

Poster Session (tentative)

- P1 D-Amino acid related electron transfer system in the hyperthermophile *Pyrobaculum islandicum*.
Chihiro Suzuki
Nihon University, Japan
- P2 The purification and characterization of serine racemase from the hyperthermophilic archaeon *Pyrobaculum islandicum*.
Yutaka Ishii
Nihon University, Japan
- P3 The first crystal structure of an archaeal helical repeat protein.
Kauznari Yoneda
University of Tokushima, Japan
- P4 Description of the genome of *Geobacillus thermoleovorans* T80 and comparison with related organisms
Dr. Nigel G. Ternan
University of Ulster, U.K.
- P5 Revisiting the genome sequence of *Aeropyrum pernix* K1
Dr. Takahisa Tajima
National Institute of Technology and Evaluation, Japan
- P6 Discovery of a novel restriction endonuclease from the hyperthermophilic archaeon *Pyrococcus abyssi* by genome comparison and application of a wheat-germ-based cell-free translation assay
Prof. Ichizo Kobayashi
University of Tokyo, Japan
- P7 A new enzyme [EC 2.5.1.65], *o*-phospho-L-serine sulfhydrylase, from a hyperthermophilic archaeon *Aeropyrum pernix*
Dr. Kazuhiko Ishikawa
National Institute of Advanced Industrial Science and Technology, Japan
- P8 Domain Shuffling of β -1, 3-Glucanase and Chitinase from alkaliphilic *Nocardopsis* sp. F96 : Construction and Characterization of Mutants with Additional Carbohydrate-binding Domains
Naoya Koizumi
Tokyo Institute of Technology, Japan
- P9 Excision of dUMP from DNA by the hyperthermophilic archaeon *Archaeoglobus fulgidus*

- Prof. Svein Bjelland
University of Stavanger, Norway
- P10 Improvement and analysis of the hyperthermophilic cellulase from a hyperthermophilic archaeon *Pyrococcus horikoshii*
Dr. Heejin Kang
National Institute of Advanced Industrial Science and Technology (AIST Kansai), Japan
- P11 Biochemical and genetic analyses on enzymes involved in central carbon metabolism in the hyperthermophilic archaeon, *Thermococcus kodakaraensis*
Dr. Haruyuki Atomi
Kyoto University Japan
- P12 Biochemical properties of an archaeal signal peptide peptidase from *Thermococcus kodakaraensis*
Rie Matsumi
Kyoto university, Japan
- P13 Analysis of the maturation process of subtilisin from *Thermococcus kodakaraensis* KOD1 using active-site mutants
Shun-ichi Tanaka
Osaka University, Japan
- P14 An improved and versatile transformation system allowing multiple genetic manipulations of the hyperthermophilic archaeon *Thermococcus kodakaraensis*
Dr. Toshiaki Fukui
Tokyo Institute of Technology, Japan
- P15 Diversity of thermophilic archaea isolated from the hot spring Unzen and Obama in Japan
Naoto Yoshikawa
RIKEN BioResource Center, Japan
- P16 Substrate specificity and transglycosylation catalyzed by a thermostable β -glucosidase from marine hyperthermophile *Thermotoga neapolitana*
Prof. Jaeho Cha
Pusan National University, Korea
- P17 Application of enzymatic transglycosylation via recombinant *Sulfolobus shibatae* β -glycosidase to produce new sucrose derivative
Prof. Cheon-Seok Park
Kyunghee University, Korea

- P18 Modular structure and assembly of archaeal respiratory complex II
Dr. Toshio Iwasaki
Nippon Medical School, Japan
- P19 Characterization of a family B DNA polymerase and sequence analysis of replicative proteins from the hyperthermophilic marine archaeon *Thermococcus* sp. OGL-20P
Damien Marsic
University of Alabama in Huntsville, USA
- P20 Cystathionine γ -synthase from thermoacidophilic archaeon, *Sulfolobus tokodaii* strain 7.
Prof. Kenji Inagaki
Okayama University, Japan
- P21 Discovery and application of the novel genes from the genomic information and the environment
Dr. Yutaka Kawarabayasi
National Institute of Advanced Industrial Science and technology, Japan
- P22 Enzyme-mediated generation of carboxylic acids from nitriles and amides
Sam J. Waddell
University of Exeter, U.K.
- P24 A novel genetic element in thermophilic *Geobacillus kaustophilus* HTA426
Dr. Yoshihiro Takaki
JAMSTEC, Japan
- P25 Novel agarases isolated from deep-sea bacteria
Dr. Yuji Hatada
JAMSTEC, Japan
- P26 Four 2-ketoacid ferredoxin oxidoreductases from *Thermococcus profundus*
Yukiko Ozawa
Rikkyo University, Japan
- P27 Glucosidation modification of alcoholic and phenolic compounds using transglycosylation reaction of a solvent tolerant α -1,4-glucosidase from a strain of deep-sea *Geobacillus*
Dr. Vo S. Hung
JAMSTEC, Japan
- P28 Identification a novel thermophilic bacteria which can produce high-purity isomaltotriose and simplify the approach
Lirong Teng

- Jilin University, P. R. China
- P29 Novel chemoautotrophic endosymbiosis between a member of the epsilonproteobacteria and the hydrothermal-vent gastropod *Alviniconcha* aff. *hessleri* (Gastropoda:Provannidae) from the Indian Ocean
Dr. Yohey Suzuki
JAMSTEC, Japan
- P30 Thermotolerance of *Thermococcus* sp. strain Tc-1-95 and its key mechanism for thermal death
Dr. Shigenobu Mitsuzawa
JAMSTEC, Japan
- P31 Molecular and culture-based analyses of bacteria and archaea from a North Sea oil-reservoir
Prof. Nils-Kaare Birkeland
University of Bergen, Norway
- P32 Metagenomic analysis of uncultivated thermophilic crenarchaeotes from a subsurface gold mine
Dr. Takuro Nunoura
JAMSTEC, Japan
- P33 *In situ* culture of thermophilic/hyperthermophilic anaerobes of hydrothermal vents
Prof. Tomohiko Kuwabara
University of Tsukuba, Japan
- P34 Phylogenetic diversity of archaea from terrestrial hot springs of Greece
Dr. Konstantinos A. Kormas
University of Thessaly, Greece
- P35 Characterization of methanotrophs isolated from shallow- and deep-sea hydrothermal areas.
Dr. Hisako Hirayama
JAMSTEC, Japan
- P36 Unique thermophiles supported by the ocean crustal fluids exiting from a borehole in the eastern flank of Juan de Fuca Ridge
Dr. Satoshi Nakagawa
JAMSTEC, Japan
- P37 Sequencing, cloning and expression of α -amylase from *Haloferax mediterranei*
Prof. Maria José Bonete
University of Alicante, Spain

- P38 Characterization of the narJ gene from *Haloferax mediterranei*
Dr. Rosa Maria Martínez-Espinosa
University of Alicante, Spain
- P39 Characterization of two isocitrate dehydrogenases from a new halophilic microorganism: *Salinibacter rubber*.
Prof. Maria José Bonete
University of Alicante, Spain
- P40 Alto Vinalopó hypersaline lakes: Microbial biodiversity and environmental characterisation.
Dr. Rosa Maria Martínez -Espinosa
University of Alicante, Spain
- P41 Electrostatic and hydrophobic interactions play a major role in the stability and refolding of halophilic proteins
Prof. Masao Tokunaga
Kagoshima University, Japan
- P42 Compatible solutes in halophilic *Hortaea werneckii*
Prof. Nina Gunde-Cimerman
University of Ljubljana, Slovenia
- P43 *rpoB*-based systematic phylogeny analysis of haloalkaliphilic archaea
Dr. Madalin I. Enache
RIKEN, Bio Resource Center, Japan
- P44 Phylogenetic study of archaeal and bacterial diversity of a Chinese hypersaline ecosystem.
Dr. Samson Muyanga
University of the Western Cape, South Africa
- P45 Identification and characterization of halotolerant strain isolated from salt lake mud in China
Chenxiang Wang
Kobe University, Japan
- P46 Investigation of microbial community and isolation of novel halophilic species from Szutsao salt field, southern Taiwan
Chung-Yi Wang
National Taiwan University, Taiwan ROC
- P47 Halophilic bacteria belonging to genera of the family Bacillaceae able to grow in the presence of 20% (3.4 M) NaCl are isolated from non-saline soil samples in an area surrounding

- Akinobu Echigo
Toyo University, Japan
- P48 Purification and characterization of an extracellular serine metalloprotease from the moderately halophilic bacterium *Salinivibrio* sp. strain AF-2004
Hamid Reza Karbalaei-Heidari
Institute of Biochemistry and Biophysics, Iran
- P49 Polyisoprenoid synthesis using hyperthermophilic enzymes in organic-aqueous two-liquid phase system
Dr. Shinsuke Fujiwara
Kwansei Gakuin University, Japan
- P50 Diversity, Molecular phylogeny and secretion of extracellular enzymes among the haloalkaliphilic bacteria isolated from the saline habitats of Gujarat in Western India
Prof. Satya P. Singh
Saurashtra University, India
- P51 Characterization of *GUP1* gene encoding for glycerol transport in the halophile yeast *Debaryomyces hansenii*
Dr. Juan Carlos G. Hernandez
Instituto Superior de Agronomia, Portugal
- P52 Effect of salt concentration on bioluminescence of *Vibrio fischeri*: applications on screening for quorum sensing inhibitors
Xiaojian Zhou
Kobe University, Japan
- P53 Isolation and characterization of novel halophilic bacteria possessing the ability of ectoine synthesis
Daochen Zhu
Kobe University, Japan
- P54 Survival and growth of *Escherichia coli* K-12 under extremely hypersaline environments
Ayako Murata
Kumamoto University, Japan
- P55 The Voltage-Gated Na⁺ Channel NaVBP co-localizes with methyl-accepting chemotaxis proteins of alkaliphilic *Bacillus pseudofirmus* OF4 at a cell pole
Shun Fujinami
Toyo University, Japan
- P56 The Na⁺-dependent MotPS of *Bacillus subtilis* that is a homologue of the

- stator-force generator for alkaliphile motility plays a physiological role in its neutralophile setting
Naoya Terahara
Toyo University, Japan
- P57 Isolation and characterization of denitrifying alkalithermophiles AT-1 and AT-2
Mami Yamamoto
Toyo University, Japan
- P59 Comparative analysis of mobile elements in the genomes of extremophilic *Bacillus*-related species
Dr. Gab-Joo Chee
JAMSTEC, Japan
- P60 Analysis of detergent-insoluble membrane microdomains of *Bacillus halodurans* C-125
Dr. Zhijun Li
JAMSTEC, Japan
- P61 The inhibitory effect of methyl β -cyclodextrin on growth of *Bacillus halodurans*
Dr. Hui-Min Zhang
JAMSTEC, Japan
- P62 Identification and some properties of a novel carbohydrate-binding module of an alkaline mannanase from *Bacillus* sp. strain JAMB-602
Nobuhiro Takeda
JAMSTEC, Japan
- P63 Isolation and characterization of a feather-degrading enzyme from alkalophilic *Bacillus* sp. FA30-01
Mio Kojima
Toyo University, Japan
- P64 Purification and properties of sulfide:quinone oxidoreductase from an acidophilic, iron-oxidizing bacterium, *Acidithiobacillus ferrooxidans* NASF-1, grown on sulfur medium
Prof. Kazuo Kamimura
Okayama University, Japan
- P65 Cloning and characterization of an alkaliphilic L-arabinose isomerase (araA) from an acidophile, *Alicyclobacillus* sp. TP7
Sang-Jae Lee
Yonsei University, Korea

- P66 Screening and characterization of a novel lipolytic enzyme in metagenomic library from a tidal flat sediment
Dr. Mi-Hwa Lee
Korea Research Institute of Bioscience and Biotechnology, Korea
- P67 Novel alkalitolerant *Nocardioides* species isolated from an alkaline soil in Korea
Dr. Seo-Youn Jung
Korea Research Institute of Bioscience and Biotechnology, Korea
- P68 Localization of the chemoreceptor-modifying enzyme is regulated by its phosphorylation and receptor methylation in *Escherichia coli*.
Satomi Banno
Nagoya University, Japan
- P69 Noise in gene expression at the extreme environments
Dr. Hideki Kobayashi
JAMSTEC, Japan
- P71 Glucose degradation pathways in *Deinococcus* spp. and characterization for glucose 6-phosphate dehydrogenase of *D. radiophilus*
Dr. Young Nam Lee
Chungbuk National University, Korea
- P72 Identification of borotolerant bacteria isolated from soil; a new frontier of extremophiles
Iftikhar Ahmed
The University of Tokyo, Japan
- P73 Isolation and characterization of selenate-reducing bacteria from marine sediments
Dr. Masami Kashiwa
JAMSTEC, Japan
- P74 Use of the Antarctic *Pseudoalteromonas haloplanktis* TAC125 as efficient host for recombinant protein production at low temperatures
Dr. Maria Luisa Tutino
University of Naples "Federico II", Italy
- P75 Analysis of amino acid residues involved in thermostability of cold-adapted isocitrate dehydrogenase from a psychrophilic bacterium, *Colwellia maris*
Takayuki Kurihara
Hokkaido University, Japan
- P76 Proteome analysis of a psychrotrophic bacterium, *Shewanella* sp. Ac10, to

- elucidate its cold-adaptation mechanism and functional analysis of a cold-inducible putative porin by gene disruption
Jun Kawamoto
Kyoto University, Japan
- P77 Construction of a protein expression system by using a psychrotroph *Shewanella* sp. Ac10 as the host and expression of a heterologous protein from a psychrophile
Ryoma Miyake
Kyoto University, Japan
- P78 Cold Acclimation Proteins produced by an Antarctic psychrophilic bacterium *Pseudoalteromonas haloplanktis* during growth at low temperatures
Dr. Salvino D'Amico
University of Liege, Belgium
- P79 Analysis of Ser-His-Glu triad in alpha-amylases
Jean-Claude Marx
University of Liège, Belgium
- P80 Analysis of microorganisms trapped in permafrost ice wedge by cultivation-based and molecular techniques: diversity and sensitivity to subzero temperature
Taiki Katayama
Hokkaido University, Japan
- P81 Microbial community in the seafloor around the hydrothermal system at Southern Mariana Trough.
Shingo Kato
Tokyo University of Pharmacy and Life Science, Japan
- P82 Taxonomic study of agar-degrading bacteria from deep-sea
Masayuki Miyazaki
JAMSTEC, Japan
- P83 Are deep-sea floors new resource suppliers for exploring undiscovered species of yeasts or a terminus of terrestrial contaminants?
Dr. Takahiko Nagahama
JAMSTEC, Japan
- P84 Evaluation of antimicrobial polymer gel for obtaining the subsurface core sample without microbial contamination
Noriaki Masui
JAMSTEC, Japan

- P85 Malate dehydrogenases from the obligately piezophilic deep-sea bacterium *Moritella* sp. strain 2D2 and the psychrophilic bacterium *Moritella* sp. strain 5710
Dr. Rie Saito
Protein Wave Co., Japan
- P86 High pressure activated glow cells – development of environmental pressure-sensing bacteria using the piezophiles, *Shewanella violacea* DSS12, *Moritella japonica* DSK-1 and green fluorescent protein.
Dr. Takako Sato
JAMSTEC, Japan
- P87 The role of deubiquitination in pressure-induced degradation of tryptophan permease Tat2 in *Saccharomyces cerevisiae*
Dr. Takeshi Miura
JAMSTEC, Japan
- P88 Genome wide screening of *Saccharomyces cerevisiae* genes responsible for growth under high hydrostatic pressure condition
Hiroaki Minegishi
Toyo University, Japan
- P89 The difference on respiratory activity in the cells of *Shewanella violacea* DSS12 grown under various hydrostatic pressure
Sayaka Chikuma
College of Humanities and Sciences, Nihon University, Japan
- P90 Effects of the piezotolerance of cultured deep-sea eel cells on survival rates, cell proliferation, and cytoskeletal structures
Dr. Sumihiro Koyama
JAMSTEC, Japan
- P91 Characterization of fibroblasts adhering to convexities
Dr. Satoshi Konishi
JAMSTEC, Japan
- P92 Removal and recovery of actinides using microbes isolated from Canadian and American uranium deposits
Takehiko Tsuruta
Tohwa University, Japan
- P93 Removal and recovery of uranium using microorganisms isolated from Japanese uranium deposits
Kimihiro Kikuchi

- Tohwa University, Japan
- P94 Bacterial community resident on the gut wall of the termites *Reticulitermes speratus*, *Hodotermopsis sjoestedti* and *Neotermes koshunensis*
Hideaki Nakajima
Toyo University, Japan
- P95 Organic solvent-stability of mutated enzymes
Prof. Hiroyasu Ogino
Osaka Prefecture University, Japan
- P96 Degradation characteristic of bisphenol A by *Pseudomonas* sp.
Midori Masuda
Toyo University, Japan
- P98 New solid media for extremophiles using cellulose gel
Mikiko Tsudome
JAMSTEC, Japan
- P99 Direct observation of colloids under extreme conditions
Dr. Sada-atsu Mukai
JAMSTEC, Japan
- P100 Coagulations of colloids in sub- and supercritical water: an attempt to understand the mechanism by DLVO forces
Dr. Swapan K. Ghosh
JAMSTEC, Japan
- P101 The alkaliphile Mrp Na⁺/H⁺ antiporter vs. Mrp systems from neutralophiles
Talia H. Swartz
Mount Sinai School of Medicine, USA
- P102 Characterization of a maltooligosaccharides-forming amylase from *Brachybacterium* sp. strain LB25 which improves product selectivity in the presence of organic solvents
Wataru Yamagish
Toyo University, Japan
- P103 Sulfate-reducing and sulfur-oxidizing microorganisms isolated from rock samples collected in Suiyo Seamount
Dr. Koji Mori
National Institute of Technology and Evaluation (NITE), Japan
- P104 High diversity of novel chitinase genes by directed *in situ* enrichments of extremophiles from coastal hot springs in Iceland
Dr. Cédric F.V. Hobel

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P105 Depyritisation of coal using indigenous pure and mixed cultures of acidophilic bacteria

Dr. Muhammad A. Ghauri

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