P001 -P030

Poster Presentation

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M: Managing microbial community

P001-M *Dechloromonas*: to be or not to be a PAO? That is the question!
Francesca Petriglieri, Aalborg University, Denmark

P002-M Problems in Detecting Methanogens in Anaerobic Reactors by 16S rRNA Gene Amplicon Sequencing: Which Method Is More Reliable?
Claudia Etchebehere, Biological Research Insitute Clemente Estable, Uruguay

P003-M Predictive Models of Microbial Bioprocesses Inhibition Can Be Built by Integrating Independent Studies
Olivier Chapleur, IRSTEA, France

P004-M Exploring Microbiomes in Arsenic-rich Aquatic Environments: Structure, Metabolic Potentialities and As-related Functional Genes
Simona Crognale, IRSA-CNR, Italy

P005-M Correlation Between Dominant Filament Kouleothrix (type 1851), the Settleablity of Activated Sludge Biomass, and Other Operating Factors in a Domestic A_2O Plant in Japan
Tadashi Nittami, Yokohama National University, Japan

P006-M *In Situ* RNA Detection Toward Elucidation of Functional Consortium
Kyohei Horio, Hiroshima University, Japan

P007-M Managing the Activated Sludge Community Through Real-time DNA Sequencing
Martin H. Andersen, Aalborg University, Denmark

P008-M Full-scale Activated Sludge Transplantation: a Way to Solve Operational Problems?
Dorottya S Wágner, Aalborg University, Denmark

P009-M Global Sensitivity Analysis of Metabolic Models for Enhanced Biological Phosphorus Removal
Minh Nguyen Quang, University of Bath, United Kingdom

P010-M Linking Microbial Population Dynamics to N_2O Formation in a Nitrification-denitrification Granular Sludge System Treating Slaughterhouse Wastewater
Lennert Dockx, University of Antwerp, Belgium

P011-M Does PAO-related Species in the Influent Perform EBPR in the WWTPs? Field Characterization of PAOs in EBPR Vs Conventional System
Nouha KLAI, McGill University, Canada

P012-M Influence of Solids Retention Time on Process Performance and Microbial Community Dynamics in Mesophilic Anaerobic Digestion of Sludge
Angel Anika Cokro, Singapore Center for Environmental Life Sciences Engineering, Singapore

P013-M Microbiomes in Dam Reservoirs from Northern Japan
Ikuo Tsushima, Public Works Research Institute, Japan

P014-M Improving Salinity Adaptation of Nitrifying Biofilms with Seawater Priming
Sharada Navada, Norwegian University of Science and Technology, Norway

P015-M Microbial Community Transition by Conversion from Anaerobic-Oxic to Conventional Operation in an Activated Sludge Wastewater Treatment Plant
Ryoko Yamamoto-Ikemoto, Kanazawa University, Japan

P016-M Elucidating the Role of Virulence Traits in Abating Solar Irradiation-based Decay
Krishnakumar Sivakumar, King Abdullah University of Science and Technology, Saudi Arabia

P017-M Microbial Successional Dynamics During Start-up and Steady State Operation of a Full-scale Mesophilic Anaerobic Digester
Barbara Tonanzi, IRSA-CNR, Italy

P018-M Managing metabolic association of fermenters and phototrophic purple non-sulfur bacteria for valorization of carbohydrate feedstocks
Marta Cerruti, Delft University of Technology, The Netherlands

P019-M Embracing Immigration - Investigating the Effect of Influent Wastewater on Microbial Community Structure in Water Resource Recovery Facilities
Giulia Dottorini, Aalborg University, Denmark

P020-M Predicting microbial communities in engineered biological systems using modern deep learning models
Kasper Skytte Andersen, Aalborg University, Denmark

P021-M Impact of microbial community composition on the start-up of PNA MABR: Activated sludge vs. DEMON® biomass
Laura Orschler, Technische Universitaet Darmstadt, Germany

P022-M Species richness or abundance in activated sludge vs. partial nitrification anammox systems? Primer selection as a critical determinant of community analysis at lower taxonomic ranks
Laura Orschler, Technische Universitaet Darmstadt, Germany

P023-M Simultaneous determination of in situ maximum specific growth rates for hundreds of bacterial taxa in activated sludge
Mathew Brown, Newcastle University, United Kingdom

P024-M MiDAS 4.0: a comprehensive 16S rRNA reference database of bacteria in wastewater treatment systems across the globe
Morten Simonsen Dueholm, Aalborg University, Denmark

P025-M Species-level diversity of the filamentous Candidatus Microthrix in Danish full-scale WWTPs and their influence on sludge settling properties
Marta Nierychlo, Aalborg University, Denmark

P026-M The New MiDAS Field Guide: Comprehensive online Ecosystem-specific Database of Microorganisms in Wastewater Treatment Systems
Marta Nierychlo, Aalborg University, Denmark

P027-M Influence of Microbial Community Composition on Activated Sludge Floc Properties and Dewaterability
Susan Hove Hansen, Aalborg University, Denmark

P028-M The nitrogen transformation and microbial variation of sewage reclamation to paddy field
Jingjing Duan, Jiangsu Academy of Agricultural Sciences, China

P029-M Occurrence of Ammonia-oxidizing Archaea, Comammox, and *Nitrospira* in a Recirculating Aquaculture System
Preeyaporn Pornkulwat, Chulalongkorn University, Thailand

P030-M Characteristics of Dissolved DNA in Activated Sludge
Shuka Kagemasa, Tohoku University, Japan

P031 -P059

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↓M: Managing microbial community

P031-M *Bacillus subtilis* enhances azo dye decolorization activity of *Enterococcus faecalis*
Yu Yamanashi, Gunma University, Japan

P032-M Shared Bacterial Communities Between Soil, Stored Drinking Water, and Hands in Rural Bangladeshi Households
Erica Fuhrmeister, UC Berkeley, United States

P033-M Microbial Community Analysis in the Bioreactor Treating Methane | Ammonia Contaminated Groundwater
Kazuyoshi Koike, Kanazawa University, Japan

P034-M Built Environment Biofilms: Leveraging Selection and Dispersal to Manage Growth
Caitlin Proctor, Purdue University, United States

P035-M Biological and Environmental Influences on Bacterial Community and Antibiotic Resistome in Activated Sludge Wastewater Treatment Plants
Feng Ju, Westlake University, China

P036-M How Is the Activated Sludge Community Assembled? Investigating the Impact of Influent Immigration
Claire Gibson, McGill University, Canada

P037-M Investigating the ecology of *Arcobacter butzleri* in wastewater and its potential risk to public health
Mariem Oloroso, University of Alberta, Canada

P038-M Antibiotic-induced Changes in *Enterobacter cloacae* SENG-6 Extracellular Polymeric Substances
Mohan Amarasiri, Tohoku University, Japan

P039-M NUFEB: a Massively Parallel Simulator for Individual-based Modelling of Microbial Communities
Bowen Li, Newcastle University, United Kingdom

P040-M Syntrophic Fatty Acid-oxidizing Bacteria and Energy Cooperation with Methanogens in Methanogenic Chemostats
Yue-Qin Tang, Sichuan University, China

P041-M Profiling of Filamentous Bacteria in Activated Sludge by 16S RNA Amplicon-based Sequencing
Jose Alonso, Universitat Politècnica de València, Spain

P042-M Metagenomic Analysis of a Tannery Wastewater Treatment System with Special Focus on Retanning Chemicals Degradation
Adey Desta, Addis Ababa University, Ethiopia

P043-M Elucidating Biodegradation Pathway and Syntrophic Relationship in Anaerobic Benzene Degradation by Methanogenic Enrichment Cultures
Hop Phan, The University of Tokyo, Japan

P044-M Microbiome of high-rate SB-MBBRs treating carbon, nitrogen, and phosphorous from cheese effluent
Alexandra Tsitouras, University of Ottawa, Canada

P045-M Usual and Unusual Features of Microbial Community of a Full-scale Wastewater Treatment Plant Anaerobic Digesters in Dubai; a Next Generation Sequencing Based Analysis.
Munawwar Ali Khan, Zayed University, United Arab Emirates

P046-M Comparative Genome-Centric Analysis of Two Physiologically Distant ANAMMOX Cultures
Muhammad Ali, King Abdullah University of Science and Technology, Saudi Arabia

P047-M Amplicon-based Sequencing for Taxonomic Characterization of Potentially Pathogenic Bacteria in Activated Sludge
Jose Alonso, Universitat Politècnica de València, Spain

P048-M Examining sources of sediment and microbial pollutants in an urban river system
Jill McClary, University of Wisconsin-Milwaukee, United States

P049-M Sewage bacteria follow seasonal trends: microbial community analysis in a five-year time series
Lou LaMartina, University of Wisconsin-Milwaukee, United States

P050-M Incubation with fine bubble aeration affects the growth and properties of *Escherichia coli* and *Pseudomonas aeruginosa*
Tsukasa Ito, Gunma University, Japan

E: Environmental biotechnology

P051-E Enrichment of Comammox *Nitrospira* from Nitrifying Granules by Using Fixed-bed Continuous Feeding Bioreactors
Satoshi Tsuneda, Waseda University, Japan

P052-E Orthophosphate Enhances N_2O Production from Aerobic Hydroxylamine Decomposition: Implications to N_2O Emissions from Ornithogenic Soils and Manure-fertilized Agricultural Soils
Sukhwan Yoon, KAIST, Korea

P053-E A Bioenergetic Metabolic Pathway Analysis of Syntrophic Propionate Degradation in Anaerobic Digestion
Jorge Rodríguez R, Khalifa University - Masdar Institute, United Arab Emirates

P054-E Elucidating a role for anammox S-Layer proteins in promoting biofilm nucleation?
Thomas Seviour, Nanyang Technological University, Singapore

P055-E Nitrification Inhibition by ZnO Nanoparticles: Functional Gene Expression and Respirometric Analysis
Vikram Kapoor, University of Texas at San Antonio, United States

P056-E Waste Activated Sludge Addition Assures the Stable Anaerobic Digestion of Food Waste: Microbiome Changes and Link with Key Process Parameters
Barbara Tonanzi, IRSA-CNR, Italy

P057-E Architecture and Microbiome of Membrane Fouling Biofilm in Wastewater Treatment and Reclamation Systems
Tomohiro Inaba, AIST, Japan

P058-E Enhanced Biological Phosphorus Removal in a Lab-scale Reactor Fed with Alternating Glutamate and Acetate, Operated at High Temperature
Stefan Wuertz, Nanyang Technological University, Singapore

P059-E Coconut Husk Biochar Amendment Enhances Nutrient Retention and Slows Down Nitrification in Soil Following Anaerobic Digestate Application
Jidapa Plaimart, Newcastle University, United Kingdom

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↓E: Environmental biotechnology

P060-E Modelling the Formation of Extracellular Polymeric Substances Using an Individual Based Approach
Valentina Gogulancea, Newcastle University, United Kingdom

P061-E Mercaptobenzothiazole Degrading Activity and Community Structure of a Bacterial Consortium Enriched from Rubber Wastewater Sludge
Saowaluk Krainara, Chulalongkorn University, Thailand

P062-E Inhibition of Nitrite Oxidation in Bioreactors via Sustained Organic Loading Perturbation, Exposing Variable Resistance and Resilience of Nitrification and Nitrifiers
Ezequiel Santillan, SCELSE | Nanyang Technological University, Singapore

P063-E Impact of Short-term Temperature Stress on Tropical EBPR Process and Its Microbial Community
Adeline Seak May Chua, University of Malaya, Malaysia

P064-E Quantification of Comammox *Nitrospira* in a Low-DO-Oxic-Anoxic Reactor Treating Tropical Wastewater
Seow Wah How, University of Malaya, Malaysia

P065-E New Foam-formers Discovered in Danish Mesophilic Anaerobic Digesters
Chenjing Jiang, Aalborg University, Denmark

P066-E Niche differentiation in denitrifying poly-phosphate accumulating organisms impact process stability under tropical conditions
Samarpita Roy, National University of Singapore, Singapore

P067-E Morphology and Characteristics of Oil-degrading Microbes Isolated from Cold Rolling Oily Wastewater in CSC
Hui-Ping Chuang, National Cheng Kung University, Chinese Taipei

P068-E Wastewater Treatment by Sulfate Reduction, Denitrification Anammox and Partial Nitrification (SRDAPN) Process
Yuka Kosugi, Kanazawa University, Japan

P069-E "Candidatus Accumulibacter phosphatis" Produces Different Sialic Acids in the Extracellular Polymeric Substances
Sergio Tomas Martinez Delft University of Technology, The Netherlands

P070-E Roles of Cationic Polymers in Simultaneous Microbial Adaptation and Granulation under Specific Substrate
Nasrul Hudayah, King Mongkut's University of Technology Thonburi, Thailand

P071-E Sediment Microbial Fuel Cells Suppressed Phosphorus Release from Eutrophic Lake Bottom
Yasuyuki Takemura, National Institute for Environmental Studies, Japan

P072-E Kinetic Parameters of *Pseudonocardia dioxanivorans* in the Presence of Heavy Metals
Yoshishige Kawabe, AIST, Japan

P073-E Valorisation of Nitrogen Deficient Wastewater Treatment Systems Using Sludge Enriched with Nitrogen Fixing Bacteria
Maria Carolina Ospina, Newcastle University, United Kingdom

P074-E The Extracellular Polymeric Substances of Aerobic Granular Sludge Contain Hyaluronic Acid and Sulfated Glycosaminoglycan-like Polymers
Yuemei Lin, Delft University of Technology, The Netherlands

P075-E How Hot Is Too Hot? Reviewing the Treatment Performance of Refinery WWTP Biological Treatment Systems Operating at High Temperatures
Mark Knight, SUEZ Water Technologies & Solutions, Canada

P076-E Revealing of Carbon-Dependent Phenotypes in Functionally Relevant Populations in Full-Scale Enhanced Biological Phosphorus Removal Systems with Single-Cell Raman Spectroscopy
Dongqi Wang, Xi'an University of Technology, China

P077-E Enrichment of 1,4-Dioxane-degrading Bacteria in Activated Sludge Using Tetrahydrofuran
Daisuke Inoue, Osaka University, Japan

P078-E Promotion of Nitrogen Fixing Activity of Anaerobic Consortium Using Humin
Takanori Awata, National Institute for Land and Infrastructure Management, Japan

P079-E Targeted Microbes Involved in a Polit-Scale Low-Energy Ammonium Removal System Established at WWTP
Hui-Ping Chuang, National Cheng Kung University, Chinese Taipei

P080-E High-sensitivity Stable Isotope Probing of Elusive Microbes that Actively Dissimilate but Marginally Assimilate Substrate-^{13}C in Natural Environments
Tomo Aoyagi, AIST/EMRI, Japan

P081-E Comparison in Release Suppression Performance of Microbial Fuel Cells on Difference of Nutrients
Keiichi KUBOTA, Gunma University, Japan

P082-E Modelling Reductive Dechlorination of Chlorinated Ethenes under Ferrous Iron and Methanogen Existed Conditions
Miho Yoshikawa, Geological Survey of Japan, Japan

P083-E Microbial Communities of Enriched Volatile Fatty Acid Degrading cultures for Methane Production Enhancement
Benjaphon Suraraksa, BIOTEC, Thailand

P084-E Potential of Fixed-Film Technologies, BioCord™ and Moving Bed Bioreactors, for Treatment of High Strength Ammonia Wastewater
Hussain Aqeel, Queen's University, Canada

P085-E Effective Removal of Nitrogen and Organic Matters at High Carbon-Nitrogen Ratios Using a Combining Reactor of Anammox and Fenton-like Reaction
Luong Van DUC, Kumamoto University, Japan

P086-E Treatment of synthetic distillery wastewater using acidophilic microalgae strains
Mana Noguchi, Ibaraki University, Japan

P087-E Swine wastewater treatment technology for simultaneous removal of nitrate and organics using bioelectrochemical systems (BES)
Anna Prokhorova, OIST, Japan

P088-E Municipal Wastewater Treatment Using Mesh Rotating Biological Reactor
Ryota Takagi, Nagaoka University of Technology, Japan

P089-E Efficiency of Xylanase from *Aspergillus flavus* KKU-CLD-2-2 for Application in Paper Pulp Bleaching
Wasan Seemakram, Khon Kaen University, Thailand

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↓E: Environmental biotechnology

P090-E A Novel Strain, L3W of *Aurantiochytrium* sp. Applicable for Cultivation Using Food Processing Wastewater
Nurlaili Humaidah, Hiroshima University, Japan

P091-E Effects of Hurricane Harvey on Microbial Water Quality in a Texas River
Vikram Kapoor, University of Texas at San Antonio, United States

P092-E A Study on Optimization of Water Requirements for Grass Lawns of BITS-PILANI Using the Penman Equation for Recycled Water from Sewage Treatment Plant
Imran Meghani, Birla Institute of Technology & Science, India

P093-E Metabolic pathways facilitating syntrophic aromatic compound degradation by the versatile genus *Pelotomaculum*
Ling LENG, AIST, Japan

P094-E Nitrogen Removal Performance and Microbial Community of ANAMMOX Process at Decreasing Temperatures
Sike Wang, Tsinghua University, China

P095-E *De novo* Sampling Depth Planning of Single-cell Raman Spectroscopy Datasets via Kernel Divergence
Ameet Pinto, Northeastern University, United States

P096-E Towards a catalogue of draft genomes from member species of tropical climate activated sludge microbial communities
Mindia Haryono, SCELSE/National University of Singapore, Singapore

P097-E Discovery of a novel subsurface syntrophic niche: methoxylated aromatic compound degradation
Sachiko Sakamoto, Tsukuba University, Japan

P098-E Effect of Sodium Chloride on Microbial Activities Associated with Anaerobic Digestion of Fermented Food Processing Wastewater
Varunee Kongduan, PDTI/KMUTT, Thailand

P099-E Some Plant Growth Promoting Properties of Endophytic Fungi Isolated from Jerusalem Artichoke and Medicinal Plants
Thanapat Suebrasri, Khon Kaen University, Thailand

N: New microbial processes for Environmental Engineering

P100-N Combined Heterotrophic and Autotrophic Denitrification for Nitrogen Removing from Organic-limited Water
Wei Xing, Beijing Jiaotong University, China

P101-N Valeric and Caproic Acid Production from Food Waste: Balancing Lactic Acid Production and Chain Elongation
Vicky De Groof, University of Bath, United Kingdom

P102-N Identifying Anaerobic Amino Acids Degraders in Anaerobic Digestion Processes
Ran Mei, University of Illinois at Urbana-Champaign, United States

P103-N Enrichment and Applications of Nitrite|nitrate-dependent Anaerobic Methane Oxidation (n-DAMO) Microorganisms for Biological Nitrogen Removal
Jianhua Guo, The University of Queensland, Australia

P104-N Comparative Metagenomic Analysis Against Acetate-treating Microbial Fuel Cells Representing Different Performances.
Hiroyuki Ayano, Kurita Water Industries Ltd., Japan

P105-N Investigation of Sulfur Transformation-centric EBPR Process for Treatment of High-temperature Saline Wastewater
Di Wu, HKUST, China

P106-N A Newly Established Combination Process of Partial Hydrogenotrophic Denitrification (PHD) and Anammox for Nitrogen Removal
Kenta Shinoda, University of Yamanashi, Japan

P107-N Identification of enzymes involved in the degradation of 17β estradiol by bacteria using a synthetic biology approach
Pollyanna Moreland, Newcastle University, United Kingdom

P108-N Seasonal Variation of ANAMMOX and DAMO Microbes in Sewage Sludge from Wastewater Management Plant
Sai Xu, Nanjing University of Science and Technology, China

P109-N Microbial Metabolomics: from Manure to Bioplastics
Maribel Alfaro, University of Idaho, United States

P110-N Extensive and High Quality Genome Recovery from full-scale WWTPs using Nanopore Sequencing
Caitlin Singleton, Aalborg University, Denmark

P111-N Microcolony Diversity in Activate Sludge: Flow Cytometry and Micro-metagenomics Uncovers Evidence of Clonality, Commensality and Phage Specificity
Ben Allen, Newcastle University, United Kingdom

D: Drinking water microbiology

P112-D Impact of Point-of-Entry Device on Biostability in Indirect Water Supply System
Hsin-hsin Tung, National Taiwan University, Chinese Taipei

P113-D Human or Animal Waste? Determining the Sources of Fecal Pollution in a Karstic Aquifer Using Molecular Tools
Vikram Kapoor, University of Texas at San Antonio, United States

P114-D Endotoxin-producing Capability of Heterotrophic Bacteria in Granular Activated Carbon Filters for Advanced Water Purification Process
Dai Simazaki, National Institute of Public Health, Japan

P115-D Biofilm Ecology within the Premise Plumbing of a Drinking Water Distribution System
Kuan-Tzu C Huang, Advanced Water Management Centre, The University of Queensland, Australia

P116-D From Small to Large Microorganisms—Practical Implications of Microbial Dynamics in Drinking Water Distribution Systems
Emmanuelle Prest, PWNT, The Netherlands

P117-D Influence of Hydraulics on the Microbial Community in Drinking Water and Biofilm
Kimberly Learbuch, KWR Watercycle Research Institute, The Netherlands

P118-D The Impact of UV Irradiation on the Bacterial Community in Drinking Water at Full Scale
Kristjan Pullerits, Sweden Water Research Applied Microbiology Lund University, Sweden

P119-D Microbial community structure and abundance of opportunistic pathogens in full-scale biofilters for drinking water production
Lutgarde Raskin, University of Michigan, United States

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↓Drinking water microbiology

P120-D Nitrification promotes the regrowth of organisms in community tap water in chloraminated water supply system
Xiaocao Miao, Shanghai Jiao Tong University, China

P121-D Isolating and Characterizing *Stenotrophomonas maltophilia* from Drinking Water Point-of-Use Filters in an Aged Distribution System
Brittany Hicks, University of Michigan, United States

P122-D Extracellular DNA in Monochloraminated Drinking Water and Its Influence on DNA-based Profiling of Microbial Community
Sakcham Bairoliya, Nanyang Technological University, Singapore

P123-D Genomic and Physiological Characteristics of a Novel Nitrite-oxidizing *Nitrospira* Strain Isolated from a Drinking Water Treatment Plant
Hirotsugu Fujitani, AIST, Japan

P124-D Metaldehyde Removal Through a Deeper Understanding of Biological Mechanisms
Lianna King, Newcastle University, United Kingdom

P125-D Human Fecal Source Identification in an Urban Watershed Using Human Mitochondrial DNA
Vikram Kapoor, University of Texas at San Antonio, United States

P126-D Effects of Coagulation on Biofilm Development on Membrane Surface in Gravity-driven Ultrafiltration Process of Algae-containing Water
Panpan Wang, Harbin institute of technology, China

P127-D Microbial Assessment of Water, Sanitation and Hygiene (WASH) Two Years After Nepal 2015 Earthquake
Sital Uprety, University of Illinois at Urbana Champaign, United States

P128-D Evaluation of Organic Compounds Migrated from Polyethylene and Their Impacts on Microbial Regrowth in Drinking Water
Iftita Rahmatika, The University of Tokyo, Japan

P129-D Biofilm Growth and Diversity Characteristics on the Surface of Three Typical Water Pipelines
Xiaohui Bai, Shanghai Jiao Tong University, China

P130-D TiO_2 Nanopraticles Excitated by Carbon Quantum Dots Derived from Straw Can Effectively Remove Resistance Gene
Bei Yang, Jiangsu Academy of Agricultural Sciences, China

P131-D Now You See It, Now You Don't: the Microbiology of Potable Reuse Advanced Treatment Trains
Scott Miller, University of California, Berkeley, United States

P132-D Effects of Intermittent Water Supply on Bacterial Communities in Drinking Water Distribution Systems
Kara Nelson, University of California, Berkeley, United States

Antibiotic resistant genes

P133-A Developmental Dynamics of Antibiotic Resistome in Aerobic Biofilm Microbiota Treating Wastewater under Stepwise Increasing Tigecycline Concentration
Zhe Tian, Chinese Academy of Sciences, China

P134-A The Occurrence and Fate of Antibiotic Resistance Genes in the Megacity River Network
Yinglong Su, East China Normal University, China

P135-A Transition of Antibiotic Resistome in Wastewater Treatment Process
Sorn Sovannlaksmy, Kanazawa University, Japan

P136-A Antibiotic Resistance Genes in Sewage Sludge: More Effective Reduction Through Anaerobic Digestion with Thermal Hydrolysis Pre-treatment
Chenxiang Sun, Tsinghua University, China

P137-M The Positive Correlation Between *Bradyrhizobium* and Ammonia-oxidizing Archaea (AOA) Leads to Difficult Isolation of AOA from an Urban Polluted River in Shenzhen, China
He Zhongqi, Harbin Institute of Technology (Shenzhen), China

P138-A Impact of Sterilization Procedures on Release of Xenogenic Elements into Urban Waterways
David Calderon Franco, Delft University of Technology, The Netherlands

P139-A Low-energy Wastewater Treatment for Removing Antibiotic Resistant Bacteria
Andrew Zealand, Newcastle University, United Kingdom

P140-A Effect of aeration on antibiotic-resistance gene expression in wastewater treatment processes
Sulfikar, Kanazawa University, Japan

P141-A Response of Resistome in Civil Sludge and Cattle Manure to Mesophilic and Thermophilic Anaerobic Digestion
Min Gou, Sichuan University, China

P142-A The species and abundance of antibiotic resistance genes in cow manure
Shuibin He, Chinese Academy of Sciences/University of Chinese, China

P143-A Identification of Enteric Bacteria Resistant to Antibiotics in Activated Sludge for Municipal and Hospital Wastewater Treatments Using Selective Culture and Next-generation Sequencing Technique
Rio Shibuki, Yamagata University, Japan

P144-A Antibiotic Resistance Genes Detection in Swine Waste Treatment Systems in Thailand
Parinda Thayanukul, Mahidol University, Thailand

P145-A Ciprofloxacin resistance mechanisms in a bacterium isolated from a Danish wastewater treatment plant
Marie Rønne Aggerbeck, Aarhus University, Denmark

P146-A Antibiotic Resistance Gene Concentration Increases in Sewage Conveyance Systems
Ryan Newton, University of Wisconsin-Milwaukee, United States

P147-A Clinical IntI1 Indicates the Abundance and Removal of Antibiotic Resistance Genes in Wastewater Treatment Plant
Xianghua Wen, Tsinghua University, China

P148 New wastage identifying approach based on real-world analysis
Jian Zang, University of Wisconsin-Milwaukee, United States

P149 Pilot-scale Evaluation of MBBR Using Modified Loofah Sponge as Bio- Carriers for Municipal Wastewater Treatment
Pham Thi Thuy, VNU University of Science, Vietnam