



14TH INTERNATIONAL CONGRESS ON EXTREMOPHILES

SEPTEMBER 22/26, 2024 - LOUTRAKI - GREECE

Poster List

- 1 **Aoyagi Tomo**, *Conversion of industrial wastewater nitrogen compounds to ammonium by microaerobic activated sludge system for circular bioeconomy*
- 2 **Aulitto Martina**, *A Novel Endo-1,4- β -Xylanase From Alicyclobacillus Mali Fl18: Biochemical Characterization and its Synergistic Action with β -Xylosidase in Hemicellulose Deconstruction*
- 3 **Berberov Kaloyan**, *Use of different culture dependent strategies for screening of the antibacterial potential of moderately halophilic bacteria isolated from Provadia salt deposit*
- 4 **Blaber Hayley**, *Mutagenesis of a thermophilic hydrolase for increased activity at lower temperatures*
- 5 **Cantera Sara**, *Extremophilic Conversion of Syngas Into Valuable Osmolytes*
- 6 **Choi Yun Ji**, *Low Nitrous Oxide Emission by Comammox Bacterium Nitrospira inopinata under Acidification*
- 7 **Das Bibhuti**, *Exploring Hypersaline Red Brine from a Salt-Pan for Halophiles Producing Polyextremophilic Alginate Lyases with Antibiofilm Activity*
- 8 **Drescher Lynn**, *Differential growth response of hot desert and polar desert hypolithic cyanobacteria to thermal stress*
- 9 **Dumina Maria**, *Taming of L-Asparaginase from Hyperthermophile Thermococcus Sibiricus for Biotechnology Application*
- 10 **Erauso Gaël**, *Metabolic and Genomic Study of a New Hyper-Alkaliphilic Hydrogen-Utilizing Bacteria Isolated from the Prony Hydrothermal Field; Description of Serpentinimonas Pronyense Sp. Nov.*
- 11 **Feng Xu**, *PCR scanning-based genome trimming facilitates construction of Saccharolobus islandicus cells with minimized genomes*
- 12 **Fortuna Klavdija Fortuna**, *Protoplast-Based Transformation and CRISPR/Cas9 Mediated Genome Editing in Aureobasidium pullulans and Hortaea werneckii*
- 13 **Furuyama Masaharu**, *Investigating the Molecular Basis of Caesium resistance in Bacillus sp. ZR-6 Through Mutagenesis and Genome Sequencing*
- 14 **Galyon Alina**, *Evidence in support of a novel nucleotide excision repair pathway in the Euryarchaeota*
- 15 **Ganbat Sondor**, *Bioprospecting of Polyhydroxyalkanoates-producing Bacteria from Marine Environment*
- 16 **Ganbat Sondor**, *A Novel Thermophilic Polyhydroxyalkanoate (PHA) Producing Bacterium, Thermohahella caldifontis gen. nov. sp. nov., Isolated from Hot Spring*
- 17 **Ganbat Sondor**, *Functional Characterization of 4- α -Glucanotransferase and α Amylolytic Enzyme from Hyperthermophilic Fervidobacterium islandicum AW-1*



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- 19 **Hopton Cassie**, *Molecular acclimation of an alkalitolerant and halophilic deep-sea isolate to icy moon-relevant ammonia stress*
- 20 **Hori Tomoyuki**, *Spatiotemporally Stable Microbial Communities Respond to Seasonally Changing Conditions in a Cool-temperate Deciduous Forest Soil*
- 21 **Huang Qihong**, *The canonical single-stranded DNA binding protein SSB is not an essential replication protein but an RNA chaperon in *Saccharolobus islandicus**
- 22 **Inoue Hiromu**, *Analysis of the Hyper-Vesiculating Mechanism of *Shewanella Vesiculosa* HM13 Using a Curvature-Sensing Peptide*
- 23 **Inoue Kousei**, *Elucidation of the Involvement of *Deinococcus radiodurans* DR0042 protein in DNA repair*
- 24 **Izquierdo Katherin**, *Adaptive Response of the Holdase Chaperones of *Acidithiobacillus Ferrooxidans* Atcc 23270 to Different Environmental Stresses and Energy Sources.*
- 25 **Javier López Rubén**, *Adaptive changes in *Fervidobacterium pennivorans* T, a case of in vitro evolution*
- 26 **Jeřábková Martina**, *Metagenomic Analysis of Acid Diatomaceous Soils from the Soos National Nature Reserve, Czechia*
- 27 **Jin Hyeon-Su**, *System-Wide Proteomic Analysis of Membrane-Associated Keratin Degrading Protein Complexes in *Fervidobacterium islandicum* AW-1*
- 28 **Kanai Tamotsu**, *Identification of a transcriptional regulator, *AsnR*, involved in L-Asn metabolism in *Thermococcus kodakarensis**
- 29 **Kang Min-Ju**, *Enhancing Ammonia Oxidation in Copper-Contaminated Soils with Methanotrophs*
- 30 **Kapinusová Gabriela**, *Cultivation and isolation of streamer-generating *Ferrovum* spp. populations from acid mine-waters*
- 31 **Karapetyan Mariam**, *Newly isolated *Bacillus amyloliquefaciens* strains as a producer of bioplastic*
- 32 **Karaseva Alina**, *Little islanders: microbiomes of the Kuril Islands hot springs*
- 33 **Kawamoto Jun**, *Physiological roles of surface polysaccharides in the protein cargo loading and vesiculation of a hyper-vesiculating bacterium*
- 34 **Kawasaki Ikki**, *Characterization of Mutations Induced by DNA Damage in *Rubrobacter radiotolerans**
- 35 **Kebbouche-Gana Salima**, *Isolation and characterization of extremophilic Bacteria, Haloviruses and Protozoa from Algerian Saharan ecosystem*
- 36 **Khan Md Riad Hossain**, *Genetic Engineering and Regulation of the Phosphatidylcholine Biosynthesis in Acetic Acid Bacteria*



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- 39 **Kojima Daiki**, *Stabilization of ribosomes for Cs⁺ resistance in high-concentration Cs⁺ resistant *Escherichia coli* strain ZX-1*
- 40 **Kolomiiets Anastasiia**, *Ecology and diversity of biological soil crust communities at different elevations in Central Svalbard (High Arctic)*
- 41 **Lee Hyun Sook**, *Anaerobiosis of a Hyperthermophilic Archaeon *Thermococcus onnurineus* NA1*
- 42 **Liu Yongqin**, *Genomic Insights into Glacial Microbiomes and Viral on the Tibetan Plateau*
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- 45 **Mateos Guillermo**, *Lactate fermentation and H₂ production in a *Shewanella* strain from the deep subsurface*
- 46 **Michimori Yuta**, *Metabolism linking arginine and proline in the hyperthermophilic archaeon *Thermococcus kodakarensis**
- 47 **Ni Jinfeng**, *Adaptive evolution of *Saccharolobus islandicus* REY15A with cellulose as carbon source*
- 48 **Ota Shunki**, *The utilization of Alkaliphilic bacteria in weight reduction and degradation of Soy sauce moromi lees and Evaluation of their effects*
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- 50 **Paredes Contreras Beatriz Vivian**, *Harnessing Nature's Shield: Carotenoids of the Antarctic *Arthrobacter* Sp. Strain Lapm80 For Uv-B Photoprotection*
- 51 **Pirozzi Esther**, *Methods and perspectives for discovering enzymes from extreme environments*
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- 53 **Preet Gagan**, *A Global Deep-Sea Database and Roadmap To Drug Discovery*
- 54 **Prime Anne-Hélène**, *Hydrogen Production from Industrial Wastes Using New Hyperthermophilic Organisms Isolated from Shallow Hydrothermal Fields of Volcanic Islands of the Aeolian Archipelago, Italy*
- 55 **Sakai Miyabi**, *Unveiling a novel DNA repair mechanism featuring DdrA*
- 56 **Sanchez Andrea Irene**, *Closing the gap between environmental and laboratory pH in *Acididesulfobacillus acetoxydans*, a moderate acidophilic sulfate reducing bacterium*



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- 59 **Shen Yulong**, *PerR functions as a redox-sensing transcription factor regulating metal homeostasis in the thermoacidophilic archaeon Saccharolobus islandicus REY15A*
- 60 **Smrhova Tereza**, *What phylogenetic novelty hides the thermal springs of Carlsbad?*
- 61 **Stathopoulou Panagiota**, *Exploring the Sediment-Associated Microbiome of Etoliko Lagoon*
- 62 **Strejcek Michal**, *Metabolic characterization of novel and uncharacterized prokaryotic lineages in Jáchymov hot springs*
- 63 **Sung Jae-Yoon**, *A Strategic Blueprint for the Domestication of Geobacillus stearothermophilus as a Thermophilic Platform Cell using the DNMB Suite*
- 64 **Tierney Joshua**, *A novel application for extremophilic enzymes*
- 65 **Toyotake Yosuke**, *Role of diverse lipid molecules in the membrane physiology of acetic acid bacteria*
- 66 **Van Dyke Michael**, *Identifying Transcriptional Regulatory Networks in the Extreme Thermophile Thermus thermophilus*
- 67 **Vandijck Marie**, *Unraveling the temperature-responsive physiology of Parageobacillus thermoglucosidasius*
- 68 **Xiang Xiaoyu**, *Stsv Induced Immune Response in Sulfolobus Tengchongensis*
- 69 **Xu Yifei**, *The impact of genomic location on ectopic integration and gene expression of a heterologous gene cassette in Sulfolobus acidocaldarius*
- 70 **Zoidakis Jerome**, *Study of chitin metabolism of the psychrophilic bacterium Moritella marina by proteomic analysis*