Poster Presentations

Room III

P-01	Molecular characterization of novel salt- and xylose-tolerant GH43 bifunctional β -xylosidase/ α -arabinosidase from the gut bacterial genome
	Bo Xu, Liming Dai, Nanyu Han, Yunjuan Yang, Qian Wu, Junjun Li, Xianghua Tang and Zunxi Huang
P-02	Identification, recombinant expression and efficient purification of tag-free thermo-stable uricase from Kluyveromyces marxianus
	Bangchun Wang, Dongmei Wang, Rui Ding and Jiong Hong
P-03	Molecular and biochemical characterization of a novel isoprene synthase from Metrosideros polymorpha
F-03	Seung-Gyun Woo, Eugene Rha, Soo-Jin Yeom, Seong Keun Kim, Dae-Hee Lee and Seung-Goo Lee
P-04	Gene identification and characterization of fucoidan deacetylase and fucoidanase for potential application to fucoidan degradation and diversification Tatsuhiko Nagao, Yoshihito Arai, Fumika Komatsu, Ayako Kumabe, Mika Yamaoka, Hisashi Yagi, Hirokazu Suzuki and Takashi Ohshiro
	Characterization of novel P450 peroxygenases for oxidative decarboxylation of free fatty acids to terminal alkenes
P-05	Huifang Xu, Yuanyuan Jiang, Linlin Ning, Bo Fang, Laurent Fourage and Shengying Li
	High-level Expression of β-N-Acetylglucosaminidase NagZ in <i>Pichia pastoris</i>
P-06	Jiang Shun, Jiang Hongying, Zhou yuling, Jiang Sijing and Zhang Guimin
P-07	Identification of metabolic pathways salvaging thermal degradation products from NAD ⁺ in the hyperthermophilic archaeon <i>Thermococcus kodakarensis</i>
	Takaaki Sato, Shin-ichi Hachisuka and Haruyuki Atomi
D 00	Purification-Free, Target-Selective Immobilization of a Protein from Cell Lysates
P-08	Jaehyun Cha and Inchan Kwon
P-09	Improving recombinant alkaline amylase production in <i>Bacillus subtilis</i> 168 by integration of a novel ARTP mutagenesis-screening strategy with systems-level fermentation optimization
	Yingfang Ma, Haiquan Yang and Fei Xu
P-10	Engineering of cyclodextrin glycosyltransferase to enhance product specificity for long-chain glycosylated genistein
1 -10	Ruizhi Han, Binbin Ge, Guochao Xu, Jinjun Dong and Ye Ni
P-11	Use of tandem cell-free protein synthesis reactions for rapid screening of effective molecular chaperones
1 -11	Hye Jin Lim, Kyung-Ho Lee, Hyeon Jeong Yang and Dong-Myung Kim
P-12	Synthesis of unnatural nucleosides containing fluorescent group by using nucleic acid metabolic enzyme
1 -12	Hiroyuki Wakana, Nanae Terado and Akihiko Hatano
P-13	Engineering of TEV-L2F protease by a high-throughput screening method based on yeast ER sequestration screening (YESS)
F-13	Ting Wang, Hui Zheng, Meng Mei, Guimin Zhang and Li Yi
P-14	Characterization of protein retention in the yeast ER for strengthening the application of YESS in protein engineering
F-14	Meng Mei, Xinzhi Li, George Georgiou, Brent L. Iverson, Guimin Zhang and Li Yi
P-15	Crystal screening of aldoxime dehydratase from Bacillus sp. OxdB-1 for structural analysis
F-13	Ke Chen, Tomoya Mori, Daisuke Matsui and Yasuhisa Asano
P-16	Facile and reliable preparation of linear DNA templates for cell-free protein synthesis using a digestion-ligation method
	Hyeon Jeong Yang, Kyung-Ho Lee and Dong-Myung Kim
P-17	Engineering of 7β-Hydroxysteroid Dehydrogenase for Continuous Bioproduction of Ursodeoxycholic Acid in Cascade Bioreactors
	Ming-Min Zheng, Zhi-Neng You, Chun-Xiu Li and Jian-He Xu
P-18	Improving the thermostability of a fungal GH11 xylanase via site-directed mutagenesis guided by sequence and structural analysis
	Nanyu Han, Huabiao Miao, Junmei Ding, Junjun Li, Yuelin Mu, Junpei Zhou and Zunxi Huang
P-19	Modeling-based engineering of CALB to produce monoacyl glycerols
	Young-Seo Kang, Seong-Soon Park, Young-Joo Yeon and Jin-Byung Park
P-20	Discovery and Directed Evolution of Nitrilase
	Hualei Wang, Huihui Sun and Dongzhi Wei

Room IV

P-26 Production Françuix Rou, Jing Zhao, Jiao Liu, Cumini Sun, Yanmel Guo, Zijian Tan, Feng Cheng, Zhimin Li, Ping Zheng and Jibin Sun Françuix Rou, Jing Zhao, Jiao Liu, Cumini Sun, Yanmel Guo, Zijian Tan, Feng Cheng, Zhimin Li, Ping Zheng and Jibin Sun Françuix Rou, Jing Zhao, Jiao Liu, Cumini Sun, Yanmel Guo, Zijian Tan, Feng Cheng, Zhimin Li, Ping Zheng and Jibin Sun Françuix Rough Jiang Sun Yin, Lujia Zhang and Dongshi Wei Production of shikmic acid from cellobiose using Corynebacterium glutamicum Nacki Sato, Tsutomu Tanaka and Akhiko Kondo Françuiz ng Visine cycloteaminase conformational dynamics for relieving substrate and product inhibitions via rational design flamation Ying, Jing Weng, Xin Wang, Hak-Sung Kim and Keguan Chen Production and engineering of cellulases in Escherichia coli Min Liu and Hengwei Yu Velutionary coupting saturation mutagenesis: coevolution-inspired protein engineering Velutionary co		
P-22 Halogen Bond in Substrate Selectivity of Enzymatic Catalysis: A Case Study in Nitrilaae Shadin Jiang, Bo Yin, Lujia Zhang and Dongzhi Wei Production of shikimic acid from celobioses using Corymebacterium glutamicum Nooki Sato, Tsutomu Tanaka and Akhihko Kondo Engineering of lysine cyclodeaminase conformational dynamics for relieving substrate and product inhibitions via rational design of ligands delivery processes Hanxiao Ying, Jing Wang, Xin Wang, Hak-Sung Kim and Kequan Chen Construction and engineering of cellulases in Escherichia coli Min Liu and Hongwei Yu Wing, Yao Nie, Fel Xu and Yan Xu Structure of Ralstonia europha polyhydroxyalkanoate synthase and reaction mechanism of the whole enzyme Jiyeon Hong, Seuthoc Lee and Kyung-Jin Kim Structure of Ralstonia europha polyhydroxyalkanoate synthase and reaction mechanism of the whole enzyme Jiyeon Hong, Seuthoc Lee and Kyung-Jin Kim Rena Matsuura, Tsutomu Tanaka and Akhiko Kondo High-throughput screening method for directed evolution of aldol reaction activity of D-threonine aldolase Lei Gong, Guochao Xu, Xudong Cao and Ye Ni Molecular Basis for the High Activity and Enanticiselectivity of the Carbonyl Reductase from Sporobolomyces salmonicolor toward α-Halosactophenones Xi Chen, Hongliu Zhang, Jinniu Feng, Qiaqing Wu and Dunming Zhu Archeal metabolism and its application Haruyuki Atomi, Takaaki Sato and Tamotsu Kanai Gyrstal structure of type IF CRISPR RNA—guided surveillance complex component Cey3 from Zymomonas mobilis ZM4 Do-Heon Gu, Jiali Sun, Sung-Chul Ha and Jeeng-Sun Kim Improving the thermal stability and catalytic activity of mesophilic β-glucosidase Cel1b by bibinformatics Kangle Niu, Zhenzhen Wang and Xu Fang P-36 Refaced metabolism and its application of Scherichia coli for production of shikimate pathway derivatives Ryosuke Fujiwara, Spiris a sphosphoethanolamine transferase required for transportation of the GPI anchored proteins Hamisoo Guyang, Ting Du, Hui Zhou, Isin B. H. Wilson and Cheng Jin Fil-Non Seo and Jeong-Sun Kim Hamison of Esch	P-21	
P-22 Shulqin Jiang, Bo Yin, Lujia Zhang and Dongzhi Wei		Fengyu Kou, Jing Zhao, Jiao Liu, Cunmin Sun, Yanmei Guo, Zijian Tan, Feng Cheng, Zhimin Li, Ping Zheng and Jibin Sun
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	P-56	Structural analysis of thiolase from Clostridium acetobutylicum
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Room V

P-57	Metabolic engineering of Escherichia coli for the production of N-acetylglutamate
1 -31	Baixue Lin, Shasha zhang, Wei Yang and Yong Tao
P-58	Gluconic acid production from potato waste
	Yi Jiang, Ning Su, Hongsen Zhang, Jie Bao and Xu Fang
P-59	Improving fatty acid biotransformation rates of Escherichia coli-based biocatalysts by increasing expression level of FadL
. 00	Hye-Jin Jo, Ji-Won Song, Eun-Yeong Jeon and Jin-Byung Park
P-60	Efficient production of L-carnitine using dual nitrile-related enzymes
. 00	Takanori Akiyama, Fumiaki Watanabe and Wataru Mizunashi
P-61	Development of Bacillus amyloliquefaciens as an alternative cell factory for the high-level secretion of recombinant proteins
. 0.	Hui Wang, Huoqing Huang, Huiying Luo and Bin Yao
P-62	The Response Characteristics of Pyranose Oxidase Electrode to Glucose and Xylose
1 -02	Zhang Jinling, Du Yi, Gao Guangheng, Zhu Sirong and Bi Chunyuan
P-63	Dietary fatty acid metabolism in lactic acid bacteria
1 -03	Shigenobu Kishino, Akiko Hirata, Michiki Takeuchi and Jun Ogawa
P-64	Identification and Characterization of Vibrio vulnificus plpA Encoding a Phospholipase A ₂ Essential for Pathogenesis
F-04	Kyung Ku Jang, Zee-Won Lee and Sang Ho Choi
P-65	Research on uric acid biosensor based on graphene oxide-prussian blue nanocompositrs Zheng Lan, Ma Yaohong, Yang Junhui, Meng Qingjun, Gong Weili, Yang Yan, Liu Qingai, Cai Lei, Bi Chunyuan and Shi
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P-66	Ginsenoside Rg5 induces apoptosis by activating two apoptotic pathways in human esophageal cancer cells
. 00	Yang Li and Ying-Hua Jin
P-67	Stereoselective synthesis of chiral secondary amines from renewable fatty acids by multi-step biotransformations
. 0,	Da-Som Lee, Jung-Hoo Lee, Uwe Bornscheueur and Jin-Byung Park
P-68	Microbial Fe(II)/α-Ketoglutarate-Dependent Enzyme-catalyzed Oxygenation to Produce Industrially Useful Amino Acids
	Makoto Hibi, Ryotaro Hara, Takayuki lihoshi, Shoko Kozono, Satomi Takahashi and Jun Ogawa
P-69	Characterization of a single-chain catalytic antibody promoting the degradation of oligomeric amyloid beta-protein
. 00	Yunlong Zhang, Xiaoning Zhang, Chuli Song and Yingjiu Zhang
P-70	Characterization of the Single-Chain Antibody Inhibiting PHD2 Activity
	Liangzhong Zhao, Ruijuan Gao, Jialiang Zhao, Ziyu Liu, Fang Yang and Guiying Li
P-71	Isolation of diverse styrene monooxygenase genes from soil metagenomes by S-GAM (Screening of Gene-Specific Amplicons from Metagenomes) method
	Hiroshi Toda and Nobuya Itoh
P-72	Generation of therapeutic enzyme variants with the human serum albumin binding capacity via site-specific fatty acid conjugation
	Jinhwan Cho and Inchan Kwon
P-73	The development of deer blood serum enzymatic products and research on its antioxidant effects
	Lu Hou and Wei Shi
P-74	Ginsenosides with a specific structure regulate NF-kB pathway by targeting Annexin A2
	Ying-Hua Jin, Yushi Wang, Yingjia Lin, Yang Li and He Li
P-75	Production of o-hydroxylated monophenolic glycosides using Burkholderia thailandensis tyrosinase at acidic condition
	Hyun Kim, Ukjae Lee, Pyung-Gang Lee and Byung-Gee Kim
P-76	Production of n-butylamine in Escherichia coli by transaminase
	Yuki Mori, Takuya Matsumoto, Tsutomu Tanaka and Akihiko Kondo

Room V

P-77	Effects of Hereditary Moderate High-fat Diet in C57BL/6 Offspring on Atrogin-1/MuRF-1 in E3 Ubiquitin Ligase
	Xueyan Zhang, Bingjie Zhang, Fang Liu and Guirong Zhang
P-78	The anti-aging effect of nanozyme in C. elegans
F-76	Li Xu, Junrong Zhang, Zhixian Zhang, Qi Yan, Yafan Li and Yi Guo
P-79	A hemolysin-like protein responsible for S-layer formation in a sulfur-oxidizing bacterium, Thiothrix nivea
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P-80	Characterization of a D-threonine aldolase for D-threonine production
F-00	Sung-Hyun Park, Kil Koang Kwon and Soo-jin Yeom
	A deuterohemin peptide protects a transgenic <i>Caenorhabditis elegans</i> model of Alzheimer's disease by inhibiting Aβ ₁₋₄₂
P-81	aggregation Jia Xu, Chonghan Wang, Yujia Chen and Liping Wang
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1 -02	Yi Guo, Na Shen, Qi Yan, Siqi Wang, Yafan Li and Li Xu
P-83	Thermostabilization of mutant beta-glucuronidase resulted in increased stability and lower background signal of homogeneous immunoassay
	Jiulong Su, Yuki Ohmuro-Matsuyama and Hiroshi Ueda
P-84	Caveolin-1 regulates core-fucosylation and α 1,6-fucosyltransferase (Fut8) expression level in murine hepatocarcinoma via wnt/ β -catenin signaling
	Xixi Chen, Cheng Zhang, Yubo Liu, Zhengyao Zhang, Shujing Wang and Jianing Zhang
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1 -03	Donghua Xue, Li Wang, Kun Zhang and Xiaoxiao Chen
P-86	A novel cycling method by a purine nucleoside phosphorylase for assaying inorganic phosphate
1 -00	Shigeru Ueda and Shin-ichi Sakasegawa
P-87	Design of a PolyTag that affords polymerization of functional proteins
. 0,	Ryo Sato, Kosuke Minamihata, Masahiro Goto and Noriho Kamiya
P-88	Engineering of fungal-derived FAD-GDH by circular permutation
	Satoru Ishihara, Kyoichi Nishio, Satoshi Koikeda and Stefan Lutz
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	Tamotsu Kanai, Ayumi Horiuchi, Mehwish Aslam and Haruyuki Atomi