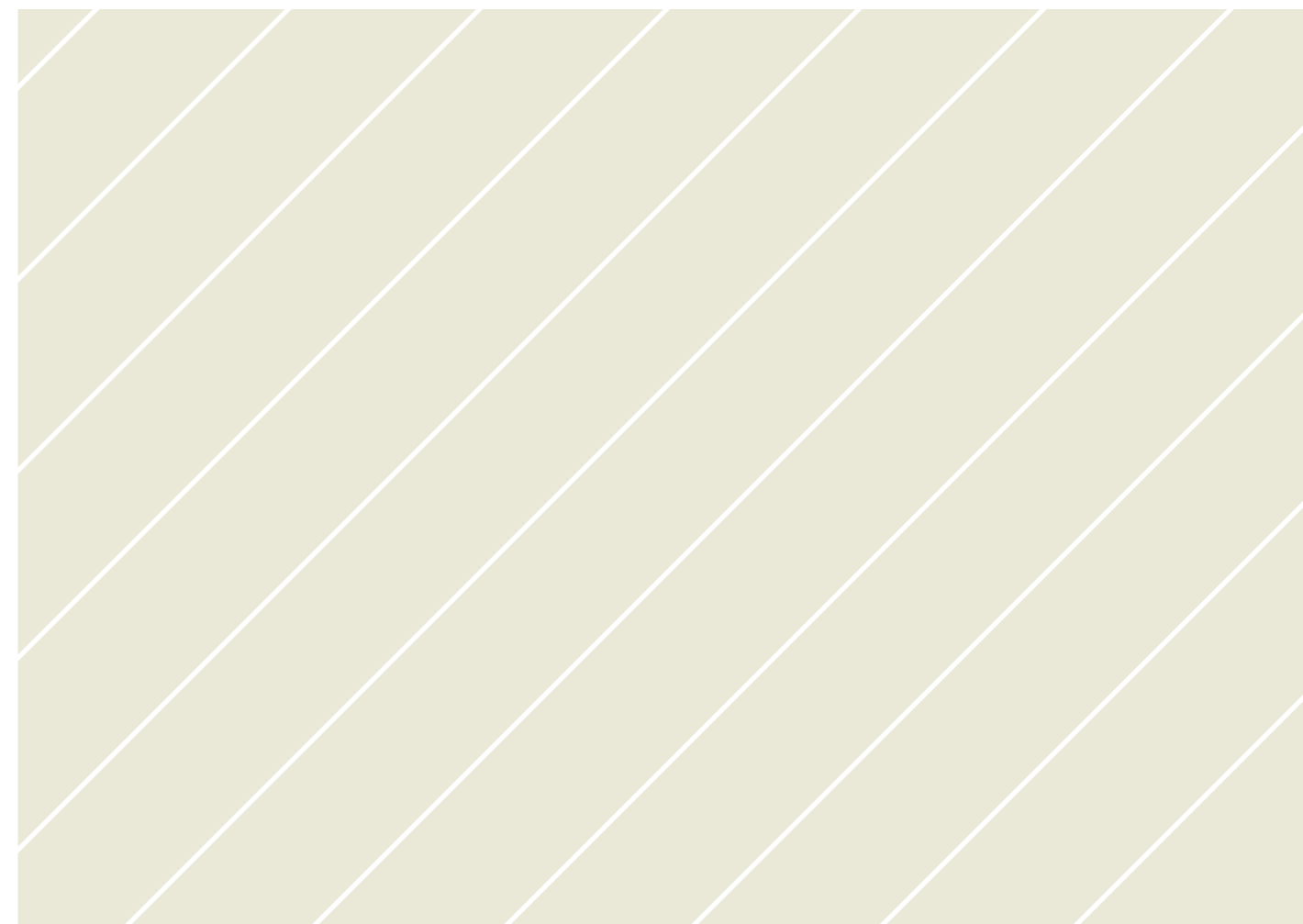
10:30 15'  
Advancing soil monitoring: challenges, progress and integration with european frameworks and the Soil Monitoring Law  
**Felipe Yunta Mezquita, JRC**

10:45 Panel discussion

11:00 **coffee break & poster session**

25<sup>th</sup> June

Hall 2 - Auditorium Sant'Apollonia



25<sup>th</sup> June

Hall 1 - Cinema Teatro La Compagnia

11:30 Plenary Lecture 30'  
Biodegradation of chiral contaminants: implications for environmental risk assessment  
**Rita Lado Ribeiro, University of Porto, PT**

**Beyond the exposome: mapping pollution to health**

12:00 15'  
Integrating soil health into sustainable and risk-based land management  
**Nazaré Couto, CENSE & CHANGE, PT**

12:15 15'  
Soil microbiomes as indicators of emerging contamination: early results from a European-scale survey  
**Lorenzo Pin, ISAFoM, CNR, IT**

12:30 15'  
Ecotoxicity-driven evaluation of innovative bioremediation and restoration strategies across complex environmental matrices of BIOSYSMO project  
**Rubén Martínez, Leitat, SP**

12:45 15'  
LandRisk: A GUI python based software to assess contaminated land risk using Source - Pathway - Receptor setting  
**Pavlos Tyrologou, CENSE & CHANGE, PT**

13:00 15'  
Multi-phase soil conditioning to decouple contaminant toxicity from plant productivity  
**Humberto Castillo González, UMPL, FR**

13:15 5'  
Resistance to antibiotics, biocides and metal(loid)s in bacteria isolated from a highly contaminated brownfield site  
**Alexander Prosenkov University of Oviedo, SP**

13:20 5'  
Tracking toxicity across the bioremediation timeline: Ecotoxicological evidence of hidden risks  
**Magdaléna Dibdiaková, Abitec S.R.O., CZ**

13:25 5'  
Integrated biological technologies for the remediation and requalification of an urban area contaminated by hydrocarbons  
**Paolo De Angelis, Università La Tuscia, IT**

13:30 5'  
Enantioselective Biodegradation of Muscle Relaxants Baclofen, Methocarbamol and atypical Opioide Tilidine in Activated Sludge  
**Arne Krause, BfG, DE**

25<sup>th</sup> June

Hall 2 - Auditorium Sant'Apollonia

**Stabilize, immobilize, restore: in-situ tools for metal cleanup**

12:15 15'  
Phytoremediation, bioaugmentation, and bioelectrochemical system integration for metal(loid)s polluted groundwater remediation  
**Aqib Hassan Ali Khan, ICCRAM, SP**

12:30 15'  
Unravelling metal tolerance in poplar for enhanced phytoremediation solutions: from lab-scale transcriptomics to polluted soil mesocosms.  
**Arturo Redondo Lopez, CSIC, SP**

12:45 15'  
Bioelectrochemical reactors for heavy metal removal from acidic groundwater: performance assessment, mechanistic insights and process modelling  
**Eduard Borràs Camps, Leitat, SP**

13:00 5'  
Cascade bioleaching of ewaste using organic-acid-enriched bacterial spent media for enhanced gold recovery  
**Paula V. Morais, University of Coimbra, PT**

13:05 5'  
Remediation gradient of a mine contaminated soil using compost: effects on plant survival and physiological response  
**Rafael Clemente, CSIC, SP**

13:10 5'  
How provenance and cultivation method shape morphological and physiological traits in the nickel hyperaccumulator *Odontarrhena chalcidica*  
**Benedetta Montanarini, Università di Bologna, IT**

13:15 5'  
From waste to clean water: A low-cost strategy for bioremediation of selenium-contaminated mine waters via immobilized *Stenotrophomonas* cells  
**Esther Peula-Ruiz, University of Granada, SP**

13:20 5'  
Ex-situ evaluation of suitable NbSs for the management of heavy-metal-contaminated substrates from an urban industrial site.  
**Maria Luisa Antenzio, IRET-CNR, IT**

13:25 5'  
Freshwater mussels as tools for metal immobilization: evidence from a long-term translocation experiment with *Unio elongatulus*  
**Simone Savi, IRSA-CNR, IT**

25<sup>th</sup> June

Hall 1 - Cinema Teatro La Compagnia

13:35 **lunch time & poster session**

14:30 **Plenary Lecture** 30'  
Scaling Up Engineering Biology for Bioremediation: From Lab Innovations to Environmental Impacts  
**Frederic Coulon, Cranfield University, UK**

### End to end at real scale: integrated environmental interventions

15:00 15'  
Bioremediation as a sustainable remediation alternative: an integrated evaluation  
**Valérie Cappuyns, KU Leuven, BE**

15:15 15'  
Nitrastur Living Lgb: From site characterisation to in situ pilots for hybrid phytomanagement  
**Verónica Peña-Alvarez, University of Oviedo, SP**

15:30 15'  
Application of *Dehalococcoides* bioaugmentation cultures for reductive biodegradation of chlorinated ethenes at contaminated sites in industrial scale  
**Stephan Hueftmann, Sensatec GmbH, DE**

15:45 15'  
Policy and regulatory frameworks for bioremediation in Europe: barriers and opportunities  
**Anna Espinoza, Luxembourg Institute of Science and Technology, LU**

16:00 5'  
Beyond remediation: an integrated plant-microbe strategy to drive soil development in molasse-based young, reconstructed soil  
**Carmen Mirabelli, Yphen SAS, FR**

### Depolymerize to detoxify: Biotoool for plastic and biopolymer cleanup

▶ 16:05 20'  
**Key note lecture: Herman J. Heipieper, UFZ, DE**  
Biotechnological Recycling and Upcycling of Plastics for a Circular Bioeconomy

16:25 5'  
Assessing the viability of a novel biotechnology to valorize used cooking oil into high-value PHA biopolymers  
**David Correa-Galeote, University of Granada, SP**

16:30 5'  
Unlocking the potential of hypersaline mixed microbial communities for polyhydroxyalkanoate production  
**Serena Falcioni, University of Firenze, IT**

25<sup>th</sup> June

Hall 2 - Auditorium Sant'Apollonia

13:35 **lunch time & poster session** at Hall 1 (Cinema Teatro La Compagnia)

### Bio-based Horizons: novel pathways for aquifer remediation

15:15 15'  
Pilot study on enhanced reductive dechlorination for groundwater remediation at the ex agricultura site, Avenza (MS), Italy  
**Maria Alejandra Decima, EniRewind, IT**

15:30 15'  
Removal of chlorinated compounds by employing bioelectrochemical systems as an hydrogen source for anaerobic biostimulation  
**David Fernández-Verdejo, University of Barcelona, SP**

15:45 15'  
Biogeochemical technology application for the full-scale treatment of an aquifer impacted with chlorocarbons near a salt pond ecosystem in Sardinia, Italy  
**Alberto Leombruni, Evonik, IT**

16:00 15'  
Pharmaceuticals biodegradation in a membrane-aerated biofilm reactor downstream an adsorption treatment  
**Giulio Zanaroli, University of Bologna, IT**

16:15 5'  
Harnessing electro-bioremediation for efficient removal of petroleum hydrocarbons from groundwater: A multi-scale study  
**Diana Losantos, Leitaf, SP**

16:20 5'  
Adaptive strategies of hydrocarbonoclastic bacteria: membrane modifications, morphology, and lifestyle shifts under petroleum hydrocarbon stress  
**Teresa Esparza**

16:25 5'  
Expedited Organo-Halide Destruction via Biostimulation Without Augmentation Supported by Introduction of Abiotic Electron Donor  
**Kent Armstrong, TerraStryke Products LLC, USA**

16:30 5'  
Enhancing Microbial Reductive Dechlorination in Complex Aquifers Using IEG-Biocirculation®  
**Niloufar Falakbaz, IEG Technologie GmbH, DE**

25<sup>th</sup> June

Hall 1 - Cinema Teatro La Compagnia

16:35 coffee break & poster session

## Depolymerize to detoxify: biotool for plastic and biopolymer cleanup

17:00

► **Key note lecture: David Levin, University of Manitoba, CA**  
Toward Engineered Solutions to Pollution

20'

17:20

Genome-scale transcriptional and metabolic profiling of *Rhodococcus opacus* R7 during polyethylene degradation  
**Jessica Zampolli, University of Milano-Bicocca, IT**

15'

17:35

Mining plastic-fed insect guts for autochthonous probiotics enriched in plastic-associated metabolic functions  
**Jesús Salinas, University of Granada, SP**

15'

17:50

Potentials and mechanisms of vermiremediation to enhance bioplastic mineralization  
**Marcus Horn, Leibniz University Hannover, DE**

15'

18:05

Electro-driven bioremediation of microplastics  
**Sebastià Puig, University of Girona, SP**

15'

18:20

Enhancement of polyethylene biodegradation by microbial consortium using co-substrates and enzyme inducers  
**Martin Segado-Perez, University of Almeria, SP**

5'

18:25

Fungal microbiota associated with polypropylene colonization during vegetable waste composting  
**María Jose Estrella-González, University of Almeria, SP**

5'

18:30 closure

25<sup>th</sup> June

Hall 2 - Auditorium Sant'Apollonia

16:35 coffee break

## Bio-based Horizons: novel pathways for aquifer remediation

17:00

From Natural attenuation to pilot-scale bioremediation: managing DNAPL-impacted aquifer source zones  
**Jofre Herrero, University of Barcelona, SP**

15'

17:15

Aerobic oxidation of chlorinated compounds in groundwater  
**Devaki Destri BD Biodigressioni srl, IT e e Alessandro Gentini, Teseco Bonifiche IT**

15'

17:30

Aerobic bioremediation of benzene and chlorobenzene in a polluted aquifer in Sabiñánigo (Spain): in-situ biostimulation pilot test and proteogenomic characterization of the involved *Pseudomonas* strain  
**Dani Salom, University of Barcelona, SP**

15'

17:45

Novel pseudomonads isolated from contaminated soil and groundwater samples across Europe  
**Joni Elsmoortel, Ghent University, BE**

15'

18:00

Evaluation of in-situ biosparging as a hybrid engineering and nature-based remediation approach for mineral oil hydrocarbons at an active industrial site in Spain  
**Kevin Kuntze, Isodetect GmbH**

15'

18:15

Integrated physicochemical and microbial analyses reveal redox-driven microbial community structure in a polycyclic aromatic hydrocarbon-polluted subsurface  
**Simon Vandersanden, University of Hasselt, BE**

5'

18:20

Preliminary field assessment of whey-driven aquifer denitrification: an isotopic evaluation of process efficiency  
**Helena Escalona-Orellana, University of Barcelona, SP**

5'

18:25 closure

# 26<sup>th</sup> June

## Hall 1 - Cinema Teatro La Compagnia

09:00 **Plenary Lecture** 30'  
The holobiont potential: exploring plant-bacteria partnership in contaminated soils  
**Sara Borin Università di Milano, IT**

### End to end at real scale: integrated environmental interventions

09:30 15'  
Bioavailability at the crossroads: nature-based risk reduction of organic pollutants in soils  
**Jose Julio Ortega-Calvo, Instituto de Recursos Naturales y Agrobiología de Sevilla, SP**

09:45 15'  
EUI02-130 GOCCIA – Green opportunities to clean up contaminants through an interspecies alliance: supporting nature-based solutions through hybrid DNA-based microbial quantification  
**Silvia Leoci, M3R S.r.l. IT**

10:00 15'  
An Integrated enhanced reductive dechlorination (ERD) program to overcome the technological asymptote of pump & treat: management of chlorinated organic compound contamination at an active chemical plant (2017–2025)  
**Caterina Di Carlo, Andrea Bortoli, Synsqo, IT**

10:15 15'  
Enhancing reductive dechlorination in aquitards: low-pressure injection strategies for DNAPL source treatment  
**Alberto Millán Martos, University of Barcelona, SP**

10:30 15'  
Development of autochthonous microbial cultures for bioremediation: rethinking bioaugmentation for reliable and scalable field-scale applications  
**Bruna Matturo, IRSA-CNR, IT**

10:45 15'  
Field-Scale mycoremediation of hydrocarbon-contaminated soil using agaricus bisporus spent mushroom substrate (SMS)  
**Cynthia Alcántara Pollo, Kepler, SP**

11:00 **coffee break & poster session**

# 26<sup>th</sup> June

## Hall 2 - Auditorium Sant'Apollonia

### Predict, deploy, degrade: data driven bio-sustainability

09:45 20'  
▶ **Key note lecture: Ned Budisa, University of Manitoba, CA**  
Beyond nature's blueprint: engineering enzymes for a circular bioeconomy

10:05 15'  
A data-driven approach for the optimisation of soil bioremediation  
**Alessandra Suagher, University of Milano-Bicocca, IT**

10:20 15'  
Field-scale prediction of soil microbial activities and pesticide degradation potential using proximal and remote sensing technologies  
**Lukas Y Wick, UFZ, DE**

10:35 5'  
Combined effect of biosurfactants and plants on the bioavailability and biodegradation of PAHs in contaminated soil: an integrated chemical and microbiological approach  
**Davide Rossi, Università degli Studi di Milano-Bicocca, IT**

10:40 5'  
Developing salt-tolerant microbial inoculants to enhance Salicornia growth in IASIS field sites  
**Stéphane Pfendler, Université Marie et Louis Pasteur, FR**

10:45 5'  
Metagenomic insights into the combined effects of temperature and sludge retention time on microbial communities during conventional activated sludge wastewater treatment  
**Sara Ribeirinho-Soares, University of Porto, PT**

10:50 5'  
Who calls granules "home"? Domain-spanning meta-analysis charting microbial ecosystems underlying aerobic granular sludge reactors  
**Leandro Di Gloria, Università di Firenze, IT**

10:55 5'  
Bio-based printable electrodes as sustainable platforms for environmental sensing and circular remediation technologies  
**Raghuraj Singh Chouhan, JSI Institute, SVN**

11:00 **coffee break**

26<sup>th</sup> June

Hall 1 - Cinema Teatro La Compagnia

### Innovative bio-tools for legacy contaminants

11:30 15'  
Beyond microbes: integrative analysis reveals site-specific geochemical drivers of HCH bioremediation  
**Jose Carlos Castilla-Alcantara, ICCRAM, SP**

11:45 15'  
Omics reveal widespread intracellular detoxification of hexachlorocyclohexane and polychlorinated biphenyls in *Cladosporium* fungal species  
**Giampiero De Simone, University of Pisa, IT**

12:00 15'  
From presence to activity: metatranscriptomic profiling of an HCH-depleting microbiome across preservation and growth conditions  
**Giacomo Bernabei, University of Pisa, IT**

12:15 15'  
Surfing in the storm: How bacteria thrive under stress during biodegradation of toxic organic pollutants  
**Michael Seeger, Universidad Tecnica Federico Santa Maria, CL**

12:30 5'  
Spent coffee grounds as a key bio-enhancer during microbial treatment of contaminated soils  
**Cynthia Alcántara Pollo, SP**

12:35 5'  
Bridging infrastructure and nature: integrated monitoring and biodiversity for sustainable roads  
**Giulia Ceribelli, Anas S.p.A., IT**

12:40 5'  
Waste-derived biochar and biosurfactants as circular tools to regenerate hydrocarbon-contaminated soils  
**Andrea Franzetti, University of Milano Bicocca, IT**

12:45 5'  
Bio-electrokinetic Remediation of low-permeable contaminated port sediments: preliminary outcomes of the TREASURE project  
**Alessio Castagnoli, ISPRA, IT**

12:50 5'  
Assembly of autochthonous microbial communities for the biodegradation of mixed hydrocarbons in industrially contaminated soil  
**Elena Biagi, University of Bologna, IT**

12:55 5'  
The phyllosphere as a non-conventional matrix for bioremediation: Simazine degradation by bacteria on avocado leaves  
**Michael Seeger, Universidad Tecnica Federico Santa Maria, CL**

13:00 **lunch time** & **poster session**

26<sup>th</sup> June

Hall 2 - Auditorium Sant'Apollonia

### Innovative bio-tools for emerging and legacy contaminants

11:30 15'  
Multi-integrated biomonitoring for site remediation: insights from case studies TRIREME  
**Bruna Matturro, Trireme srl., IT**

11:45 15'  
ERT-monitored irrigation and bio-based soil amendments for enhanced remediation of contaminated soils  
**Mojtaba Ostovar, UPV/EHU, SP**

12:00 15'  
Synergistic phytoremediation of PAHs via  $\mu$ LUME-isolated consortia and patent-pending hydrophobic alginate bacterial carriers  
**Dmitrii Deev, JSI Institute, SVN**

12:15 15'  
3D-bioprinting of bacterial biofilms for complete removal of pharmaceuticals in nitrifying steps of regenerative life support  
**Cristina Zimmardi, Cranfield University, UK**

12:30 15'  
Testing plant-bacteria systems for bioremediation in estuarine mixed-contaminant microcosms  
**Margarida Pereira, CIIMAR, PT**

12:45 5'  
MOF-biochar composites for the removal of emerging contaminants  
**Majid Sedighi, The University of Manchester, UK**

12:50 5'  
REMEDYOS: integrated bioremediation platform for sustainable remediation of PFAS contaminated ecosystems  
**María J. Lopez, University of Almería, SP**

12:55 5'  
Detoxification monitoring of 5-hydroxymethylfurfural (HMF) by *Ectopseudomonas oleovorans* CECT 5344 using benchtop NMR  
**Mar Gómez Ortega, University of Extremadura, SP**

13:00 **lunch time** & **poster session** at Hall 1 (Cinema Teatro La Compagnia)

26<sup>th</sup> June

Hall 1 - Cinema Teatro La Compagnia

### Innovative bio-tools for emerging and legacy contaminants

14:00 15'  
Bioremediation of TPHs in soil. From the design of a synthetic community (SynCom) to field scale biopiles  
**Rafael Rivilla, Universidad Autónoma de Madrid, SP**

14:15 5'  
Sporosarcina pasteurii urease gene expression regulation mechanism to overcome urease inhibition by hydrocarbons  
**Carla Comadran Casa, University of Glasgow, UK**

14:20 5'  
Microbially driven technetium-99 immobilization by *Pseudodesulfovibrio aespoeensis*: safety implications for high-level radioactive waste disposal  
**Marcos F. Martínez Moreno, Helmholtz-Zentrum Dresden-Rossendorf, DE**

14:25 5'  
Removal of pharmaceuticals in a full-scale constructed wetland system and its on-site intensified physical models  
**Adam Sochacki, Czech University of Life Sciences, CZ**

14:30 5'  
Bioaugmented phytoremediation of cadmium and ketoprofen in estuarine sediments: from microcosm to mesocosm assemblages  
**Rafaela Perdigão, CIIMAR, PT**

14:35 5'  
Treatment of poultry processing wastewater containing 17- $\beta$  estradiol via anaerobic, aerobic and anoxic bioprocesses using carbonized materials as microbial immobilization matrix  
**Analiza Rollon, University of the Philippines, PH**

### Turning the contaminated sea and sediments into blu assets

14:45 15'  
PBSA-degrading microbiome from the marine copepod *Acartia tonsa*  
**Luca Niccolini, OGS, IT**

15:00 15'  
Biodegradation and microbial colonization of different bioplastics at the seawater-sediment interface  
**Eliana Musmeci, University of Bologna, IT**

15:15 15'  
AQuaBioS: an Interreg Italy-France Maritime project for a more sustainable, innovative and resilient aquaculture  
**Elisa Carta, ISPRA, IT**

15:30 15'  
From metabarcoding-guided selection to bioaugmentation: native microbial consortia for crude oil and maritime fuels bioremediation in the port of Leixões  
**André Ferreira, CIIMAR, PT**

26<sup>th</sup> June

Hall 2 - Auditorium Sant'Apollonia

### Innovative bio-tools for emerging and legacy contaminants

14:00 15'  
Towards engineering plant-microbe interfaces for targeted environmental pollutant transformation  
**Tomaz Rijavec, JSI Institute, SVN**

14:15 15'  
Unveiling the potential of biochar immobilised microbial consortia in the removal of venlafaxine and ketoprofen for quaternary treatment in WWTPs  
**Joana P. Fernandes, CIIMAR, PT**

14:30 15'  
Engineering microbial communities: a toolbox for the isolation, assembly, and deployment of functional consortia  
**Ales Lapanje, JSI Institute, SVN**

14:45 15'  
Coupled nano-bio processes for the effective removal of complex mixtures of persistent pollutants from groundwater  
**Iris Barbero, Politecnico di Torino, IT**

15:00 15'  
Genfade: a high-performance vaterite-based assay for real-time monitoring of strain-specific contaminant degradation  
**Kristjan Gašpirc, JSI, SVN**

15:15 15'  
Colonization and enrichment of sulfur oxidizing bacteria in exogenous granular biomass: a novel technology for biogas treatment  
**Cecilia Polizzi, Università di Firenze, IT**

15:30 15'  
Process performances and metagenomic insights of a large scale pilot for the bioremediation of hydrocarbon contaminated soil via mycoaugmentation  
**Andrea Firrincieli, Università la Tuscia, IT**

26<sup>th</sup> June

Hall 1 - Cinema Teatro La Compagnia

### Turning the contaminated sea and sediments into blu assets

15:45 5'  
Turning contaminated fresh water and sediments into blue assets – spotlight on the hyporheic zone  
**Paridhi Soni, Leibniz University Hannover, DE**

15:50 5'  
CIIMAR microbial culture collection (CM2C): a biobank resource for microbial-based bioremediation  
**Joana Fernandes, CIIMAR, PT**

15:55 5'  
Prospects of restoration in coastal marine ecosystems by genome-scale models  
**Simona Rossetti, CNR-IRSA, IT**

16:00 5'  
Assessing LDPE degradation by marine bacteria in long-term microcosms  
**Rafaela Perdigão, CIIMAR, PT**

16:05 5'  
Effect of bioaugmentation seeding ratios of ccs-immobilized microbial isolates and activated sludge on the aerobic treatment of model poultry wastewater  
**Reuben Dasaj P. Lingating Jr., University of the Philippines Diliman, PH**

16:10 **Q&A poster session**

16:30 **Awards and Greetings**

17:00 **Final Toast**

26<sup>th</sup> June

Hall 2 - Auditorium Sant'Apollonia

### Innovative bio-tools for emerging and legacy contaminants

15:45 5'  
Application of saprophytic fungi as a bio-tool for remediation of herbicides in soil and plant health enhancement  
**Mario Paniagua López, EEZ-CSIC, SP**

15:50 5'  
Engineering electrogenic biofilms on Carbon-Based Electrodes assisted by modification of surface by polypyrrole polymerisation  
**Tayebeh Sharifi, JSI Institute, SVN**

15:55 5'  
Potential of multimetal-tolerant *Stenotrophomonas bentonitica* EPS in selenium transformation: insights from genomic analyses and biochemical characterization.  
**Eduardo Perez-Muelas, University of Granada, SP**

16:00 5'  
Thermophilic compost bacteria as a promising approach for removal of diclofenac and related pharmaceuticals from wastewater  
**Francesca Demaria, Fachhochschule Nordwestschweiz, CH**

16:05 5'  
Archaeal ALDH platform: a new frontier in robust and eco-friendly aldehyde bioremediation  
**Giulia Ferrara, Università del Piemonte Orientale, IT**

16:10 5'  
Beyond state-of-the-art: hydrophobic alginate-biochar carriers for the remediation of petroleum hydrocarbons remaining after conventional treatment  
**Maja Zupan, JSI Institute, SVN**

16:15 **Q&A poster session** at Hall 1 (Cinema Teatro La Compagnia)

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