

Poster Board Number	Title	Presenting author	Affiliation	Country
PS1.02.103	<i>Acetate to caproate: metagenomic insights into functional shifts in a methane-arrested anaerobic bioreactor</i>	Laura Schaerer	Colorado State University	United States of America
PS1.02.104	<i>Acyl-Homoserine Lactone-base Quorum Sensing Enhances the Resistance of Anammox Consortia under Heavy Metal Stress</i>	Xi Tang		China
PS1.02.105	<i>Anthropogenic Pollution Primes Microbial Reductive Dehalogenation and Reshapes Organohalide-Respiring Bacteria in Soils</i>	Guofang Xu	Zhejiang University	China
PS1.02.106	<i>Application of Plant Growth-Promoting Bacteria to Enhance Vetiver-Based Phytoremediation in Petroleum Hydrocarbon-Contaminated Environments</i>	Daniella Pessoa	Federal University of Rio de Janeiro	Brazil
PS1.02.107	<i>A probiotic microbial consortium attenuates petroleum-induced physiological stress in <i>Millepora alcicornis</i>: implications for microbial bioremediation under mesocosm conditions</i>	Livia Villela		Brazil
PS1.02.108	<i>Assessing microbial activity against PET-plastic and PHB-bioplastic within PHB-fortified Winogradsky columns sourced from an urban stream</i>	Briar Kidson	University of Canterbury	New Zealand
PS1.02.109	<i>Bacterial inhabitants of coal combustion products, from microbiome analysis to harnessing their power for environmental cleanup</i>	Mikolaj Iwan	University of Warsaw	Poland
PS1.02.110	<i>Beyond Enzymatic Pathways: Chemical Reactions Drive Dinitrogen Formation during Heterotrophic Nitrification by <i>Alcaligenes faecalis</i></i>	Su Qingxian	Beijing Normal University	China
PS1.02.111	<i>Bioconversion and microbial dynamics of black soldier fly larvae reared on diverse land- and marine-based organic waste</i>	Ngan A. K. Tran		New Zealand
PS1.02.112	<i>Bioelectrochemical wetlands configuration shapes microbial community composition, resulting in higher efficiency</i>	Maria Belen Ceretta		Argentina
PS1.02.113	<i>Biogeography of rhamnolipid biosynthesis genes in the global ocean for identification of novel biosurfactant homologs</i>	Tatiana Spatola Rossi	Heriot-Watt University	United Kingdom
PS1.02.114	<i>Candidatus Dermatophostum as a Novel Genus of Polyphosphate-Accumulating Organisms for High-Strength Wastewater Treatment</i>	Feng Ju	Westlake University	China
PS1.02.115	<i>Characterising the multiple-plastic degrading strain of <i>Bacillus subtilis</i> from the <i>Galleria mellonella</i> microbiome</i>	Fiona Facey		Australia
PS1.02.116	<i>Characterization of <i>Dehalogenimonas loeffleri</i> sp. nov. Strain W: A Novel Halotolerant Organohalide-Respiring Bacterium Capable of 1,2-DCA Dechlorination under Elevated Salinity</i>	Hongyan Wang		China

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PS1.02.117	<i>Characterization of Microbial Functions Enriched in the Degradation of Biodegradable Plastics in the Environment</i>	Edeline Anthoniraj		United States of America
PS1.02.118	<i>Clean solutions from dirty genes: Discovery of pollution detoxifying enzymes from uncultivated soil microbes</i>	David Ackerley	Victoria University of Wellington	New Zealand
PS1.02.119	<i>Coupling amino acid fermentation with reverse β-oxidation is an ecological strategy among medium-chain carboxylate-producing organisms</i>	Dinesh Kumar Nallasamy	University of Toronto	Canada
PS1.02.120	<i>Degradation of polyethylene and polypropylene by two Rhodococcus strains isolated from an oil-contaminated soil</i>	Archana V		India
PS1.02.121	<i>Developing a standardised cloning and transformation system to generate markerless bacterial mutants for a broad range of species and environmental applications</i>	Amanda Hopes	University of East Anglia	United Kingdom
PS1.02.122	<i>Development of transformation systems for engineering a range of diverse environmental bacteria</i>	Harry Maguire		United Kingdom
PS1.02.123	<i>Discovering bioemulsifiers from marine bacteria for oil spill remediation</i>	Shreya Kothari	Georgia Institute of Technology	United States of America
PS1.02.124	<i>Discovery and evolutionary analysis of fungal AlmA-like monooxygenases implicated in long-chain alkane oxidation</i>	Qi Yan		China
PS1.02.125	<i>Discovery of robust acetoclastic methanogens from paddy soil for efficient biomethane production</i>	Hyeyeon Park		Korea, Republic of
PS1.02.126	<i>Enhancing microbial petroleum degradation through nutrient enrichment</i>	Laiza Faria		Brazil
PS1.02.127	<i>EPS chemistry in activated sludge is linked to microbial community composition in full-scale wastewater treatment plants across spatial and temporal scales</i>	Marie Riisgaard-Jensen	Aalborg University	Denmark
PS1.02.128	<i>Establishing key microbiota and biodegradation kinetics for organic micropollutant removal during riverbank filtration</i>	Veronika Francekova		Netherlands
PS1.02.129	<i>Experimental and statistical analysis of swimming motility in Pseudomonas extremaustralis 2E-UNGS</i>	Diana Vullo	Universidad Nacional de General Sarmiento	Argentina
PS1.02.130	<i>Genetic basis of metal resistance and tolerance in Pseudomonas extremaustralis 2E-UNGS: A whole-genome approach highlighting its biotechnological potential</i>	Irene Constanza Lazzarini Behrmann	Universidad Nacional de General Sarmiento	Argentina

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PS1.02.131	<i>Genome-resolved correlation network mapping of on-farm pilot scale anaerobic digestion microbiomes converting mixed manure to methane</i>	Juan Santana		Canada
PS1.02.132	<i>Hyper-mesophilic temperature optimizes agricultural anaerobic digestion performance via feedstock-dependent microbial modulation</i>	Bang Du		United Kingdom
PS1.02.133	<i>Identification and Structural Characterization of Novel Bioplastic Depolymerases in Thermophilic Anaerobic Sludge</i>	Minjoo Lee	Yonsei University	Korea, Republic of
PS1.02.134	<i>Identification of a distinct class of nylon-degrading enzyme in a microbial isolate cultured from a superworm gut microbiome</i>	Daryl Barth		United States of America
PS1.02.135	<i>Investigating microbial responses to marine aquaculture sludge in lab-scale biogas reactors using metagenome-centric metaproteomics</i>	Thea O. Andersen	Norwegian University of Life Sciences (NMBU)	Norway
PS1.02.136	<i>Isolation and Characterization of a Novel PBAT-Degrading Bacterium, Piscinibacter sp. SBD7-3 and Its Enzymatic Degradation Mechanism</i>	Hang-Yeon Weon		Korea, Republic of
PS1.02.137	<i>Isolation and characterization of organic micropollutant catabolic bacteria adapted to utilize extreme low substrate concentrations</i>	Xiaolan Zhang	KU Leuven	Belgium
PS1.02.138	<i>Isolation and Characterization of Potential PHB-Degrading Microorganisms from a Landfill in Southern Ontario, Canada</i>	Madison Thomas		Canada
PS1.02.139	<i>Isolation of phylogenetically diverse microorganisms catabolizing atypical sugar enantiomers</i>	Souichiro Kato		Japan
PS1.02.140	<i>Life on plastic: Mapping microbial communities on PE, PVC and PLA in agricultural soils</i>	Benthe Van Buyten		Belgium
PS1.02.141	<i>Life on plastic: microbial colonisation and degradation of microplastics in Viet Nam</i>	Jennifer Scott	Heriot-Watt University	United Kingdom
PS1.02.142	<i>Linking genomic potential to metabolic efficiency in bioaugmented anaerobic digesters for optimised biogas productivity</i>	Linda Obi	North West University	South Africa
PS1.02.143	<i>Long-chain aliphatic hydrocarbon catabolic potential of Alcanivorax spp. strains isolated from Chilean coastal soils</i>	Roberto E. Durán	Universidad Tecnica Federico Santa Maria	Chile
PS1.02.144	<i>Membrane Vesicles Derived from Electroactive Microorganisms Enable Electrically Driven CO₂-to-Formate Conversion</i>	Hinako MASUKAWA		Japan

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PS1.02.145	<i>Microbial Cleavage of C-F Bonds in Polyfluorinated substances: Promises and Pitfalls</i>	Yujie Men	University of California, Riverside	United States of America
PS1.02.146	<i>Microbial communities within geothermally heated soils harbour plastic bioremediation potential</i>	Nikolai Pavlov		New Zealand
PS1.02.147	<i>Microbial community responses to ceramic amendment in coastal sediments of a seasonally hypoxic bay</i>	Takehiro Kosaka	Nagasaki University	Japan
PS1.02.148	<i>Microbial Fate and Behavior in Biosolids Produced using a Novel Alkaline Hydrolysis/Electrochemical Process</i>	Kayleigh Millerick	Texas Tech University	United States of America
PS1.02.149	<i>Mitigating Acetylene Inhibition in Trichloroethene Dechlorination: A Coculture Strategy with <i>Syntrophotalea acetylenivorans</i> SFB93 and <i>Dehalococcoides mccartyi</i></i>	Che-Wei Lu	National Central University	Taiwan, Province of China
PS1.02.150	<i>Optimising <i>Galdieria sulphuraria</i> phycocyanin production from kiwifruit waste</i>	Hamish Lindsay		New Zealand
PS1.02.151	<i>Performance and Microbial Response of Granular Magnetite in Methanogenesis via Direct Interspecies Electron Transfer</i>	Sang-Hoon Lee	Korea University	Korea, Republic of
PS1.02.152	<i>PFHxS Exposure Reshapes the Rhizosphere Microbiome and Functional Networks of <i>Lupinus polyphyllus</i></i>	Chuks Odoh		Australia
PS1.02.153	<i>Plastic and Microplastic Bioremediation: How far we have come</i>	Memory Tekere	University of South Africa	South Africa
PS1.02.154	<i>Plastisphere microbiomes mediate biodegradable mulch film degradation under contrasting nitrogen fertilization</i>	Chris Gathaiya		Israel
PS1.02.155	<i>Polyethylene terephthalate degradation and ligninolytic activity by mangrove fungi from Costa Rica</i>	Stefany Solano		Costa Rica
PS1.02.156	<i>Regenerable Na–MnO₂ assisted bicarbonate capture promotes microalgal CO₂ utilization</i>	Yingao Xu	Zhejiang University	China
PS1.02.157	<i>Selective Enrichment of Viable and Uncultured Bacteria in Rapidly Formed Gel Biofilms in Membrane Bioreactor Treating Municipal Sewage</i>	Toru Miwa		Japan
PS1.02.158	<i>Substrate compatibility in anaerobic co-digestion varies with microbial assembly</i>	Jae Gyeong Kim		Korea, Republic of

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PS1.02.159	<i>The role of temperature and organic matter sources controlling microbial activity and processes</i>	Alex Enrich Prast	Linköping University	Sweden
PS1.02.160	<i>Transcriptome analysis on a bacterial strain with broad metabolic versatility for D- and L-sugar enantiomers</i>	Natsu Iwama	The University of Osaka	Japan
PS1.02.161	<i>Unraveling soil geochemical, geophysical, and microbial determinants of the vertical distribution of organic phosphorus pesticide pollutants</i>	Jie Yang		China
PS1.02.162	<i>Upinngasâk, aujak, & ukiak: Seasonal variation in Nunatsiavut's marine microbiome and potential for diesel biodegradation</i>	Sibley Duckert	University of Calgary	Canada