

2011년도 한국미생물학회 국제학술대회

**2011 International Meeting of
the Microbiological Society of Korea**

May 12-13, 2011 Gwangju, Korea

Contents



Timetable	2
Floor Plan	4
Scientific Programs	6
Plenary Lectures	6
Symposia	7
MSK Award Session	14
Workshop	14
Colloquium	15
The 3 rd Korea-Japan Symposium on Microbial Ecology	16
Poster Sessions	18
Author Index	59
Exhibition	70

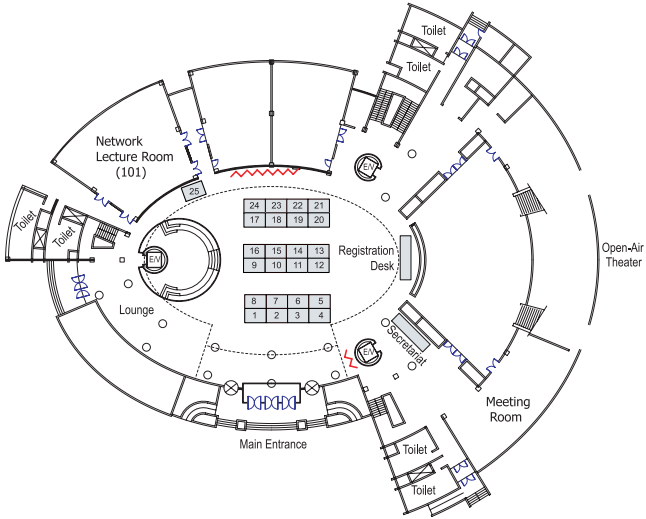
Timetable

		May 12 (Thu)			
		Lecture Room BC (2F)	Dasan Hall (2F)	Lecture Room H (3F)	Network Lecture Room (1F)
09:00	Registration				
10:00		Opening Ceremony (09:50-10:00, Dasan Hall)			
11:00		S1 Recent Development and Molecular Epidemiology of Enteric Viruses	S2 Fungal Genomics & Development	S3 Throughput Technology for Applied Microbiology	Korea-Japan Symposium 1
12:00					
13:00		MSK General Meeting (12:00-13:15)	L U N C H (12:00-13:15)		
14:00		Poster Presentation 1 (13:15-14:00)			
15:00		PL1 : Prof. Fusao Tomita (14:00-14:45, Dasan Hall)			
16:00		PL2 : Prof. B. Gillian Turgeon (14:45-15:30, Dasan Hall)			
17:00		S4 Microbial Virulence Mechanisms	S5 Microbial Stress Response	S6 Bioenergy: Status, Challenges, and Prospect	
18:00		Retirement Commemorative Lecture (17:30-18:00, Lecture Room H)			
	Welcome Reception (18:00~20:00, Gym)				

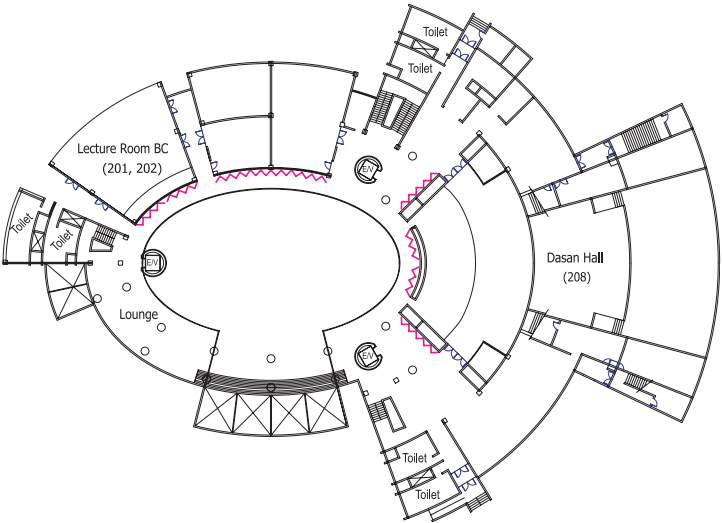
May 13 (Fri)					
		Lecture Room BC (2F)	Dasan Hall (2F)	Lecture Room H (3F)	
09:00	Registration Poster Session 2				
10:00		Korea-Japan Symposium 2 (Young Scientist Session)	MSK Award Session	Colloquium Young Scientist Session (09:40-12:00)	
11:00					
12:00		LUNCH (12:00-13:15)			
13:00		Poster Presentation 2 (13:15-14:00)			Workshop : Chunlab Inc. (12:30-14:00)
14:00		PL 3 : Dr. Rolf Thauer (14:00-14:45, Dasan Hall)			
15:00		PL 4 : Prof. Alfons Stams (14:45-15:30, Dasan Hall)			
16:00		S7 Microbial Signal Transduction	S8 Microbial Ecological Studies Based on Next Generation Sequencing (NGS) Technology	S9 Epidemiology of Reemerging Pathogens	
17:00					
18:00		Closing Ceremony (18:00-18:30, Lecture Room BC)			

Floor Plan

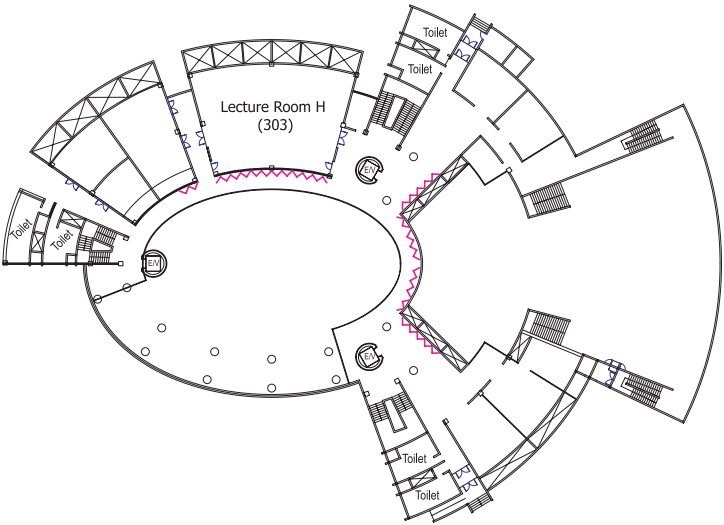
1st Floor



2nd Floor



3rd Floor



1F

- Lobby
- Lounge
- Network Lecture Room (101)
- Registration Desk, Exhibition
- MSK Café 1
- Korea-Japan Symposium 1

2F

- Lounge
- Lecture Room BC (201, 202)
- Dasan Hall (208)
- Open Hallway
- MSK Café 2
- S1, S4, S7, Korea-Japan Symposium 2, General Meeting
- Plenary Lectures, S2, S5, MSK Award Session, S8
- Poster Session

3F

- Lecture Room H (303)
- Open Hallway
- S3, S6, Retirement Commemorative Lecture Colloquium, Workshop, S9
- Poster Session

Gym

- (next to Oyrong Hall)
- Welcome Reception

Scientific Programs

Plenary Lectures

PL1

Plenary Lecture 1

14:00-14:45, May 12 (Thu.) Dasan Hall (2F)

Chair: Sang-Ki Rhee, Soon Chun Hyang Univ.

Microbes in Permafrost

Fusao Tomita, Emeritus Professor of Hokkaido Univ., and

Chair, National Organizing Committee for IUMS Congresses 2011, Japan

PL2

Plenary Lecture 2

14:45-15:30, May 12 (Thu.) Dasan Hall (2F)

Chair: Sung-Hwan Yun, Soon Chun Hyang Univ.

Secondary Metabolism and Host Selective Toxin Production in *Cochliobolus heterostrophus*

B. Gillian Turgeon, Cornell Univ., USA

PL3

Plenary Lecture 3

14:00-14:45, May 13 (Fri.) Dasan Hall (2F)

Chair: Sung-Jae Lee, Kyung Hee Univ.

Flavin-Based Electron Bifurcation in Anaerobic Bacteria and Archaea: a Novel Mechanism of Energy Coupling

Rudolf K. Thauer, Max Planck Institute for Terrestrial Microbiology, Germany

PL4

Plenary Lecture 4

14:45-15:30, May 13 (Fri.) Dasan Hall (2F)

Chair: Sung Gyun Kang, Korea Ocean Research & Development Institute

Metabolic Interactions in Syntrophic Methanogenic Communities

Alfons Johannes Maria Stams, Wageningen Univ., Netherlands

Symposia

S1

Recent Development and Molecular Epidemiology of Enteric Viruses

10:00-12:00, May 12 (Thu.) Lecture Room- BC (2F)

Chair: Yong Seok Jeong, Kyung Hee Univ.

S1-1 10:00-10:30

Nationwide Surveillance for Hand Foot and Mouth Disease and Genetic Diversity of Enterovirus 71 Circulating in Korea During 2009 and 2010 Epidemics

Doo Sung Chun, NIH, Korea Center for Disease Control and Prevention

S1-2 10:30-11:00

Vitamin A Supplementation and Norovirus Infection

GwangPyo Ko, Seoul National Univ.

S1-3 11:00-11:30

Molecular Epidemiology of Human Group A Rotavirus in Korea

Jung Oak Kang, Hanyang Univ.

S1-4 11:30-12:00

Norovirus Classification, Where Are We Headed?

Kazuhiko Katayama, Nat'l Institute of Infectious Diseases, Japan

S2

Fungal Genomics & Development

10:00-12:00, May 12 (Thu.) Dasan Hall (2F)

Chair: Kwang-Soo Shin, Daejeon Univ.

S2-1 10:00-10:30

Bioprospecting Biotechnology of Lignocellulose Degradative Fungi

Hunsa Punnapayak, Chulalongkorn Univ., Thailand

S2-2 10:30-11:00

Exploring the UPR Pathway in Human Fungal Pathogens

Yong-Sun Bahn, Yonsei Univ.

Chair: Suh-kee Chae, Pai Chai Univ.

S2-3 11:00-11:30

Genome-wide Expression Profiling of Transcription Factor Genes Provides New Insights into Regulatory Mechanisms underpinning Pathogenicity and Stress Responses in *Magnaporthe oryzae*

Sook-Young Park, Seoul National Univ.

S2-4 11:30-12:00

Discovery & Functional Analysis of Fungal Genes involved in Development & Secondary Metabolism

Pil Jae Maeng, Chungnam National Univ.

S3

Throughput Technology for Applied Microbiology

10:00-12:00, May 12 (Thu.) Lecture Room H (3F)

Organized by Microbe-Based Fusion Technology Research Center, KRIBB

Chair: Jae Jun Song, KRIBB

S3-1 10:00-10:30

High-Throughput Screening System and Its Biotechnological Applications

Jong Hyun Choi, Korea Research Institute of Bioscience and Biotechnology (KRIBB)

S3-2 10:30-11:00

Microdroplets as a New Challenging Platform Technology for Applied Microbiology

Seok Jae Lee, National Nano Fab Center

S3-3 11:00-11:30

High Throughput Enzyme Engineering for New Biocatalysts

Seung-Goo Lee, Korea Research Institute of Bioscience and Biotechnology

S3-4 11:30-12:00

Effective Screening of Optimized Diploid *Saccharomyces cerevisiae* Strain for Direct Ethanol Production from Cellulosic Materials by Displaying Ratio Adjustment of Cellulolytic Enzymes

Chiaki Ogino, Kobe Univ., Japan

S4**Microbial Virulence Mechanisms**

15:30-17:30, May 12 (Thu.) Lecture Room BC (2F)

Chair: GwangPyo Ko, Seoul National Univ.

S4-1 15:30-15:55

The Molecular Mechanisms of Microorganisms Infect against Nematodes

Ke-Qin Zhang, Yunnan Univ., China

S4-2 15:55-16:20

Therapeutic Effect of Formyl Peptide Receptor Agonists against Severe Sepsis after Microbial Infection

Yoe-Sik Bae, Sungkyunkwan Univ.

S4-3 16:20-16:45

Microbial Metabolite-mediated Mucosal ER/Ribotoxic Stress and Chemokine Regulation: Etiological Links to Human IBD

Yuseok Moon, Pusan National Univ.

S4-4 16:45-17:10

Insight into *Vibrio cholerae* O1 Population within the Seventh Cholera Pandemic

Dong Wook Kim, International Vaccine Institute (IVI)

S4-5 17:10-17:35

Peculiarities of Microbic Phenotype and Colonization Resistance of Children in the North Conditions

Yana Aleksandrovna Akhremenko, North-Eastern Federal Univ., Russia

S5**Microbial Stress Response**

15:30-17:30, May 12 (Thu.) Dasan Hall (2F)

Chair: Jung-Hye Roe, Seoul National Univ.

S5-1 15:30-16:00

The Phage-Shock-Protein Stress Response of *Yersinia enterocolitica*

Andrew J. Darwin, New York Univ., USA

S5-2 16:00-16:30

Pupylation in *Mycobacterium tuberculosis*

K. Heran Darwin, New York Univ., USA

S5-3 16:30-17:00

Quorum Sensing-Dependent Response to Light and Temperature in *Burkholderia glumae*

Ingyu Hwang, Seoul National Univ.

S5-4 17:00-17:30

Photoprotective Compounds from Microalgae

Maribel L. Dionisio-Sese, Univ. of the Philippines, Los Banos, Philippines

S6**Bioenergy: Status, Challenges, and Prospect**

15:30-17:30, May 12 (Thu.) Lecture Room H (3F)

Chair: In Seop Kim, Hannam Univ.

S6-1 15:30-16:00

Engineering Cellobiose Metabolism in *E. coli*: a Step towards Consolidated Bioprocessing

Sung Kuk Lee, Ulsan National Institute of Science and Technology

S6-2 16:00-16:30

Production of Ethanol, the Second Generation Biofuel, from *Prosopis juliflora*, a Panatropical Weed

Ramesh Chander Kuhad, Univ. of Delhi, India

S6-3 16:30-17:00

Biological Hydrogen Production from Wastes by Integration of Dark and Light Fermentation

Mi-Sun Kim, Korea Institute of Energy Research

S6-4 17:00-17:30

Hydrogen Production of *Thermococcus onnurineus NA1*

Sung Gyun Kang, Korea Ocean Research & Development Institute

S7

Microbial Signal Transduction

15:30-18:00, May 13 (Fri.) Lecture Room BC (2F)

Chair: Hyon E. Choy, Chonnam National Univ.

S7-1 15:30-16:00

Archaeal Sugar-Sensing Transcriptional Regulator TrmB : Structure, Functional Roles and Genomic Distribution

Sung-Jae Lee, Kyung Hee Univ.

S7-2 16:00-16:30

Signal transduction of γ -Butyrolactone Autoregulator for Secondary Metabolite Production in Actinomycetes

Sun-Uk Choi, Kyungnam Univ.

S7-3 16:30-17:00

Acidic pH-triggered Proteolytic Transmembrane Signaling of *Salmonella* Transcriptional Regulators

Iel-Soo Bang, Chosun Univ.

S7-4 17:00-17:30

***Vibrio vulnificus* RtxA1-Mediated Signal Transduction to Cause Acute Programmed Necrotic Cell Death**

Young Ran Kim, Dongshin Univ.

S7-5 17:30-18:00

Regulation of Mucosal Defense in Response to the Infection of *Streptococcus pneumoniae*

Un-Hwan Ha, Korea Univ.

Chair: Sung-Keun Rhee, Chungbuk National Univ.

S8-1 15:30-16:00

Metagenomics and the NGS Technology

Francisco Rodríguez-Valera, Universidad Miguel Hernandez, Spain

S8-2 16:00-16:30

Metagenomic and Metatranscriptomic Analysis of Kimchi, the Korean Traditional Fermented Food

Che Ok Jeon, Chung-Ang Univ.

S8-3 16:30-17:00

Genomic Approaches to Examine and Exploit the Bacterial Diversity of Asian Desert Samples and Their Potential for Long-Distance Transport by Asian Sandstorms

Michael S. DuBow, Université Paris-Sud, France & Yonsei/Paris-Sud Project

S8-4 17:00-17:30

Metagenomic Study of Single-stranded DNA and Double-stranded DNA Viruses in Soil and Marine Environment by Sequencing-based Approaches

Kyoung-Ho Kim, Pukyong National Univ.

S8-5 17:30-18:00

Discovering the Roles of Microorganisms in the Biogeochemistry of a Contaminated Aquifer

Eugene L. Madsen, Cornell Univ., USA

Chair: Young S. Lyoo, Konkuk Univ.

S9-1 15:30-16:00

Foot-and-Mouth Disease (FMD) in Korea

Choi-kyu Park, Nat'l Veterinary Research & Quarantine Service

S9-2 16:00-16:30

Epidemiology of Global Outbreak High Pathogenic Avian Influenza

Hyung-Kwan Jang, Chonbuk National Univ.

S9-3 16:30-17:00

Swine Hepatitis E Virus (HEV)

In-Soo Choi, Konkuk Univ.

S9-4 17:00-17:30

Current Antimicrobial Resistances Including NDM-1

Donggeun Yong, Yonsei Univ.

MSK Award Session

SA

MSK Award Session

10:00-12:00, May 13(Fri.) Dasan Hall (2F)

Chair: Kiseong Joh, Hankuk Univ. of Foreign Studies

SA-1 10:00-10:30

Comparative Analysis of Korean Human Gut Microbiota

Jin-Woo Bae, Kyung Hee Univ., 2010년 CJ BIO상 수상자

SA-2 10:30-11:00

Structural Basis for the Specialization of Nur in Metal Sensing and DNA Recognition

Sun-Shin Cha, Korea Ocean Research & Development Institute

2010년 KRIBB 학술상(신진과학자부문) 수상자

SA-3 11:00-11:30

Molecular Analysis of SmcR, a LuxR Homologue of *Vibrio vulnificus*, a Fulminating Pathogen

Sang Ho Choi, Seoul National Univ., 2010년 KRIBB 학술상(선도과학자부문) 수상자

SA-4 11:30-12:00

Production of Medium-chain-length Polyhydroxyalkanoates by Waste Activated Sludge

Young Ha Rhee, Chungnam National Univ., 2010년 JM 우수논문상 수상자

Workshop

W1

Chunlab, Inc.

12:30-14:00, May 13 (Fri.) Lecture Room H (3F)

Chair: Jongsik Chun, Seoul National Univ.

W1-1 13:00-14:00 (12:30-13:00 Lunch)

Strategy and Bioinformatics for Microbial Genomics and Metagenomics using Next Generation Sequencing

Yoon-Seong Jeon, ChunLab, Inc.

Colloquium

C1

Young Scientists Session 1

09:40-12:00, May 13(Fri.) Lecture Room H (3F)

Chair: Kyudong Han, Dankook Univ.

C1-1 09:40-10:00

Comparative Analysis of the Community of Culturable Bacteria Associated with Sponges, *Spirastrella abata* and *Spirastrella panis* by 16S rDNA-RFLP

Hyun-Hee Cho, Hannam Univ.

C1-2 10:00-10:20

Distribution and Microbial Diversity in South China Sea

Nan Li, Korea Ocean Research & Development Institute

C1-3 10:20-10:40

Comprehensive Approach of Bacterial Diversity in the Seawater of Gwangyang Bay

Seong Chan Park, Suncheon National Univ.

C1-4 10:40-11:00

Effect of Capsule and ClpL on Starvation of *Streptococcus pneumoniae*

Thao Dang-Hien Tran, Sungkyunkwan Univ.

C1-5 11:00-11:20

Crystal Structure of Zur Protein and Graded Expression of Zinc-responsive Genes through Two Regulatory Zinc-binding Sites in Zur

Jung-Ho Shin, Seoul National Univ.

C1-6 11:20-11:40

Fabrication of PVDF Nanofiber Western Membrane by Electrospinning Method for Detecting Protein with High Sensitivity and without Methanol Pre-wet Step

Chan Kim, Chosun Univ.

C1-7 11:40-12:00

Global Analysis of *in vivo* Protein SUMOylation in *Saccharomyces cerevisiae* Using Bimolecular Fluorescence Complementation (BiFC) Assay

Min-Kyung Sung, Seoul National Univ.

The 3rd Korea-Japan Symposium on Microbial Ecology

KJS1

Korea-Japan Symposium Session 1

10:00-12:05, May 12 (Thu.) Network Lecture Room (1F)

Chair: Koji Hamasaki, The Univ. of Tokyo

KJS1-1 10:00-10:25

Microbes in Aquaculture: Probiotic vs. Pathogenic

Mitsuru Eguchi, Kinki Univ., Japan

KJS1-2 10:25-10:50

Thaumarchaeal Nitrification in Terrestrial Environments

Sung-Keun Rhee, Chungbuk Nat'l Univ.

Chair: Jong-Shik Kim, Gyeongbuk Institute for Marine Bioindustry

KJS1-3 10:50-11:15

Elaborate Microbial Ecosystems Evolved in Hot Springs

Shin Haruta, Tokyo Metropolitan Univ., Japan

KJS1-4 11:15-11:40

Metagenomic Analysis of the Viral Community in Fermented Foods

Eun-Jin Park, Jeju National Univ.

KJS1-5 11:40-12:05

Degradation of Octylphenol Polyethoxylate Surfactant and the Estrogenic-like Metabolites by Bacteria Isolated in Taiwan

Shir-Ly Huang, National Central Univ., Taiwan

Chair: Kentaro Inoue, The Univ. of Tokyo, Japan

KJS2-1 10:00-10:25

What I DID, am DOING, and will DO?

Ok Sun Kim, Korea Polar Research Institute

KJS2-2 10:25-10:50

Can You Answer this Question in Your Own Words?**"Why are You Interested in the Matter?"**

Susumu Yoshizawa, The Univ. of Tokyo, Japan

KJS2-3 10:50- 11:15

Don't Think You've Learnt Everything

Eunhea Jho, Seoul National Univ.

Chair: Jaejin Lee, Yonsei Univ.

KJS2-4 11:15-11:30

Guiding Principle for Better World with Soil Microbiology**- Case Study in My Research Progress and Future -**

Hironori Arai, Chiba Univ., Japan

KJS2-5 11:30-11:45

Microbial Applications in Environmental Industry

Jangho Lee, Yonsei Univ.

KJS2-6 11:45-12:00

Salty Research and Salty Life

Kentaro Inoue, The Univ. of Tokyo, Japan

Poster Sessions

Session	Schedule	Topics	Poster Presentation
Poster Session 1	Set-up: May 12, 09:00 Removal: May 12, 17:30	A, C, D, G	May 12 13:15-14:00
Poster Session 2	Set-up: May 13, 09:00 Removal: May 13, 17:00	B, E, F, H	May 13 13:15-14:00

⇒ Poster presenters stand by their posters and answer questions about their research projects during the presentation time.

Poster Topics and Location

	Topic	Poster No.	Location
A	미생물분류 Systematics	A001-A038	Hallway of 3rd Floor
C	응용미생물학 Applied Microbiology	C001-C019	Hallway of 3rd Floor
D	면역·병원미생물학 Immunology and Microbial Pathogenesis	D001-D037	Hallway of 2nd Floor
G	생물공학 Biotechnology	G001-G037	Hallway of 2nd Floor

	Topic	Poster No.	Location
B	생태·환경미생물학 Ecology and Environmental Microbiology	B001-B058 B059-B071	Hallway of 3rd Floor Hallway of 2nd Floor
E	생리·생화학 Physiology and Biochemistry	E001-E015	Hallway of 2nd Floor
F	미생물유전학 Genetics	F001-F029	Hallway of 2nd Floor
H	기타 Others	H001-H009 H010-H022	Hallway of 2nd Floor Main Lobby

A 미생물분류 / Systematics

A001

***Pedobacter soyangnesis* sp. nov., Isolated from a Soyang Lake in Korea**

Yochan Joung¹, Heeyoung Kang², Haneul Kim², Ara Jo²,
Seung-Ik Choi³, Tae-Seok Ahn¹, and Kiseong Joh^{2,*}

¹Department of Environmental Science, Kangwon National University,

²Department of Bioscience and Biotechnology, Hankuk University of Foreign Studies,

³Institute of Environmental Research, Kangwon National University

A002

***Janthinobacterium yonginensis* sp. nov., Isolated from a Mesotrophic Artificial Lake in Korea**

Haneul Kim¹, Beom-Il Lee¹, Hae Ji Choi¹, Yochan Joung²,
Tae-Seok Ahn², Tae Yong Jang¹, and Kiseong Joh^{1,*}

¹Department of Bioscience and Biotechnology, Hankuk University of Foreign Studies,

²Department of Environmental Science, Kangwon National University

A003

The Effect of DuolacTM on the Intestinal and Immune System of Rats

Hyang Mi An¹, Do Kyung Lee¹, Jung Rae Kim¹, Min Kyeong Cha¹,
Si Won Lee¹, Kang Oh Lee², and Nam Joo Ha^{1,*}

¹College of Pharmacy, Sahmyook University, ²Department of Life Science,
Sahmyook University

A004

***Sagittula damupoensis* sp. nov., a Marine Bacterium Isolated from Seawater**

Dong-Heon Lee¹ and Sun Bok Lee^{1,2,*}

¹Department of Chemical Engineering, ²Gyeongbuk Sea Grant Institute,
Pohang University of Science and Technology

A005

***Psychroserpens damupoensis* sp. nov., a Marine Bacterium Isolated from Seawater**

Dong-Heon Lee¹ and Sun Bok Lee^{1,2,*}

¹Department of Chemical Engineering, ²Gyeongbuk Sea Grant Institute,
Pohang University of Science and Technology

A006

A Pathway for Mitochondrial Thioredoxin to Support Nuclear Expression of Arginine Biosynthetic Genes in *Schizosaccharomyces pombe*

Hyo-Jin Kim, Kyoung-Dong Kim, and Jung-Hye Roe^{*}

Laboratory of Molecular Microbiology, School of Biological Sciences,
and Institute of Microbiology, Seoul National University

A007

Isolation and Characterization of Bacteriophage SSP002 infecting *V. vulnificus* and Evaluation of Its Therapeutic Potential

Slae Choi, Hyun Sung Lee, Seung Min Kim, and Sang Ho Choi^{*}

National Research Laboratory of Molecular Microbiology and Toxicology,
Department of Agricultural Biotechnology, Seoul National University

A008

***Kordiimonas aquimaris* sp. nov., Isolated from Seawater of the East Sea in Korea**

Sung-Hyun Yang, Hyun-Seok Seo, Mi-Ree Kim, Jung-Hyun Lee,
Sang-Jin Kim, and Kae Kyoung Kwon*

Marine Biotechnology Research Center, Korea Ocean Reserch & Development Institute

A009

Isolation and Identification of Antibacterial Actinomycetes Against *Ralstonia solanacearum*

Sangdong Bae^{1,2}, Sungil Kim³, Sechan Oh¹, Younghee Jung¹, and Jongsang Chung^{1,*}

¹*Biotech Idea Group Co., Ltd.*, ²*Department of Microbial & Nano Materials,*

Mokwon University, ³*Gangwondo Agricultural Research and Extension Services*

A010

***Leucobacter denitrificans* sp. nov., Isolated from Cow Dung**

Soon-Wo Kwon^{1,*}, Hang-Yeon Weon¹, Rangasamy Anandham², Tomohiko Tamura³,
Moriyuki Hamada³, Soo-Jin Kim¹, Yi-Seul Kim¹, and Ken-ichiro Suzuki³

¹*Korean Agricultural Culture Collection, National Academy of Agricultural Science,*

Rural Development Administration, ²*Department of Agricultural Microbiology,*

Agricultural College and Research Institute, India, ³*NITE Biological Resource Center,*

National Institute of Technology and Evaluation, Japan

A011

***Amycolatopsis* sp. nov., Isolated from Oak-sawdust Composting Pile for *Lentinus edodes* Cultivation**

Seo-Yeon Yun¹, Ji-Hyun Nam¹, Chang-Duck Koo², and Dong-Hun Lee^{1,*}

¹*Department of Microbiology, Chungbuk National University,*

²*Department of Forest Science, Chungbuk National University*

A012

***Microbacterium suwonense* sp. nov., Isolated from Cow Dung**

Soon-Wo Kwon^{1,*}, Hang-Yeon Weon¹, Soo-Jin Kim¹, Yi-Seul Kim¹,

Tomohiko Tamura², Moriyuki Hamada², and Ken-ichiro Suzuki²

¹*Korean Agricultural Culture Collection, National Academy of Agricultural Science,*

Rural Development Administration, ²*NITE Biological Resource Center,*

National Institute of Technology and Evaluation, Japan

A013

***Paralcaligenes ureilyticus* gen. nov., sp. nov. Isolated from Soil of a Korean Ginseng Field**

Soo-Jin Kim^{1,*}, Seung-Hee Yoo¹, Hang-Yeon Weon¹, Yi-Seul Kim¹,

Rangasamy Anandham², and Soon-Wo Kwon¹

¹*Korean Agricultural Culture Collection, Agricultural Microbiology Team,*

National Academy of Agricultural Science, Rural Development Administration,

²*Department of Agricultural Microbiology, Agricultural College and*

Research Institute, India

A014**Genetic Population of *Bacillus anthracis* Isolates from Korea Compare With Global Genetic Population**

SangHoon Kim¹, Hee-Bok Oh², Seong-Joo Kim¹, Ji-Cheon Kim¹, Kwang-Keun Oh³, Jin Choul Chai¹, Soo Young Cho¹, Young Seek Lee¹, Se Kye Kim¹, Kyoung Hwa Jung⁴, and Young Gyu Chai^{1,*}

¹*Division of Molecular and Life Sciences, Hanyang University,*

²*Department of Bacteriology, National Institute of Health,*

³*Department of Bioprocess Technology, BioPolytechnic College,*

⁴*Institute of Natural Science and Technology, Hanyang University*

A015**Characterization and Description of Novel Strain 03SU10-P, Isolated from Fresh Water of Woopo Wetland**

Mi Sun Kim¹, Han Na Choi¹, Seong Chan Park¹, Keun Sik Baik¹, Eun Mi Kim², and Chi Nam Seong^{1,*}

¹*Department of Biology, Suncheon National University,*

²*Department of Dental Hygiene, Gwangju Health College University*

A016**A Bacterium Representing Novel Genus in the Family *Flavobacteriaceae*, Isolated from Seawater of Gwangyang Bay**

Han Na Choi, Seong Chan Park, Keun Sik Baik, and Chi Nam Seong^{*}
Department of Biology, Suncheon National University

A017***Neptunomas* sp. nov., Isolated from Ark Clams**

Hae Won Lee, Na-Ri Shin, and Jin-Woo Bae^{*}

Department of Life and Nanopharmaceutical Sciences and Department of Biology, Kyung Hee University

A018***Blautia stercoris* sp. nov., Isolated from Human Feces**

Seong-Kyu Park, Min-Soo Kim, Seong Woon Roh, and Jin-Woo Bae^{*}

Department of Life and Nanopharmaceutical Sciences and Department of Biology, Kyung Hee University

A019***Ruegeria conchae* sp. nov., Isolated from the Ark Clam in the South Sea of Korea**

Jina Lee, Tae Woong Whon, Na-Ri Shin, Seong Woon Roh, Jandi Kim, Seong-Kyu Park, Min-Soo Kim, and Jin-Woo Bae^{*}

Department of Life and Nanopharmaceutical Sciences and Department of Biology, Kyung Hee University

A020***Corynebacterium nuruki* sp. nov., Isolated from Alcohol Fermentation Starter**

Na-Ri Shin, Mi-Ja Jung, Min-Soo Kim, Seong Woon Roh, Young-Do Nam, and Jin-Woo Bae^{*}

Department of Life and Nanopharmaceutical Sciences and Department of Biology, Kyung Hee University

A021***Kushenria salsicia* sp. nov. Isolated from a Salt-fermented Food**

Ji-Hyun Yun, Seong-Kyu Park, Seong Woon Roh, Mi-Ja Jung, and Jin-Woo Bae*
*Department of Life and Nanopharmaceutical Sciences and Department of Biology,
Kyung Hee University*

A022***Lactobacillus kimchiensis* sp. nov., Isolated from a Fermented Food**

Jandi Kim, Seong Woon Roh, and Jin-Woo Bae*
*Department of Life and Nanopharmaceutical Sciences and Department of Biology,
Kyung Hee University*

A023**Phenotypic Characterization and Genomic Analysis of the Newly Isolated Bacteriophage SBP**

Yun-Ji Kim, Ji-Hyun Yun, and Jin-Woo Bae*
*Department of Life and Nanopharmaceutical Sciences and Department of Biology,
Kyung Hee University*

A024***Shinella* sp. nov., a Novel Endophytic Bacterium Isolated from *Miscanthus sinensis***

Hye Young Kang, Dong-Jin Park, Jae-Chan Lee, and Chang-Jin Kim*
Korea Research Institute of Bioscience and Biotechnology

A025**Isolation and Identification of Novel Endophytic Bacterium, Strain MSLE 300 from *Miscanthus sinensis***

Hye Young Kang, Dong-Jin Park, Jae-Chan Lee, and Chang-Jin Kim*
Korea Research Institute of Bioscience and Biotechnology

A026**Taxonomic Study of a Novel *Herbiconiux* Strain MSLE 348, Isolated from *Miscanthus sinensis***

Hye Young Kang, Dong-Jin Park, Jae-Chan Lee, and Chang-Jin Kim*
Korea Research Institute of Bioscience and Biotechnology

A027***Sporobolomyces forsythiae* sp. nov., a Ballistoconidium-forming Yeast Isolated from Korean Forsythia Flower**

Mi-Ja Jung¹, Young-Do Nam², Seong-Kyu Park¹, and Jin-Woo Bae^{1,*}
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Kyung Hee University,* ²*Traditional Food Research Group,
Korea Food Research Institute*

A028

***Kordia gangjinensis* sp. nov., a Marine Bacterium Isolated from Seawater**

Young Sun Lee¹, San Ho Sohn¹, Hyun Seok Koh¹, Hee Jin Kim¹,
Hyung-Yeel Kahng², and Jae Sung Jung^{1,*}

¹Department of Biology Suncheon National University,

²Department of Environmental Education Suncheon National University

A029

***Catenulispora gramineus* sp. nov., Rhizobacterium from Bamboo (*Phyllostachys nigro* var. *henonis*) Forest Soil**

Hyo-Jin Lee¹, Song-Ih Han¹, and Kyung-Sook Whang^{1,2,*}

¹Department of Microbial & Nano Materials, Mokwon University,

²Institute of Microbial Ecology & Resources, Mokwon University

A030

Terriglobus polysaccharae* sp. nov., Exopolysaccharide Producing Acidobacteria from Rhizoplane of *Angelica sinensis

Hae-Ran Lee¹, Hyo-Jin Lee¹, Song-Ih Han¹, and Kyung-Sook Whang^{1,2,*}

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²Institute of Microbial Ecology & Resources, Mokwon University

A031

Control of Ribosomal Protein Genes Under Stress Conditions in *Saccharomyces cerevisiae*

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Laboratory of Biochemistry, School of Life Sciences and Biotechnology,
Korea University

A032

***Salinisphaera orenii* sp. nov., Isolated from a Solar Saltern**

Soo-Je Park¹, In-Tae Cha¹, So-Jeong Kim¹, Kee-Sun Shin², and Sung-Keun Rhee^{1,*}

¹Department of Microbiology, Chungbuk National University,

²Biological Resources Center, Korea Research Institute of Bioscience and
Biotechnology

A033

A Polyphasic Investigation on a Novel Actinobacterium Isolated from Soil of a Ginseng Field

Kwang Kyu Kim, Keun Chul Lee, and Jung-Sook Lee^{*}

Korean Collection for Type Cultures, Biological Resource Center,
Korea Research Institute of Bioscience and Biotechnology

A034

Identification of HNS Nucleation Site and Mechanism of Ler Mediated Derepression

Daejin Lim^{*}

Chonnam National University

A035

Conclusive Morphology and Molecular Phylogeny of *Phellinus linteus* Complex

Jin Sung Lee¹, Soon-Ja Seok², and Young Woon Lim^{3,*}

¹National Institute of Biological Resources, ²National Academy of Agricultural Science,

³School of Biological Sciences, Seoul National University

A036

***Paenibacillus hankukensis* sp. nov., Isolated from the Soil of the Dokdo Island**

Sung-Jun Cho¹, Sung-Heun Cho², Suhk-Hwan Park¹,

Seung-Bum Kim², and Geon-Hyoung Lee^{1,*}

¹Kunsan National University, ²Chungnam National University

A037

***Stakelama sediminis* sp. nov., Isolated from Tidal Flat Sediment**

Cung Nawl Thawng, Sung-Joon Park, Ju-Hee Cha, and Chang-Jun Cha^{*}

Department of Biotechnology (BK21 Program), Chung-Ang University

A038

Phylogenetic Status of Two Strains of *Erysiphe* Species Causing Powdery Mildew on Red Clover in Korea

Chang Jeon Kim, Hey Yeon Mun, and Hyang Burm Lee^{*}

Division of Applied Bioscience & Biotechnology, College of Agriculture & Life Sciences, Chonnam National University

B001

***Erythrobacter marincola* sp. nov., a Novel Marine Bacterium Isolated from Seawater**

Dong-Heon Lee¹, Young Sun Lee², Jae Sung Jung², and Hyung-Yeel Kahng^{3,*}

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²Department of Biology, Sunchon National University, ³Department of Environmental Education, Sunchon National University

B002

Characterization of a Bacterial Consortium from Marine Wetland Capable of Endosulfan Degradation

Khorloo Yundendorj¹, Sam Young Ahn¹, Kyoung Ho Kang², and Hyung-Yeel Kahng^{1,*}

¹Department of Environmental Education, Sunchon National University,

²Department of Aquaculture, Chonnam National University

B003

Frequency of Antibiotic Resistant *Escherichia coli* Isolates Obtained From Gwangju River

Yae-Seul Suh, Jeonghwan Jang, Doris Yoong Wen Di, and Hor-Gil Hur^{*}

School of Environment Science and Engineering,

Gwangju Institute of Science and Technology

B004

Horizontal Fluorophore-enhanced rep-PCR (HFERP) Fingerprints Analysis of *Escherichia coli* Diversity from Gwangju River, Republic of Korea

Doris Yoong Wen Di¹, Tatsuya Unno², Jeonghwan Jang¹,

Yae-Seul Suh¹, and Hor-Gil Hur^{1,3,*}

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University of Minnesota, USA, ³International Environmental Research Center,

Gwangju Institute of Science and Technology

B005

Seasonal and Site-specific Diversities of *Escherichia coli* Strain in the Yeongsan River Basin, Jeonnam Province

Jeonghwan Jang¹, Tatsuya Unno², Seung Won Lee¹, Kyung Hwa Cho³,

Michael J. Sadowsky^{2,4}, GwangPyo Ko⁵, Joon Ha Kim¹, and Hor-Gil Hur^{1,6,*}

¹School of Environmental Science and Engineering, Gwangju Institute of Science and Technology, ²BioTechnology Institute, University of Minnesota, USA, ³Department of

Civil and Environmental Engineering, University of Massachusetts, USA, ⁴Department of Soil, Water and Climate, University of Minnesota, USA, ⁵Department of

Environmental Public Health, Seoul National University, ⁶International Environmental Research Center, Gwangju Institute of Science and Technology

B006**The Abundance of Low Nucleic Acid (LNA)-Content Bacteria and Biodiversity of LNA Bacterial Isolates from the Sea Water**

Mi-Ree Kim¹, JaeHo Song², Kazuhiro Kogure², and Sang-Jin Kim^{1,3,*}

¹Marine Biotechnology Research Centre, Korea Ocean Research & Development Institute, ²Marine Life System, Atmosphere and Ocean Research Institute, The University of Tokyo, Japan, ³Department of Marine Biotechnology, University of Science and Technology

B007**Diversity of Proteorhodopsin (PR) Genes from Marine Microbial Isolates**

Nan Li¹, Mi-ree Kim¹, Yoshizawa Susumu², Sung-Hyun Yang¹, Kae-Kyoung Kwon^{1,3}, Kazuhiro Kogure², and Sang-Jin Kim^{1,3,*}

¹Marine Biotechnology Research Centre, Korea Ocean Research & Development Institute, ²Marine Life System, Atmosphere and Ocean Research Institute, The University of Tokyo, Japan, ³Department of Marine Biotechnology, University of Science and Technology

B008**Antimicrobial Activity and DNA Fingerprint Analysis of *Pseudomonas aeruginosa* Obtained from Clinical Isolates and Unchlorinated Drinking Water in Korea, 2010**

Do Kyung Lee¹, Jung Rae Kim¹, Hyang Mi An¹, Si Won Lee¹, Min Kyeong Cha¹, Kang Oh Lee², and Nam Joo Ha^{1,*}

¹College of Pharmacy, Sahmyook University, ²Department of Life Science, Sahmyook University

B009**Bacterial Production of Uranium Nanowires**

Shenghua Jiang¹ and Hor-Gil Hur^{1,2,*}

¹School of Environmental Science and Engineering, ²International Environmental Research Center, Gwangju Institute of Science and Technology

B010**Controlled Localization of Tellurium Nanosturctures formed by *Shewanella oneidensis* MR-1**

Dong-Hun Kim¹ and Hor-Gil Hur^{2,*}

¹School of Environmental Science and Engineering, ²International Environmental Research Center, Gwangju Institute of Science and Technology

B011**A New Quantitative 16S rDNA DGGE Method using Real-time PCR for Analysis of Soil Bacterial Community**

Hyo-Sun Lim, Min-Sun Kim, Dong-Uk Kim, I-Jung Kim, and Jong-Ok Ka^{*}

Department of Agricultural Biotechnology, Seoul National University

B012**Filter Plate as a Device for In Situ Environmental Cultivation**

Dawoon Jung¹ and Slava S. Epstein^{2,*}

¹Department of Environmental Science, Kangwon National University,

²Department of Biology, Northeastern University, USA

B013**Degradation of Polyethylene by a Thermophilic Bacterium**

Yeun Sug Jeong and Mal Nam Kim*

*Department of Life Science, Sangmyung University***B014****Nitrate-dependent PAH Biodegradation around Anoxic Burrows within Oil-contaminated Intertidal Flat**Jinwook Lee, KaeKyoung Kwon*, JongKun Kim, Un Hyuk Yim, and Sung Yong Ha
*Korea Ocean Research & Development Institute***B015****Comparison of Bacterial Community of Jeju Island sponge, *Scopalina* sp. and *Myxilla productus* based on DGGE Fingerprinting**

Eun-Ji Jeong and Jin-Sook Park*

*Department of Biotechnology, Hannam University***B016****Community Analysis of Cultivable Bacteria Associated with Sponges, *Haliclona* sp. and *Discodermia* sp.**

Chun-Soo Im, Eun-Ji Jeong, and Jin-Sook Park*

*Department of Biotechnology, Hannam University***B017****A Contrast of Bacteria Associated with the Sponge *Penares incrustans* Based on RFLP and DGGE**

Hun-Wook Park, Eun-Ji Jeong, and Jin-Sook Park*

*Department of Biotechnology, Hannam University***B018****Isolation and Characterization of Bacteria that Reduce Indigo to *Leuco*-indigo from Fermented Indigo Dye vat**Sunhwa Park¹, Ji-Young Ryu², and Hor-Gil Hur^{1,3,*}¹*School of Environmental Science and Engineering, Gwangju Institute of Science and Technology*, ²*Korea Ocean Research Institute*, ³*International Environmental Research Center, Gwangju Institute of Science and Technology***B019****Changes of Nitrifying Bacterial Community Structure depending on Pollutant in Nak-Dong River**

Seon-Yeong Jin and Young-Ok Lee*

*Daegu University***B020****Cosmopolitan and Abundant Freshwater Low GC Actinobacteria**Rohit Ghai, Katherine D. McMahon, and Francisco Rodriguez-Valera
Evolutionary Genomics Group, Universidad Miguel Hernandez, Spain

B021**Anodic microbial diversity of submerged-exchangeable microbial fuel cell for different COD loading rates**

Jaecheul Yu, Younghyun Park, and Taeho Lee*

*Pusan National University***B022****Diversity and Abundance of Single-Stranded DNA Viruses in Human Faeces**

Min-Soo Kim, Eun-Jin Park, Seong Woon Roh, and Jin-Woo Bae*

*Department of Life and Nanopharmaceutical Sciences and Department of Biology, Kyung Hee University***B023****Annual Variation of Bacterial Community in the Freshwater of Woopo Wetland, as Revealed by Denaturing Gradient Gel Electrophoresis**Han Na Choe¹, Keun Sik Baik¹, Seong Chan Park¹, Duwoon Kim²,Eun Mi Kim³, and Chi Nam Seong^{1,*}*¹Department of Biology, Suncheon National University, ²Department of Dental Hygiene, Gwangju Health College University, ³Department of Food Science and Technology, Chonnam National University***B024****Determination of Bacterial Communities in Meju, Fermented Soybean Bricks, Using Barcoded Pyrosequencing**

Yiseul Kim*, Soon-Wo Kwon, Soo-Jin Kim, In-Cheol Park, and Hang-Yeon Weon

*Agricultural Microbiology Team, National Academy of Agricultural Science, Rural Development Administration***B025****Yeast Community Associated with *Aloe vera* Plants by Microsatellite-Primed PCR and Sequence Analysis on the Basis of the D1/D2 Domains of 26S rRNA Gene**

Sungchang Choi, Nyun-Ho Park, Choong-Gon Kim, and Jong-Shik Kim*

*Gyeongbuk Institute for Marine Bioindustry***B026****Polymorphisms in Copy Number, Nucleotide Sequence and Orientation of Miniature Inverted Repeat Transposable Elements in Soft-Rot Bacteria**

Young-Gun Zo*

*Department of Biology, Kyungsung University***B027****Bacterial Community Structure and Diversity in Poultry Carcass Buried Soil and Leachate**Ju-Young Kim¹, Young-Gun Zo², Eun-Young Seo¹, and Tae-Seok Ahn^{1,*}*¹Department of Environmental Science, Kangwon National University,**²Department of Biology, Kyungsung University*

B028

Isolation and Characterization of Actinomyces from Freshwater Sponges in Lake Baikal*

Eun Young Seo, You Jung Jung, Yo Chan Joung, and Tae Seok Ahn*
Environmental Science Kangwon National University

B029

Effective Biological Treatment of Tannery Wastewater by Using A Microbial Agent BM-S-1

Kalu Ibe Ekpeghere¹, Shin-Young Ha¹, In-Soo Kim¹, Hong-Gi Kim²,
Sun-Chul Kang³, and Sung-Cheol Koh^{1,*}

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³*Department of Biotechnology, Daegu Univrsity*

B030

Analysis of Soil Bacterial Community Composition in Rhizosphere Soil Treated with Amino Acid Extracted from Chicken Feather Using 16S rRNA Gene-Based Pyrosequencing

Se Jong Kim¹, Song Ih Han¹, and Kyung Sook Whang^{1,2,*}

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²*Institute of Microbial Ecology and Resources, Mokwon University*

B031

Optimization of Culture Media for *Rhodococcus* sp., *Microbacterium* sp. and *Acinetobacter* sp. the Strains Used for Malodor Reduction

Su-Ok Kim¹, Xiao-Tian Quan¹, Mi-Young Won¹, Sang-Buem Cho², and Soo-Ki Kim^{1,2,*}

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²*Animal Resources and Research Center, Konkuk University*

B032

Characterization of Malodor Reduction Bacteria Isolated from Pig Manure and Soil

Xiao-tian Quan¹, Sang-Min Kim², and Soo-Ki Kim^{1,*}

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²*Yeosu-Gun Agricultural Technology Extension Center*

B033

Bioremediation of Crude Oil Contamination

Young-Jin Kim¹, Byung-Ho Kim¹, Sung-Wook Moon¹, Hee-Jae Hwang¹, Seong-Bum Kim², Suhk Hwan Park³, Geon-Hyoung Lee^{3,*}

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²*Chungnam National University,* ³*Kunsan National University*

B034

Anaerobic Degradation of Petroleum in Microcosms from Oil-contaminated Subsurface Soils

So-Jeong Kim and Sung-Keun Rhee*

Department of Microbiology, Chungbuk National University

B035

Effects of Genetically Modified Corn Plant on Indigenous Microbial Community in Rhizosphere Soil

Hwa-Young Lee and Hong-Gyu Song*
Kangwon National University

B036

Effects of Application of *Bacillus aryabhathi* on Wild Plant *Xanthium italicum* and Bacterial Community in Rhizosphere Soil

Nam-Mi Park and Hong-Gyu Song*
Kangwon National University

B037

Isolation and Characterization of Thermophilic Bacteria genus *Planifilum* from Compost of Hachigame Plan

Sung-Wook Park¹, Someya Takashi², and Kyung-Sook Whang^{1,3,*}
¹*Department of Microbial & Nano Material, Mokwon University,*
²*Faculty of Agriculture, Saga University, Japan,*
³*Institute of Microbial Ecology & Resources, Mokwon University*

B038

The Effect of Tidal Events on Water Quality of Taewha River, Ulsan, Korea

Eun Rak Sohn, Bora Lee, Jeong Im Park, and Jongseol Kim*
Department of Biological Sciences, University of Ulsan

B039

Bacterial Community Shift in Depth Profiles of Permafrost Soil in Alaska

Ok-Sun Kim¹, Hyemin Kim¹, Sungjin Nam¹, Dukki Han¹,
Bang Yong Lee², Jongsik Chun³, and Yoo Kyung Lee^{1,*}
¹*Division of Polar Life Sciences, Korea Polar Research Institute,*
²*Division of Polar Climate Research, Korea Polar Research Institute,*
³*School of Biological Sciences, Seoul National University*

B040

Changes of Soil-bacterial Community Structure According to Various Media Using DGGE Technique

Soojeong Yang and Jaisoo Kim*
Department of Life Science, Kyonggi University

B041

Comparative Genomics Reveals a Sea-Tidal Flat-Adapted Life Style and Pollutant-Metabolic Versatility of *Alteromonas* sp. SN2 through Extensive Horizontal Gene Transfer

Renukaradhya Math¹, Hyun Mi Jin¹, Yoonsoo Hahn¹,
Tae-Kwang Oh², and Che Ok Jeon^{1,*}
¹*Schools of Biological Sciences, Chung-Ang University,*
²*Korea Research Institute of Bioscience and Biotechnology*

B042**An Inconsistent Virus Detection in Environmental Water Sources**

Eung Seo Koo and Youg Seok Jeong*

*Department of Biology and Research Institute of Basic Sciences, Kyung Hee University***B043****Isolation and Molecular Characterization of Murine Norovirus**

Won Il Kim, Chang Hoon Yoo, and Yong Seok Jeong*

*Department of Biology, Kyung Hee University***B044****Survivability of MNV and MS2 on Either Wood or Stainless Steel Surfaces at Various Temperature and Relative Humidity**

Su Jung Kim, Jung Eun Lee, and Gwang Pyo Ko*

*Department of Environmental Health and Institute of Health and Environmental, Graduate School of Public Health, Seoul National University***B045****A Mouse Gut Microbiota Metagenome Screen Identifies Novel Genetic Elements for Microbial Biofilm Formation**

Mi Young Yoon and Sang Sun Yoon*

*Department of Microbiology and Immunology, Yonsei University College of Medicine***B046****Surveillance of Norovirus GI, GII, and Hepatitis A Virus by RT-PCR in Korean Aquatic Environments**

Sung-Ae Oh, Min-jeong Kim, Yu-jin Lee, Dong-Ye Min,

Sang-Min Choi, and Gyu-Cheol Lee*

*Water Analysis and Research Center, Institute for Water and Environment, K-Water***B047****Identification of Human and Animal Fecal Contamination after Rainfall in Han River, Korea**

Ji Young Kim, Heetae Lee, Jung Eun Lee, and GwangPyo Ko*

*Department of Environmental Health, Graduate School of Public Health, Seoul National University***B048****Biotransformation of Ciprofloxacin by *Aeromonas* spp. isolated from Wasted Water Treatment Plant**

Cung Nawl Thawng, Sung-Joon Park, and Chang-Jun Cha*

*Department of Biotechnology (BK21 Program), Chung-Ang University***B049****Characterization of the Archaeal Diversity and Community Structure of Solar Salts by Pyrosequencing analysis**

Hang-Yeon Weon, Jung-Bong Kim, Jeung-Im Bok, Chang-Muk Lee,

Yi-Seul Kim, In-Cheol Park, and Jaekyeong Song*

National Academy of Agricultural Science, Rural Development Administration

B050**Effects of Free-Air CO₂ Enrichment (FACE) and Elevated Water Temperature on Biological N₂ Fixation Activity and Microbial Biomass C in a Paddy Soil**

Miwa Matsushima^{1,*}, Xiaoyu Sun¹, Midori Yano², Takeshi Tokida³, Sakae Toyoda², Kentarou Hayashi³, and Toshihiro Hasegawa³

¹Graduate School of Horticulture, Chiba University, Japan, ²Tokyo Institute of Technology, Japan, ³National Institute for Agro-Environmental Sciences, Japan

B051**Microbial Biomass and CO₂ Flux in Tropical Peat Soil**

Hironori Arai¹, Abdul Hadi², Darung Untung³, Limin Suwido³, Ryusuke Hatano⁴, and Kazuyuki Inubushi^{1,*}

¹Graduate School of Horticulture, Chiba University, Japan, ²Lambung Mangkurat University, Japan, ³Faculty of Agriculture, Palangka Raya University, Japan, ⁴Graduate School of Agriculture, Hokkaido University, Japan

B052**HGT-Mediators Practicing Serial and Generalised Transduction**

Hiroshi X. Chiura¹, Branko Velimirov², and Kazuhiro Kogure^{1,*}

¹Atmosphere and Ocean Research Institute, The University of Tokyo, Japan, ²Centre of Anatomy and Cell Biology, Medical University of Vienna, Austria

B053**Bacterial Community Response to the Supply of Dimethylsulfoniopropionate (DMSP) in the Southern Ocean**

Ayako Okamoto¹, Yuya Tada¹, Nobue Kasamatsu-Takasawa², Ryo Kaneko¹, and Koji Hamasaki^{1,*}

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B054**Phylogenetic Position of Oceanic Nitrifiers Demonstrated by Enrichment Cultures**

Minoru Ijichi^{1,2,*} and Koji Hamasaki¹

¹Marine Microbiology, Department of Marine Ecosystem Dynamics, Division of Marine life Science, Atmosphere and Ocean Research Institute, The University of Tokyo, Japan, ²Graduate School of Agricultural and Life Science, Faculty of Agriculture, The University of Tokyo, Japan

B055**Distribution and Diversity of Haloarchaea in Marine Environments**

Kentaro Inoue and Kazuhiro Kogure*

Atmosphere and Ocean Research Institute, The University of Tokyo, Japan

B056**Hydrogen and Methane Production Mechanism and Countermeasure in Direct iron Mixing Method in VOC-Contaminated Urban Soil**

Mai Adachi and Kazuyuki Inubushi*

Graduate School of Horticulture, Chiba University, Japan

B057

Comparative Genome Analysis of *Pseudogulbenkiania* Strains, Denitrifying Bacteria in the Order Neisseriales

Satoshi Ishii^{1,2,*}, Kanako Tago^{2,3}, Kenshiro Oshima⁴, Tomoyasu Nishizawa², Shigeto Otsuka², Masahira Hattori⁴, and Keishi Senoo²

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B058

Nitrate Contamination and Denitrification in Groundwater of Mt. Fuji

Takeshi Kinoshita¹, Takuya Segawa¹, Chie Katsuyama³, Kazuyo Nagaosa², Rumi Sohrin^{1,2}, Yuichi Suwa³, and Kenji Kato^{1,2,*}

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B059

Springs and Groundwater in the Foot of Mt. Fuji -Aquatic Environment and Distribution of Prokaryotes-

Takuya Segawa¹, Takeshi Kinoshita¹, Mayu Shido², Kazuyo Nagaosa², Rumi Sohrin^{1,2}, Hiroyuki Kimura^{1,2}, and Kenji Kato^{1,2,*}

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B060

Development of a Cultural Method for the Isolation of Abyssal Bacteria

Jaeho Song and Kazuhiro Kogure*

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B061

Microbial Community Respiration of Ohmura Bay Sediment as Estimated by ETSA

Shotaro Suzuki^{1,*} and Minoru Wada²

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B062

Proteorhodopsin Is Functioning as the Light-Driven Proton Pump Among Marine Flavobacteria

Susumu Yoshizawa^{1,*}, Akira Kawanabe², Hideki Kandori², and Kazuhiro Kogure¹

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B063

Isolation and Physicochemical Characterization of Soluble Lignins Released from the Bark of the *Broussonetia papyrifera* by a White Rot Fungus

Chan-An Ku and Shiu-Mei Liu*

Institute of Marine Biology, National Taiwan Ocean University, Taiwan

B064**Isolation of UV-Resistant Crude Oil Degrading Microorganisms Form the Contaminated Shorelines**

Chia-Yuan Yen and Shiu-Mei Liu*

*Institute of Marine Biology, National Taiwan Ocean University, Taiwan***B065****Effects of Concentration and Structure on Laccase Catalysis of Non-ortho Substituted PCBs**

Chuan Hsin Ho and Shiu Mei Liu*

*Institute of Marine Biology, National Taiwan Ocean University, Taiwan***B066****Thermal Stability of Bacterial Catechol 2,3-Dioxygenases**Ting-Hsiang Lin^{1,2}, Yuan-Chang Hsu¹, and Shir-Ly Huang^{1,3,*}¹Department of Life Sciences, National Central University, Taiwan, ²Cellulosic Ethanol Program, Institute of Nuclear Energy Research, Taiwan, ³Center for Biotechnology and Biomedical Engineering, National Central University, Taiwan**B067****Antioxidant, Metal Chelating Abilities and Cytotoxicity of the Soluble Lignin Fractions from the Plant Lignocellulosic Materials**Fang-Yi Chu¹, Shiu-Mei Liu^{1,*}, and Zwe-Ling Kong²¹Institute of Marine Biology, National Taiwan Ocean University, Taiwan,²Department of Food Science, National Taiwan Ocean University, Taiwan**B068****Genome Sequence of the Anaerobic Thermophilic, and Hemicellulolytic Bacterium "Thermoanaerobacterium saccharolyticum NTOU1"**Jung Kuan¹, Shuichi Asakawa², Wen Shyong Tzou³, Shiu Mei Liu^{1,*}, and Shugo Watabe⁴¹Institute of Marine Biology, National Taiwan Ocean University, Taiwan, ²Laboratory of Aquatic Molecular Biology and Biotechnology, The University of Tokyo, Japan,³Institute of Bioscience and Biotechnology, National Taiwan Ocean University, Japan,⁴Laboratory of Marine Biochemistry, The University of Tokyo, Japan**B069****Screening, Isolation and Community of Degrading Bacteria from Herbivores Feces**Sheng-Hsin Chou^{1,3}, Yu-Zhen Su¹, Yi-Wen Lin¹,Gia-Luen Guo³, and Shir-Ly Huang^{1,2,*}¹Department of Life Sciences, National Central University, Taiwan, ²Center for

Biotechnology and Biomedical Engineering, National Central University, Taiwan,

³Cellulosic Ethanol Program, Institute of Nuclear Energy Research, Taiwan**B070****Identification and Genetic Characterization of 4-tert-Octylcatechol-Degrading Bacteria from Contaminated Environmental Microbial Communities**Nguyen Ngoc Tuan¹, Hsiao-Cheng Hsieh², and Shir-Ly Huang^{1,2,3,*}¹Institute of Systems Biology & Bioinformatics, National Central University, Taiwan,²Department of Life Sciences, National Central University, Taiwan, ³Center for

Biotechnology and Biomedical Engineering, National Central University, Taiwan

B071

Multiple Approaches to Investigate Microbial Community of Thermophilic Anaerobic Digestion for the Production of Biogas

Yi-Wen Lin¹, Nguyen Ngoc Tuan², Yi-Jia Chang¹, Kang-En Chuang¹,
Kuen-Sheng Wang³, Shir-Ly Huang^{1,2,4,*}

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³*Graduate Institute of Environmental Engineering,* ⁴*Center for Biotechnology and Biomedical Engineering, National Central University, Taiwan*

C001

Isolation and Characterization of a Gene Encoding Oxidation Reaction of *trans*-Anethole to *para*-Anisaldehyde in *Pseudomonas putida* JYR-1

Dongfei Han, Ji-Young Ryu, and Hor-Gil Hur*
Gwangju Institute of Science and Technology

C002

Polysaccharide Degradation Activity of Novel Marine Bacteria *Cellulophaga* sp. M-M6 and M-M24

Ki-Hoon Oh¹, Suyeon Park¹, Mi-Hwa Lee^{1,2}, Tae-Kwang Oh¹, and Jung-Hoon Yoon^{1,2,*}
¹*Industrial Biotech & Bioenergy Res. Center, Korea Research Institute of Bioscience and Biotechnology,* ²*University of Science and Technology*

C003

Identification of a Novel Compound 3-methyl-1-(2-methylphenyl)-1H-Pyrrolo[3,2-c]quinolin-6-ol Inhibiting Growth of Pathogenic Fungi

Ah-Ra Goh, Hyun-Gook Hwang, Yi-Na Kim, Da-Mi Cheon,
Sung-Eun Kim, and Sang Ki Choi*
Department of Biological Sciences, Sunchon National University

C004

Siderophore Studies: Biosynthesis, Overexpression and Purification of Bacillibactin Isolated from Gram-Positive Bacteria *Corynebacterium glutamicum* and *Bacillus subtilis*

Sanggoo Kim*
Korea Basic Science Institute, Seoul Center

C005

Synergistic Effects Between Silibinin and Antibiotics on Methicillin-Resistant *Staphylococcus aureus* Isolated from Clinical Specimens

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C006

Antibacterial Activity of Lavender Oil and Some of Its Major Compounds against Oral Bacteria

Kyeung-Ae Jang and Hye-Young Kim*
Department of Dental Hygiene, College of Natural Sciences, Dongeui University

C007

Purification of New Anti-Yeast Substance Originated from *Rahnella aquatilis* Strain AY2000 and Its Properties

Hae Ji Park¹, Min Jung Kang¹, Jong Hwan Lee², and Kwang Hyeon Kim^{1,*}
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C008

Development of Economic Medium Composition for Cell Growth of *B. subtilis* and *B. licheniformis* as Direct Fed Microbes

Dong Woon Kim¹, Young Hwa Kim¹, Hyun Jung Jung¹, Sung Dae Lee¹, Sang Ho Kim¹, Kyu Ho Cho¹, Sang Buem Cho², Soo Ki Kim², and In Cheul Kim^{1,*}

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C009

Biphenyl Hydroxylation Enhanced by an Engineered *o*-Xylene Dioxygenase from *Rhodococcus* sp. Strain DK17

Miyoun Yoo¹, Dockyu Kim², Beom Sik Kang³, and Eungbin Kim^{1,*}

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C010

Capsaicin Degradation in *Bacillus licheniformis* SK1233

Sang-Buem Cho¹, Chi-Ho Lee², and Soo-Ki Kim^{1,3,*}

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C011

Construction of Plasmids for the Anticancer Molecules Delivery Via the Salmonella Type III Secretion System

Jin Seok Kim, Jung Im Jang, Jeong Seon Eom, Dae Woo Kang,

Chang Heon Oh, and Yong Keun Park^{1,*}

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C012

Effects of Oxidative Agent and Ricin A Isolated from *Ricinus communis* on the Binding Inhibition of Hepatitis A Virus to Oyster Digestive Tissues

Sang-Mu Ko¹, Jong-Oh Kim¹, Myung-Joo Oh¹, Joseph Kwon², and Duwoon Kim^{3,*}

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C013

Screening of Genomic Fragment Encoding Alginate Lyase Genes Using a Metagenomic Fosmid Library Constructed from Wetland Microflora

Ye-Seul Hwang¹, Su-Jung Sim¹, KeunSik Baik², SeongChan Park², HanNa Choe², ChiNam Seong², Tai-Sun Shin³, HeeChul Woo⁴, and Duwoon Kim^{1,*}

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³Department of Food Science and Nutrition, Chonnam National University,

⁴Department of Chemical Engineering, Pukyong National University

C014

Production of Ethanol from Enzymatically Hydrolyzed Citrus Peel Waste by *Sacchromyces cerevisiae*

Byoung-Jun Yoon¹, Chang Suk Kim³, and Jae-Hoon Kim^{1,2,*}

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²*Faculty of Biotechnology, Jeju National University,* ³*Jejutechnopark*

C015

Effect of Modified Glucose Catabolism on Xanthan Production in *Xanthomonas oryzae* pv. *Oryzae*

Se-Gul Jang and Jae-Yong Cho*

Department of Pharmaceutical Engineering, Sangji University

C016

Purification and Characterization of a Lipopeptide Produced by *Pseudomonas* sp. NO4

Go-Woo Choi and Youn-Tae Chi*

School of Biological Sciences and Biothecnology, Chonnam National University

C017

The Application of Bioluminescent ATP Detection System for Antibacterial Test of Herbal Extract

Min Gu Lee, Ji Ho Park, Ji Whi Choi, Sang Hyek Kim, Dong Min Yoo, Sung Gu Lee, Heui Jong Yu, and Ki Ho Kim*

Research and Development Center, Bioland Ltd.

C018

Construction of a Mutant Library of *Saccharomyces Cerevisiae* Tyrosyl-tRNA Synthetase Gene for Selection of a Mutant Synthetase that Incorporates an Unnatural Amino Acid

Dawood Salim^{1,2} and Jungchan Park^{1,2,*}

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²*Protein Research Center for Bioindustry, HUFSS*

C019

Cloning and Expression of a Gene Encoding Endoglucanase That Belongs to Glycosyl Hydrolase Family 45 from the Brown-Rot Basidiomycete *Fomitopsis palustris*

Ju-Hee Cha and Chang-Jun Cha*

Microbial Biotechnology Lab, Department of Biotechnology (BK21-program), Chung-Ang University

D 면역·병원미생물학 / Immunology and Microbial Pathogenesis

D001

Detection of *Aggregatibacter actinomycetemcomitans* by Quantitative Real-time PCR

Jae-Yoon Park¹ and Joong-Ki Kook^{2,*}

¹*Department of Biochemistry and Molecular Biology, Medical School, Chosun University,* ²*Department of Oral Biochemistry, School of Dentistry, Chosun University*

D002

Quantitative Detection of *Porphyromonas gingivalis* by the Real-time PCR

Jae-Yoon Park¹ and Joong-Ki Kook^{2,*}

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D003

Bacterial Model System for Screening and Determining Optimal Concentration of Anti-caries Natural Extracts

Jae-Yoon Park¹ and Joong-Ki Kook^{2,*}

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D004

Antimicrobial Effect of Triterpenoid Compounds Against Mutans Streptococci Isolated from Koreans

Joong-Ki Kook^{1,*} and Jae-Yoon Park²

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D005

Hepatitis B virus X (HBX) Protein Inhibits the Expression of SIRT1 Deacetylase, Leading to Up-regulation of Survivin for the Survival of Hepatocellular Carcinoma Cells

Ratakorn Srisuttee and Young-Hwa Chung*

Department of Cogno-Mechatronics Engineering, Pusan National University

D006

Antibiotic Resistance of 226 Korean Isolates of Oral Streptococci against Tetracycline

Yeon-Hee Kim and Si Young Lee*

Department of Microbiology and Immunology, College of Dentistry, Gangneung-Wonju National University

D007

Erythromycin Resistance of 224 Korean Isolates of Oral Streptococci

Sang-Mi Kim and Si Young Lee*

*Department of Microbiology and Immunology, College of Dentistry,
Gangneung-Wonju National University*

D008

Whole Transcriptome Sequencing Reveals How Deficiency of Iron Uptake Influences on Fluconazole Sensitivity in *Cryptococcus neoformans*.

Jeongmi Kim¹, Yong-Joon Cho², Kyunghwan Han¹, Jongsik Chun², James W. Kronstad³, and Won Hee Jung^{1,*}

¹*Department of Biotechnology, Chung-Ang University,* ²*School of Biological Sciences & Institute of Bioinformatics, Seoul National University,* ³*Michael Smith Laboratories, University of British Columbia, Canada*

D009

Identification and Characterization of *Cft3*, the Third Iron Permease in *Cryptococcus neoformans*

Kyunghwan Han¹, Jaehyuk Choi², James W. Kronstad², and Won Hee Jung^{1,*}

¹*Department of Biotechnology, Chung-Ang University,* ²*Michael Smith Laboratories, University of British Columbia, Canada*

D010

A Mixed Infection with *Myxobolus episquamalis* and *Myxobolus* sp. in Wild Mullet (*Mugil cephalus*)

Wi-Sik Kim¹, Min-Seok Jang², Jeong-Ho Kim³, and Myung-Joo Oh^{2,*}

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D011

Distribution of *Aeromonas* sp. and Development of Multiplex PCR for Identification of *Aeromonas* sp. Isolated from Farm-cultured Eels in Korea

Hye-Jin Lee¹, Eun-Hye Ahn¹, Yu-Jeong Choi¹, Hwan Jang¹, Gee-Wook Shin², Sung-Won Lee², Jun-Hun Kwon¹, and Seong-Joon Joh^{1,*}

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D012

TOR1 Kinase Mediates a Cross-Talk Between Morphogenesis and Ribosome Biosynthesis in *Candida albicans*

Se Woong Kim¹, Yoo Jin Joo¹, Jae Yung Lee², and Joon Kim^{1,*}

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D013**Phylogenetic Analysis of Hemagglutinin Gene of Canine Distemper Virus Isolates from Raccoons and Dogs in South Korea**

Hye-Suk Seo¹, Eun-Ju Kim², Se-Yeoun Cha¹, Min Kang¹,
Hae-Beom Lee³, and Hyung-Kwan Jang^{1,*}

¹*Department of Infectious Diseases & Avian Diseases, College of Veterinary Medicine and Korea Zoonosis Research Institute, Chonbuk National University,* ²*Department of Exotic Animal and Wild Animal Medicine, College of Veterinary Medicine, Chonbuk National University,* ³*Department of Veterinary Surgery and Wild Animal Medicine, College of Veterinary Medicine, Chonbuk National University*

D014**Comparison of the Bioactivity for Pertussis Toxin by the Histamine Sensitisation Test and in Vitro Assays**

Hokyung Oh, Byoung Guk Kim, Hyunchul Song, Seokkee Chang,
Hyeon Guk Kim, Soyoun Eum, Seung Hwa Hong, Halim Lee,
Hyangin Jin, Seonlim Choi, Daegeun Park, and Jeewon Joung*

National Center for Lot Release, National Institute of Food & Drug Safety Evaluation, Korea Food & Drug Administration

D015**Degradation of AIMP1/p43 Induced by Hepatitis C Virus E2 Leads to Upregulation of TGF- β Signaling and Increase in Surface Expression of gp96**

Min Soo Kim and Heejoon Myung*

Department of Bioscience and Biotechnology, Hankuk University of Foreign Studies

D016**Production of Infectious HCV Particles by Transcomplementation Using Non-Structural Protein 5A**

Tae Kyu Lim, Jong-Ho Lee, and Heejoon Myung*

Department of Bioscience and Biotechnology, Hankuk University of Foreign Studies

D017**Differential Gene Expressions in the Spatial Structure of *Pseudomonas aeruginosa* Biofilm**

Su-Jin Im, Soo-Kyoung Kim, Ha-Young Park, DooHwan Yeom, and Joon-Hee Lee*

Pusan National University

D018**Biofilm Control by Inducing Dispersion in *Pseudomonas aeruginosa***

Soo-Kyoung Kim, Su-Jin Im, DooHwan Yeom, and Joon-Hee Lee*

Pusan National University

D019**Development of Oligonucleotide Microarray for Diagnosis of Porcine Epidemic Diarrhea Virus**

So-Jeong Kim, Man-Young Jung, Jong-Geol Kim, and Sung-Keun Rhee*

Department of Microbiology, Chungbuk National University

D020**Establishment of Multiple Displacement Amplification (MDA) Condition**

Jong-Geol Kim, Man-Young Jung, So-Jeong Kim, and Sung-Keun Rhee*

*Department of Microbiology, Chungbuk National University***D021****Inhibition Effect and Action Mechanism of Biosurfactant Produced from *Pseudomonas* sp. Against *Propionibacterium acnes***

Ga-In Park and Youn-Tae Chi*

*School of Biological Sciences and Biothecnology, Chonnam National University***D022****Structural Analysis and Antibacterial Activities of Phytoncide Against Oral Microorganisms**Ji-Young Lee¹, A-Ra Kyoung¹, In-Kyoung Lee², Bong-Sik Yoon², and Youn-Tae Chi^{1,*}¹*School of Biological Sciences and Biothecnology, Chonnam National University,*²*College of Environmental & Bioresource Sciences, Chonbuk National University***D023*****Bacillus Thuringiensis* Isolated From Cow Milk As A Probiotic To Prevent Invasive Infections In Animals**

Sang-Sang Park, Sang-Yoon Choi, Sunkneung Pyo, and Dong-Kwon Rhee*

*School of Pharmacy, SungKyunkwan University***D024****Detection and Molecular Characterization of Porcine Orthoreoviruses Type 3 in South Korea**Hyung-Jun Kwon¹, Ha-Hyun Kim¹, Hyun-Jeong Kim², Woo Song Lee¹,Kyoung-Oh Cho², and Su-Jin Park^{1,*}¹*Eco-Friendly Biomaterial Research Center and AI Control Material Research Center,**Korea Research Institute of Bioscience and Biotechnology, ²Biotherapy Human Resources Center, College of Veterinary Medicine, Chonnam National University***D025****Analyzing the Role of *Bartonella henselae* as a Pathogen Causing Inflammatory Responses**Bo Kyoung Bae¹, Tae Ho Kim², Ye Rin Coh², Jin Ok Ahn²,Woo Sung Jung², Hwa Young Youn^{1,2,*}, and Hee Woo Lee^{1,2,*}¹*KRF Priority Zoonotic Disease Research Institute, College of Veterinary Medicine,**Seoul National University, ²Department of Veterinary Internal Medicine, College of Veterinary Medicine, Seoul National University***D026****Regulation of Transcription Initiation from Ler(LEE1)Promoters by Ler in Enteropathogenic *Escherichia coli* (EPEC)**

Keon-Hee Kim, Hyun -Ju Kim, and Hyon E. Choy*

Department of Microbiology, Chonnam National University Medical School

D027

Comparison of the Vaginal Microbiota with and without HPV Infection among Korean Twins

Jung Eun Lee¹, Jooheon Sung², Heetae Lee¹, Sunghye Lee¹, and GwangPyo Ko^{1,*}

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D028

Suppression Influence of Norovirus Replication by Vitamin A

YoungBin Park¹, You-Hee Cho², and GwangPyo Ko^{1,3,*}

¹*Department of Environmental Health and Institute of Health and Environment, School of Public Health, Seoul National University,* ²*College of Pharmacy, CHA University,* ³*Institute of Microbiology, School of Biological Sciences, Seoul National University*

D029

Investigation of Small Interfering RNAs Inhibiting Norovirus Replication

Heetae Lee and GwangPyo Ko^{*}

Department of Environmental Health and Institute of Health and Environment, School of Public Health, Seoul National University

D030

Vitamin B12 Corrects Anaerobiosis-induced Faulty Growth of *Pseudomonas aeruginosa*

Junhyeok Go, Kang-Mu Lee, Mi Young Yoon, Yongjin Park, and Sang Sun Yoon^{*}

Department of Microbiology and Immunology, Yonsei University College of Medicine

D031

Orally Delivered miRNA Targeting TLR8 by *Salmonella* Suppresses Systemic inflammation

Eun Jae Kim, Won Suck Yoon, and Yong Keun Park^{*}

School of Life Sciences and Biotechnology, Korea University

D032

***Bacillus anthracis* Protective Antigen Domain 4 as a Candidate DNA Vaccine Antigen Against**

Yeon Soo Kim¹, Na Young Kim¹, Kang Rok Han¹, Sun Young Cho¹, Gyeong Haeng Hur², Jee Cheon Kim², Jai Myung Yang¹, and Sung Ho Shin^{1,*}

¹*Department of Life Science, Sogang University,* ²*Department of Veterinary Public Health, College of Veterinary Medicine, Seoul National University*

D033

Codon-Optimized HCR Gene of *Clostridium Botulinum* Neurotoxin Serotype E is an Effective Botulism DNA Vaccine Candidate

Hyo Rim Cho¹, Na Young Kim¹, Chun Il Kang¹, Gyeong Haeng Hur², Sung Ho Shin¹, and Jai Myung Yang^{1,*}

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D034

DNA Vaccine Using the Modified L1 of Vaccinia Virus

Sol Mi Wi, Na Young Kim, Gyeong suk Kang, Jin Ah Lee,
Sung Ho Shin, and Jai Myung Yang*

Department of Life Science, Sogang University

D035

Immune Suppression in Cultured Host Cells by a Unique Metabolite from *Vibrio Cholerae* O1 El Tor Biotype and Its Involvement with *hlyA* Regulation

Wasimul Bari and Sang Sun Yoon*

Department of Microbiology and Immunology, Yonsei University College of Medicine

D036

Screening and Identification of Lactic Acid Bacteria Strains Having Inhibitory Effect on Human Papillomavirus Infection

Il-Han Lee¹, Seung-Pyo Hong¹, Chul-Joong Kim^{1,2},
Haryoung Poo³, and Moon-Hee Sung^{1,4,*}

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D037

Recombinant *S. typhimurium* Expressing HPV16 E7 Gene Induced Tumor Suppression and Immune Responses in Cervical Tumor-bearing Mice

Ji Hyeon Choi, Won Suck Yoon, and Yong Keun Park*

School of Life Science and Biotechnology, Korea University

E 생리·생화학 / Physiology and Biochemistry

E001

Sugar Catabolism of *Lynbacter sarcodonius* MK1 Strain Isolated from Neungee Mushroom

Eunju Kim and Young Nam Lee*
Chungbuk National University

E002

Translation Initiation Factor eIF5B is a Target for a New Family of Antifungals

Yi-Na Kim, Hyun-Gook Hwang, Ah-Ra Goh, Eun-Sung Kim, Gun-Woong Park, and Sang Ki Choi*
Department of Biological Sciences, Suncheon National University

E003

The Cellular Roles of *Vibrio vulnificus* AhpC2, a Novel Bacterial Peroxiredoxin(Prx)

Yeji Bang, Suyeon Kim, So-Yeon Kil, and Sang Ho Choi*
National Research Laboratory of Molecular Microbiology and Toxicology, Department of Agricultural Biotechnology, Seoul National University

E004

Regulation of *Vibrio vulnificus nan* Cluster for Sialic Acid Utilization by NanR, CRP and a Catabolic Intermediate, N-Acetylmannosamine-6-phosphate

Byoung Sik Kim, Dukyun Kim, Youmi Jo, and Sang Ho Choi*
National Research Laboratory of Molecular Microbiology and Toxicology, Department of Agricultural Biotechnology, Seoul National University

E005

HAC-1 Plays an Important Role in the Ethanol Tolerance of Yeast

Xian-Yong Liu, Jun Tao, and Cheng-Gang Zou*
Laboratory for Conservation and Utilization of Bio-Resources & Key Laboratory for Microbial Resources of the Ministry of Education, Yunnan University, China

E006

Bidirectional Regulation between TORC1 and Autophagy in *Saccharomyces cerevisiae*

Chun-Shik Shin and Won-Ki Huh*
School of Biological Sciences, Seoul National University

E007

A Comprehensive *In Vivo* Analysis of Ras Interactome in *Saccharomyces cerevisiae* Using Bimolecular Fluorescence Complementation Assay

Dae-Gwan Yi, Eun-Bin Yang, and Won-Ki Huh*
School of Biological Sciences, and Research Center for Functional Cellulomics, Seoul National University

E008**Characterization of Novel Homogentisate-1,2 Dioxygenase Involved in Aromatic Compound Degradation in *Comamonas* sp. P19**

Jae Eun Ju, Byoung Yul Soh, Kui-Jae Lee, and Jong-Chan Chae*

*Division of Biotechnology, College of Environmental & Bioresource Sciences, Chonbuk National University***E009****Cellular Changes of *Escherichia coli* Exposed to *Rosa hybrida* Flower Extracts**

Hyun Baek, Hye-Ran Ahn, and Kye-Heon Oh*

*Department of Biotechnology, Soonchunhyang University***E010****Characterization and Antimicrobial Effects of *Lactobacillus plantarum* UK-3 Isolated from Adult Vagina**

Hye-Ran Ahn, Hyun Baek, Jong-Hyun Kim, and Kye-Heon Oh*

*Department of Biotechnology, Soonchunhyang University***E011****Crystal Structure of Lon Protease: Molecular Architecture of Gated Entry to A Sequestered Degradation Chamber**

Young Jun An, Chang-Sook Jeong, Sung Gyun Kang, and Sun-Shin Cha*

*Marine Biotechnology Research Center, Korea Ocean Research and Development Institute***E012****Structural Basis for The Specialization of Nur, A Nickel-Specific Fur Homologue, in Metal Sensing and DNA Recognition**Young Jun An¹, Bo-Eun Ahn², Min-Kyu Kim¹, Jung-Hye Roe², and Sun-Shin Cha^{1,*}*¹Marine Biotechnology Research Center, Korea Ocean Research and Development Institute, ²School of Biological Sciences, Seoul National University***E013****Functional Implications of an Intermeshing Cogwheel-Like Interaction between TolC and MacA in the Action of Macrolide-Specific Efflux Pump MacAB-TolC***Yongbin Xu¹, Saemee Song², Se-Hoon Sim², Kangseok Lee², and Nam-Chul Ha^{1,*}*¹Department of Manufacturing Pharmacy, College of Pharmacy and Research Institute for Drug Development, Pusan National University, ²Department of Life Science (BK21 program), Research Center for Biomolecules and Biosystems, Chung-Ang University***E014****Transcriptional Regulation of *yqhD* Encoding Aldehyde Reductase of *Escherichia coli***

Junghoon Lee and Chankyu Park*

*Department of Biological Science, Korea Advanced Institute of Science and Technology***E015****Identification of Global Proteins Resistant to Heat and Proteolysis**

Dong-Woo Lee, Yong-Jik Lee, and Jae-Gu Pan*

Korea Research Institute of Bioscience and Biotechnology

F 미생물유전학 / Genetics

F001

Identification of the Genes Induced in *Mycobacterium smegmatis* under Hypoxic Conditions in a DevSR-Independent Way

Eun-Young Baek and Jeong-Il Oh*

Department of Microbiology, Pusan National University

F002

Expression of the *ahpC* Gene Encoding Alkyl Hydroperoxide Reductase in *Mycobacterium smegmatis*

Na-On Lee and Jeong-Il Oh*

Department of Microbiology, Pusan National University

F003

Human-specific Insertion of Human Endogenous Retrovirus K (HERV-K) Generate Human Genomic Variation

Wonseok Shin and Kyudong Han*

Department of Nanobiomedical Science & WCU Research Center, Dankook University

F004

Transcriptional Regulators for Bio-Hydrogen Production in *Thermococcus onnurineus* NA1

Seo-Yeon Kim and Sung-Jae Lee*

Department of Biology, College of Science, Kyung Hee University

F005

NsiI Regulates the Silencing of Ribosomal DNA in *Saccharomyces cerevisiae*

Cheol Woong Ha, Min-Kyung Sung, and Won-Ki Huh*

School of Biological Sciences and Research Center for Functional Cellulomics, Institute of Microbiology, Seoul National University

F006

Genomic and Bioinformatic Analysis of Thiol-oxidative Stress Response Regulated by SigR Orthologues in Actinomycetes

Ji Sun Yoo¹, Minsik Kim¹, Yann S. Dufour², Yoobok Cho¹,
Haemin Kim¹, Timothy J. Donohue², and Junghye Roe^{1,*}

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F007

Genome-Wide *In Vivo* Analysis of TORC1 Interactome in *Saccharomyces cerevisiae*

Yeon Ji Chang¹, Chun-Shik Shin¹, and Won-Ki Huh^{1,2,*}

¹School of Biological Sciences, and Research Center for Functional Cellulomics, Seoul National University, ²Institute of Microbiology, Seoul National University

F008**Purification and Characterization of Protease, Cellulase, Lipase from *Bacillus amyloliquefaciens* Isolated from larvae of *Hermetia illucens* (BSF)**

Hyunbum Jeon¹, Seongeun Song¹, Kwan ho Park², Sang-Beom Lee²,
Youngcheol Choi², and Sung-Jae Lee^{1,*}

¹Department of Biology, Kyung Hee University, ²Insect Resources Division,
Department of Agricultural Biology, National Academy of Agricultural Science,
Rural Development Administration

F009**Distribution of the TrmB Family of Global Sugar-sensing Transcriptional Regulators in Prokaryote Genomes**

Soyoung Park, Younyeop Lee, and Sung-Jae Lee*

Department of Biology, Kyung Hee University

F010**Regulation of Ribosomal Protein mRNA Stability in *Saccharomyces cerevisiae***

Bo-Ram Cho¹ and Ji-Sook Hahn^{1,2,*}

¹Interdisciplinary Program for Bioengineering, Seoul National University,

²School of Chemical and Biological Engineering, Seoul National University

F011**Regulation Mechanism of *ARO9* and *ARO10* via Aro80 and TOR Pathway in *Saccharomyces cerevisiae***

Kyusung Lee and Ji-Sook Hahn*

School of Chemical and Biological Engineering, Seoul National University

F012**Regulation of Yeast Yak1 Kinase by PKA and Autophosphorylation-dependent 14-3-3 Binding**

Peter Lee¹, Sang-Min Paik², Chun-Shik Shin³, Won-Ki Huh³, and Ji-Sook Hahn^{1,2,*}

¹School of Chemical and Biological Engineering, Seoul National University,

²Interdisciplinary Program for Bioengineering, Seoul National University,

³School of Biological Sciences, Seoul National University

F013**Genome Sequence of Strain TW25, a Novel Member of the Genus *Ornithinibacillus* in the Family *Bacillaceae***

Tae Woong Whon¹, Seong Woon Roh¹, Na-Ri Shin¹,
Min-Soo Kim¹, Young-Ok Kim², and Jin-Woo Bae^{1,*}

¹Department of Life and Nanopharmaceutical Sciences and Department of Biology,
Kyung Hee University, ²Biotechnology Research Division, National Fisheries Research
and Development Institute (NFRDI)

F014**IscR is a Novel Global Regulator Essential for Survival and Pathogenesis of *Vibrio vulnificus***

Jong-Gyu Lim, Jin Hwan Park, and Sang Ho Choi*

Lational Research Laboratory of Molecular Microbiology and Toxicology,
Department of Agricultural Biotechnology, Seoul National University

F015

Glyoxal Detoxification by Aldo-keto Reductases in *E. coli*

Changhan Lee, Insook Kim, and Chankyu Park*

Department of Biological Science, Korea Advanced Institute of Science and Technology

F016

Genomic Identification of Putative Direct Target Genes of the Mating-type (*MAT*) Genes in *Gibberella zeae*

Hee-Kyoung Kim, Eun Ji Cho, and Sung-Hwan Yun*

Department of Medical Biotechnology, Soonchunhyang University

F017

Sumoylation of Nup184, A Nucleoporin in Fission *Schizosaccharomyces pombe*

Airee Chai and Jin Ho Yoon*

School of Life Science and Chemistry, Sungshin Women's University

F018

Antibacterial Activity of Lactoferricin Peptide Derived from the Antimicrobial α -Helix of Human Lactoferrin in *E. coli*

Ga Eun Song^{1,2}, Jea Hyung Jo^{1,2}, and Hyune Hwan Lee^{1,2,*}

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²*Protein Research Center for Bio-industry*

F019

Full Length Genomic Analysis of Emerging G9P[23] and G9P[7] Strains Isolated from Pigs in South Korea

Ha-Hyun Kim¹, Hyung-Jun Kwon¹, Hyun-Jeong Kim², Jun-Gyu Park², Woo Song Lee¹, Mun-Il Kang², Su-Jin Park¹, and Kyoung-Oh Cho^{2,*}

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F020

Analysis of Gene Cluster for Plecomacrolide Antibiotic Biosynthesis in *Kitasatospora cheerisanensis* KCTC2395

Jae Yoon Hwang, Bo Geum Kim, Hyo Sun Kim, and Doo Hyun Nam*

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F021

Screening and Purification of Antibiotic Compound from *Pseudomonas* sp.

Ji-Young Nam^{1,2}, Youn-Tae Chi², and Jin Kyu Kim^{1,*}

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²*School of Biological Sciences and Technology, Chonnam National University*

F022

Isolation and Characterization of Hypoxia-Sensitive Mutant HUV6 in *Aspergillus nidulans*

Chinbayer Bat-Ochir, Oyuntugs Baljinnyam, and Suhn-Kee Chae*

Department of Biochemistry and Center for Fungal Pathogenesis, Paichai University

F023

The MkkA MAP Kinase Kinase Regulates Conidiophore Morphogenesis, Heterokaryon and Cleistothecium Formation in *Aspergillus nidulans*

Sang-Cheol Jun¹, Ji-Young Kang², Keon-Sang Chae²,
Dong-Min Han³, and Kwang-Yeop Jahng^{2*}

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F024

Putative Biosynthetic Pathway of Bafilomycin in *Kitasatospora cheerisanensis* KCTC2395

Bo Geum Kim, Jae Yoon Hwang, Soo Hee Kim, and Doo Hyun Nam*
College of Pharmacy, Yeungnam University

F025

Identification and Biochemical Characterization of a Protein with Affinity to Metal ion from *Streptomyces griseus*

Xue-Mei Jin, Da Yeon Park, Ju-Hyeon Lim, Won-Jae Chi, and Soon-Kwang Hong*
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F026

Identification, Purification and Characterization of the β -galactosidase from *Victivallis vadense* ATCC BAA-548

Yuangaa Temuujin, Won-Jae Chi, and Soon-Kwang Hong*
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F027

Isolation of Synthetic Lethal Mutations in the *spnab2* Mutant that is involved in mRNA Export in Fission Yeast

Yun Sun Park, Hye-sung Jung, and Jin Ho Yoon*
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F028

FljB Repression Mediated by Acyl Carrier Protein IacP in *Salmonella typhimurium*

Jeong Seon Eom, Jin Seok Kim, Jung Im Jang, So Young Yoo, and Yong Keun Park*
School of Life Science and Biotechnology, Korea University

F029

C-terminal Region of SipB was Important to be Secreted Though SPI-1 T3SS and its C-Terminus Interaction with InvE Protein in *salmonella typhimurium*

Dae Woo Kang, Jin Seok Kim, Jeong Seon Eom, and Yong Keun Park*
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G001

Characterization of *p*-hydroxybenzoate Hydroxylase and *m*-hydroxybenzoate Hydroxylase from *Chromohalobacter* sp. HS-2

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G002

Functional Analysis of Simultaneously Synthesized Peptide and Gold Nanoparticles Hybrid Spheres and Their Application Approaches

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G003

The 5'UTR Analysis of Human-Specific LINE-1

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G004

Inducible Nitric Oxide Synthase and Cyclooxygenase-2 Inhibitor Isolated from Newly Screened *Streptomyces* Strain

Yun Hee Choi, Da Jeong Park, and Jin Cheol Yoo*

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G005

Purification and Immuno-stimulatory Activity of a Polysaccharide from *Streptomyces* sp. CS468

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G006

Isolation of a Novel *Lactobacillus* Strain Secreting Broad-spectrum of Antibacterial Compound

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G007

Purification and Characterization of a Novel Peptide Antibiotic from Newly Isolated *Bacillus* sp. CS61

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G008

Isolation and Characterization of a Compound Effective Against Vancomycin-resistant *Enterococci* (VRE) and *Staphylococcus aureus* (VRSA) from *Bacillus subtilis* CS19

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G009

Beneficial Effect of an Antimicrobial and Anti-inflammatory Agent on 12-O-tetradecanoylphorbol Acetate Induced Ear Edema in Mice

Seung Sik Cho and Jin Cheol Yoo*

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G010

Protective Effect of Compound C3, Produced by *Streptomyces* sp. CS392, in Dextran Sodium Sulfate Induced Mice Colitis

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G011

Purification, Biochemical Properties and *In Vitro* Fibrinolytic Activity of an Extracellular Protease Secreted by a *Streptomyces* Strain

Jaya Ram Simkhada, Poonam Mander, and Jin Cheol Yoo*

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G012

***In Vivo* Efficacy of a New Low Molecular Weight Fibrinolytic Enzyme from Bacteria**

Jaya Ram Simkhada and Jin Cheol Yoo*

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G013

Biological Production of 1,4-Butanediol in *Escherichia coli*

Sol Choi, Jeong Wook Lee, and Sang Yup Lee*

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G014

Screening and Characterization for Cold-Active Protease-Producing Bacteria from Bikal Lake

Ha Ju Park, Dockyu Kim, Yung Mi Lee, Pil Sung Kang,

Heeyong Park, and Joung Han Yim*

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G015

Screening and Identification of Chitinase Genes from Arctic Marine Bacterium *Pseudoalteromonas issachenkonii* KOPRI 22718

Dockyu Kim, Ha Ju Park, Tai Kyoung Kim, Sung Jin Kim, and Joung Han Yim*

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G016**Enhanced Isopropanol-Butanol-Ethanol Production Using a *buk*-deficient *Clostridium acetobutylicum* Strain**

Joungmin Lee, Yu-Sin Jang, and Sang Yup Lee*

*Korea Advanced Institute of Science and Technology***G017****Fermentation of Glycerol to Succinic Acid by Engineered Strains of *Mannheimia succiniciproducens***

Jongho Yi, Yong Jae Jeon, Jeong Wook Lee, and Sang Yup Lee*

*Korea Advanced Institute of Science and Technology***G018****Framework for Investigating the Effect of a Specific Perturbation on *E. coli* Metabolism Using Network Modularization and Bayesian Network Analysis**

Hyun Uk Kim, Tae Yong Kim, and Sang Yup Lee*

*Korea Advanced Institute of Science and Technology***G019****Genome-Scale Reconstruction and Analysis of the Metabolic Network in *Zymomonas mobilis* ZM4 for Overproducing Ethanol and Succinic acid**

Kyung Yun Lee, Jong Myoung Park, Hongseok Yun, and Sang Yup Lee*

*Korea Advanced Institute of Science and Technology***G020****Improved Prediction of Metabolic Fluxes with Genomic Context and Flux-Converging Pattern Analyses**

Jong Myoung Park, Tae Yong Kim, and Sang Yup Lee*

*Korea Advanced Institute of Science and Technology***G021****Metabolic Evolution of *Mannheimia succiniciproducens* for the Succinate Production and its Proteomic Characteristics**Jeong Wook Lee¹, Sang Yup Lee¹, and Jong Shin Yoo^{2,*}¹ *Korea Advanced Institute of Science and Technology*, ² *Korea Basic Science Institute***G022****Protein Interaction Network of Yeast Nonsense-mediated mRNA Decay Mutant**Kyu Kwang Kim¹, Jae Sung Hwang², and Han Bok Kim^{2,*}¹ *Korea Advanced Institute of Science and Technology*,² *Department of Biotechnology, Hoseo University***G023****IC-RT-PCR could detect *Rice Stripe Necrosis Virus* in rice**

Dong-Won Jeong, Young Chul Kwon, and Hyun-Sook Lee*

Department of Microbiology, Gyeongsang National University

G024**Metagenomic analysis of M and S proteins of porcine epidemic diarrhea virus for elucidation of genetic diversity**

Man-Young Jung and Sung-Keun Rhee*

*Department of Microbiology, Chungbuk National University***G025****Enrichment and Molecular analysis of Cellulose-Degrading Microbial Consortia Isolated from Empty Palm Fruit Bruch Fiber for Ethanol Production**Seonghun Kim¹, Sang-Yoon Kim², Doo-Byoung Oh²,Ohsuk Kwon², and Chul Ho Kim^{1,*}*¹Microbe-based Fusion Technology Research Center, Jeonbuk Branch Institute, Korea Research Institute of Bioscience and Biotechnology, ²Integrative Omics Research Center, Korea Research Institute of Bioscience and Biotechnology***G026****Chiral Separation of Catechin by Capillary Electrophoresis Using α -cyclophoro-octadecaoses Isolated from *Rhodobacter sphaeroides* as Chiral Selectors**

Chanho Kwon and Seunho Jung*

*Department of Bioscience and Biotechnology, Bio/Molecular Informatics Center, Konkuk University***G027****Solubility Enhancement of Naproxen Based on the Cyclophoraose-induced Complexation**

Chanho Kwon, Daham Jeong, and Seunho Jung*

*Department of Bioscience and Biotechnology, Bio/Molecular Informatics Center, Konkuk University***G028****Study on the Complexation of Salicylic acid with Microbial Succinoglycan Octasaccharides**

Jae Min Choi, Hwanhee Kim, and Seunho Jung*

*Department of Bioscience and Biotechnology, Konkuk University***G029****Synthesis and Characterization of Novel Acylated Cyclophoraose**

Yongun Kwon, Yukyoung Jeon, and Seunho Jung*

*Department of Bioscience and Biotechnology, Konkuk University***G030****Directed Evolution of CotA Laccase Displayed on *Bacillus subtilis* Spores**

Jiyoung Seo, Dong-Woo Lee, Soo-Keun Choi, and Jae-Gu Pan*

Industrial Biotechnology and Bioenergy Research Center, Korea Research Institute of Bioscience and Biotechnology

G031**Dynamics of Acetylation in *Escherichia coli pat* and *cobB* Mutants**

Jae-Hoon Jeong, Jung-Ae Kim, Yong-Jik Lee, and Jae-Gu Pan*

*Industrial Biotechnology and Bioenergy Research Center,
Korea Research Institute of Bioscience and Biotechnology***G032****Antibiotics Cross-resistance of Triclosan-resistant Mutant *Escherichia coli* IFN 4 Derived from FabI (G93V)**

Do Hyoung Kim, Jung Ae Kim, and Jae-Gu Pan*

*Industrial Biotechnology and Bioenergy Research Center,
Korea Research Institute of Bioscience and Biotechnology***G033****2-D Western View of Acetylated Proteins in *Escherichia coli***

Yong-Jik Lee, Jung-Ae Kim, Doo-Il Kim, Sung-Hyun Kang, and Jae-Gu Pan*

*Industrial Biotechnology and Bioenergy Research Center,
Korea Research Institute of Bioscience and Biotechnology***G034****A Novel Cell Surface Display and Release System by a Putative Autotransporter in *Escherichia coli***

In-Geol Choi, Heok-Jin Ko, Eunhye Park, and Kyoung Heon Kim*

*College of Life Sciences and Biotechnology, Korea University***G035****Directed Evolution of *Bacillus anthracis*-lytic Enzyme PlyPH Using INP Surface Display**Sun-Mi Shin¹, Eun-Hwa Choi¹, Soo-Keun Choi¹, Eui-Joong Kim², and Jae-Gu Pan^{1,*}¹*Industrial Biotechnology & Bioenergy Research Center,
Korea Research Institute of Bioscience and Biotechnology, ²Genofocus Inc.***G036****Engineered and Naturally Thermostable Mutants of Homoserine *o*-Succinyltransferase from *Escherichia coli*: Resistance to Aggregation**

Elena A Mordukhova, Dooil Kim, and Jae-Gu Pan*

*Industrial Biotechnology and Bioenergy Research Center,
Korea Research Institute of Bioscience and Biotechnology***G037****Characterization of Colony Variants and Localization of Enzyme in *Stenotrophomonas terrae* for Hydroxylation of Unsaturated Fatty Acid**

Soonhyang Kwon, Kyungju Kim, and Augustine Yonghwi Kim*

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H 기타 / Others

H001

Localization of the Actin-bundling Protein Cortexillin I during Cell Migration in *Dictyostelium discoideum*

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H002

Anti-viral Activity of Lactic Acid Bacteria Strains Against Porcine Epidemic Diarrhea Virus (PEDV)

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H003

HPV16/18 L1 DNA Vaccine Using Nonreplicable Viral Nano-Carrier Elicits Immune Responses in Mice

Hee-Jung Lee¹, Yoon Ki Heo¹, Yeon Dong Yeon Dong¹,

Yongdae Kwon¹, Keyong Ho Lee², and Young Bong Kim^{1,*}

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H004

In Vitro Adhesion of Medical Device-associated Bacteria and Anti-adhesive Effect of Curcumin Against *S. mutans* on Nano-sized TiO₂ Surfaces

In-Young Na¹, Seunghan Oh², and Kyoung-Hee Choi^{3,4,*}

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H005

Sorting and Classification of Intergenic Loci in Prokaryotic Genomes

Young-Gun Zo*

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H006

Crystal Structure of a Putative Alpha-glycosidase A from *Thermotoga neapolitana*

So-Young Jun, Bo-Young Yun, Bo-Young Yoon, Shunfu Piao, and Nam-Chul Ha*

College of Pharmacy and Research Institute for Drug Development, Pusan National

University

H007

Interaction Between Nucleocapsid and Tat protein of Human Immunodeficiency Virus Type 1 (HIV-1) and Its Effect on Tat-mediated Transcription

Hye-Won Hong, KyoungEun Cha, and Heejoon Myung*

Department of Bioscience and Biotechnology, Hankuk University of Foreign Studies

H008**Involvement of Heat Shock Protein 70 in Persistent Infection of BHK-21 Cells by Japanese Encephalitis Virus**

Hey Rhyoung Lyoo and Yong Seok Jeong*

*Department of Biology and Global Environment Research Institute,
Kyung Hee University***H009****A Comparison of The Gut Microbiota of Healthy Adult Twins Living in Korea and The United States**Sunghee Lee¹, Joohon Sung², Jung Eun Lee¹, Peter J. Turnbaugh^{3,4},
Jeffrey I. Gordon⁴, and GwangPyo Ko^{1,*}*¹Department of Environmental Health and Institute of Health and Environment,
School of Public Health, Seoul National University, ²Department of Epidemiology,
School of Public Health, Seoul National University, ³Harvard Faculty of Arts and
Sciences Center for Systems Biology, ⁴Center for Genome Sciences and Systems Biology,
Washington University School of Medicine***H010****Korea National Microorganisms Research Resource Center**

Sang Seob Lee*

*Kyonggi University***H011****Bank of Waterborne Virus**

Soon-Young Paik*

*Department of Microbiology, College of Medicine, The Catholic University of Korea***H012****Center for Fungal Genetic Resources (CFGR): Housing Plant Pathogenic Fungi for Educational and Research Purposes**

Yeo Kyoung Yoon* and Yong-Hwan Lee

*Center for Fungal Genetic Resources, Seoul National University***H013****Bacteriophagebank**

Kyoung Eun Cha*, Heejoon Myung

*Department of Bioscience and Biotechnology, Hankuk University of Foreign Studies***H014****Culture Collection of Mushrooms**

Jae Seong Lee, Jeong Hwa Kim, Hae Jin Cho, Nuhu Alam,

Nguyen Trung Kien, Kyung Rim Lee, U Youn Lee, and Tae Soo Lee*

*Department of Biology, University of Incheon***H015****Korea Bank for Pathogenic Viruses**

Ki-Joon Song*

Korea Bank for Pathogenic Viruses

H016**Myxobacteria Bank**

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H017**Lichen as a Novel Bioresources in Korea**

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H018**Korea Marine Microalgae Culture Center**

Sung Bum Hur*

Department of Marine Bio-materials and Aquaculture, Pukyong National University

H019**Culture Collection of Antimicrobial Resistant Microbes**

Eunju Shin, Hyunjin Hong, and Yeonhee Lee*

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H020**Korea National Environmental Microorganisms Bank**

Sang Seob Lee*

Kyonggi University

H021**Plant Virus GenBank**

Ki Hyun Ryu*

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H022***Helicobacter pylori* Korean Type Culture Collection (HpKTCC) Collects and Distributes Clinical Isolates of *H. pylori***

Hyung-Lyun Kang^{1,2}, Myung-Je Cho^{1,2}, Jae-Young Song^{1,2}, Woo-Kon Lee^{1,2},
Seung-Chul Baik^{1,2}, Kon-Ho Lee^{1,2}, Kwang-Ho Rhee^{1,2,*}

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Author Index

A

Abell, Guy C. J.	KJS1-4
Adachi, Mai	B056
Ahn, Bo-Eun	E012
Ahn, Eun-Hye	D011
Ahn, Hye-Ran	E009, E010
Ahn, Ji-Hye	C1-4
Ahn, Jin Ok	D025
Ahn, Sam Young	B002
Ahn, Tae-Seok	A001, A002, B027, B028
Akhremenko, Ya. A.	S4-5
Alam, Nuhu	H014
Alves, M. Madalena	PL4
An, Hyang Mi	A003, B008
An, Sang Eun	S2-4
An, Shu	S8-3
An, Young Jun	SA-2, C1-5, E011, E012
Anandham, Rangasamy	A010, A013
Arai, Hironori	B051
Asakawa, Shuichi	B068

B

Bae, Bo Kyoung	D025
Bae, Jin-Woo	KJS1-4, SA-1, A017, A018, A019, A020, A021, A022, A023, A027, B022, F013
Bae, Sangdong	A009
Bae, Seung Seob	S6-4
Bae, Yoe-Sik	S4-2
Baek, Eun-Young	F001
Baek, Hyun	E009, E010
Baek, Suk-Hwan	S4-2
Bahn, Yong-Sun	S2-2
Baik, Keun Sik	C1-3, A015, A016, B023, C013
Baik, Seung-Chul	H022
Baljinnyam, Oyuntugs	F022
Bang, Iel Soo	S7-3
Bang, Yeji	E003
Bari, Wasimul	D035
Bat-Ochir, Chinbayar	F022

Bok, Jeung-Im	B049
---------------	------

C

Cha, Chang-Jun	A037, B048, C019
Cha, In-Tae	A032
Cha, Injun	H001
Cha, Jeong-Dan	C005
Cha, Ju-Hee	A037, C019
Cha, Kyoung Eun	H007, H013
Cha, Min Kyeong	A003, B008
Cha, Se-Yeoun	D013
Cha, Sun-Shin	SA-2, C1-5, E011, E012
Chae, Jong-Chan	E008
Chae, Keon-Sang	F023
Chae, Suhn-Kee	F022
Chai, Airee	F017
Chai, Jin Choul	A014
Chai, Young Gyu	A014
Chang, Seokkee	D014
Chang, Yeon Ji	F007
Chang, Yi-Jia	B071
Chen, Ying-Lien	S2-2
Cheon, Da-Mi	C003
Cheon, Doo-Sung	S1-1
Cheon, Seon Ah	S2-2
Chi, Myung-Hwan	S2-3
Chi, Won-Jae	F025, F026
Chi, Youn-Tae	C016, D021, D022, F021
Chiura, Hiroshi X.	B052
Cho, Bo-Ram	F010
Cho, Eun Ji	F016
Cho, Hae Jin	H014
Cho, Hyo Rim	D033
Cho, Hyun-Hee	C1-1
Cho, Jae-Yong	C015
Cho, Kyoung-Oh	D024, F019
Cho, Kyu Ho	C008
Cho, Kyung Hwa	B005
Cho, Kyungyun	H016
Cho, Myung-Je	H022

Cho, Sang-Buem	B031, C008, C010	Chu, Fang-Yi	B067
Cho, Seung Sik	G009, G010	Chuang, Kang-En	B071
Cho, Soo Young	A014	Chun, Jongsik	W1-1, B039, D008
Cho, Sun Young	D032	Chung, Jongsang	A009
Cho, Sung-Heun	A036	Chung, Young-Hwa	D005
Cho, Sung-Jun	A036	Coh, Ye Rin	D025
Cho, Yeon Dong	H003	Couteau, Cécile	S8-3
Cho, Yong-Joon	D008		
Cho, Yoo-Bok	C1-5, F006	D	
Cho, You-Hee	D028	Darwin, K. Heran	S5-2
Choe, Han Na	B023, C013	Di, Doris Yoong Wen	B003, B004
Choi, Eun-Hwa	G035	Dionisio-Sese, Maribel L.	S5-4
Choi, Go-Woo	C016	Donohue, Timothy J.	F006
Choi, Hae Ji	A002	Dubow, Michael Scott	S8-3
Choi, Han Na	A015, A016	Dufour, Yann S.	F006
Choi, In-Geol	G034		
Choi, In-Soo	S9-3	E	
Choi, Jae Min	G028	Eguchi, Mitsuru	KJS1-1
Choi, Jaehyuk	D009	Ekpeghere, Kalu Ibe	B029
Choi, Jaeyoung	S2-3	Eom, Jeong Seon	C011, F028, F029
Choi, Ji Hyeon	D037	Epstein, Slava S.	B012
Choi, Ji Whi	C017	Eum, Soyoung	D014
Choi, Jong Hyun	S3-1		
Choi, Kyoung-Hee	H004	F	
Choi, Sang-Min	B046	Franks, Ashley E.	B007
Choi, Sang-Yoon	C1-4, D023	Fujiwara, Shinsuke	S10-3
Choi, Sang Ho	SA-3, A007, E003, E004, F014		
Choi, Sang Ki	C003, E002	G	
Choi, Seonlim	D014	Ghai, Rohit	B020
Choi, Seung-Ik	A001	Go, Junhyeok	D030
Choi, Slae	A007	Goh, Ah-Ra	C003, E002
Choi, Sol	G013	Gordon, Jeffrey I.	H009
Choi, Soo-Keun	G030, G035	Guo, Gia-Luen	B069
Choi, Su-Lim	S3-3		
Choi, Sun-Uk	S7-2	H	
Choi, Sungchang	B025	Ha, Cheol Woong	F005
Choi, Youngcheol	F008	Ha, Jung Wan	G006
Choi, Yu-Jeong	D011	Ha, Nam-Chul	E013, H006
Choi, Yun Hee	G004, G005, G006, G007, G008	Ha, Nam Joo	A003, B008
		Ha, Shin-Young	B029
Chou, Sheng-Hsin	B069	Ha, Sung Yong	B014
Choy, Hyon E.	S7-4, D026	Ha, Un-Hwan	S7-5
		Hadi, Abdul	B051
		Hahn, Ji-Sook	F010, F011, F012

Hahn, Yoonsoo	S8-2, B041	Hwang, Yong-Il	S7-2
Hamada, Moriyuki	A010, A012		
Hamasaki, Koji	B053, B054	I	
Han, Dong-Min	F023	Ijichi, Minoru	B054
Han, Dongfei	C001	Im, Chun-Soo	B016
Han, Dukki	B039	Im, Su-Jin	D017, D018
Han, Kang Rok	D032	Inoue, Kentaro	B055
Han, Kyudong	F003, G003	Inubushi, Kazuyuki	B051, B056
Han, Kyunghwan	D008, D009	Ishii, Satoshi	B057
Han, Song-Ih	A029, A030, B030		
Hansman, Grant	S1-4	J	
Haruta, Shin	KJS1-3	Jahng, Kwang-Yeop	F023
Hasegawa, Toshihiro	B050	Jang, Hwan	D011
Hatano, Ryusuke	B051	Jang, Hyung-Kwan	S9-2, D013
Hattori, Masahira	B057	Jang, Jeonghwan	B003, B004, B005
Hayashi, Kentarou	B050	Jang, Jung Im	C011, F028
Heitman, Joseph	S2-2	Jang, Kyeong-Ae	C006
Heo, Yoon Ki	H003	Jang, Min-Seok	D010
Ho, Chuan Hsin	B065	Jang, Se-Gul	C015
Hong, Hye-Won	H007	Jang, Tae Yong	A002
Hong, Hyunjin	H019	Jang, Yu-Sin	G016
Hong, Seung-Pyo	D036, H002	Jeon, Che Ok	S8-2, B041
Hong, Seung Hwa	D014	Jeon, Hyunbum	F008
Hong, Soon-Kwang	F025, F026	Jeon, Junhyun	S2-3
Hsieh, Hsiao-Cheng	B070	Jeon, Seong Gyu	S4-2
Hsu, Yuan-Chang	B066	Jeon, Taeck J.	H001
Huang, Shir-Ly	KJS1-5, B066, B069, B070, B071	Jeon, Yong Jae	G017
Huh, Won-Ki	C1-7, E006, E007, F005, F007, F012	Jeon, Yoon-Seong	W1-1
Hur, Gyeong Haeng	D032, D033	Jeon, Yukyoung	G029
Hur, Hor-Gil	B003, B004, B005, B009, B010, B018, C001, G002	Jeong, Chang-Sook	E011
Hur, Jae-Seoun	H017	Jeong, Daham	G027
Hur, Sung Bum	H018	Jeong, Dong-Won	G023
Hwang, Hee Jae	B033	Jeong, Eun-Ji	B015, B016, B017
Hwang, Hyun-Gook	C003, E002	Jeong, Jae-Hoon	G031
Hwang, Ingyu	S5-3	Jeong, Kyoung-Young	S2-3
Hwang, Jae Sung	G022	Jeong, Yeon Sug	B013
Hwang, Jae Yoon	F020, F024	Jeong, Yong Seok	B042, B043, H008
Hwang, Seoyoen	S1-1	Jiang, Shenghua	B009
Hwang, Ye-Seul	C013	Jin, Hyangin	D014
		Jin, Hyun Mi	B041
		Jin, Seon-Yeong	B019
		Jin, Xue-Mei	F025
		Jo, Ara	A001

Jo, Jea Hyung	F018	Kang, Kyoung Ho	B002
Jo, Youmi	E004	Kang, Min	D013
Joh, Kiseong	A001, A002	Kang, Min Jung	C007
Joh, Seong-Joon	D011	Kang, Mun-Il	F019
Joo, Yoo Jin	A031, D012	Kang, Pil Sung	G014
Joung, Jeewon	D014	Kang, Seogchan	S2-3
Joung, Yochan	A001, A002, B028	Kang, Sun-Chul	B029
Ju, Jae Eun	E008	Kang, Sung-Hyun	G033
Jun, Sang-Cheol	F023	Kang, Sung Gyun	S6-4, E011
Jun, So-Young	H006	Kasamatsu-Takasawa, Nobue	B053
Jung, Dawoon	B012	Katayama, Kazuhiko	S1-4
Jung, Hoi Jong	C1-5	Kato, Kenji	B058, B059
Jung, Hye-Sung	F027	Katsuyama, Chie	B058
Jung, Hyun Jung	C008	Kawanabe, Akira	B062
Jung, Jae Sung	A028, B001	Kien, Nguyen Trung	H014
Jung, Ji Young	S8-2	Kil, So-Yeon	E003
Jung, Kwang-Woo	S2-2	Kim Jin Seok	C011
Jung, Kyoung Hwa	A014	Kim, Augustine Yonghwi	G037
Jung, Man-Young	KJS1-2, D019, D020, G024	Kim, Bo Geum	F020, F024
Jung, Mi-Ja	A020, A021, A027	Kim, Byoung Guk	D014
Jung, Seunho	G026, G027, G028, G029	Kim, Byoung Sik	E004
Jung, Won Hee	D008, D009	Kim, Byung Ho	B033
Jung, Woo Sung	D025	Kim, Chan	C1-6
Jung, You Jung	B028	Kim, Chang-Jin	A024, A025, A026
Jung, Younghee	A009	Kim, Chang Jeon	A038
Jung, Yu Jin	A031	Kim, Chang Suk	C014
K		Kim, Choong-Gon	B025
Ka, Jong-Ok	B011	Kim, Chul-Joong	D036, H002
Kahng, Hyung-Yeel	A028, B001, B002	Kim, Chul Ho	G025
Kandori, Hideki	B062	Kim, Do Hyoung	G032
Kaneko, Ryo	B053	Kim, Dockyu	C009, G014, G015
Kang, Beom Sik	C009	Kim, Dong-Hoon	S6-3
Kang, Byunghak	S1-1	Kim, Dong-Hun	B010
Kang, Chun Il	D033	Kim, Dong-Uk	B011
Kang, Dae Woo	C011, F029	Kim, Dong Wook	S4-4
Kang, Gyeong Suk	D034	Kim, Dong Woon	C008
Kang, Heeyoung	A001	Kim, Doo-Il	G033, G036
Kang, Hye Young	A024, A025, A026	Kim, Dukyun	E004
Kang, Hyun Ah	S2-2	Kim, Duwoon	B023, C012, C013
Kang, Hyung-Lyun	H022	Kim, Eui-Joong	G035
Kang, Ji-Young	F023	Kim, Eun-Ju	D013
Kang, Jung Oak	S1-3	Kim, Eun-Sung	E002

Kim, Eun Jae	D031	Kim, Joon	A031, D012
Kim, Eun Mi	A015, B023	Kim, Joon Ha	B005
Kim, Eungbin	S8-3, C009	Kim, Ju-Young	B027
Kim, Eunju	E001	Kim, Jung-Ae	G031, G032, G033
Kim, Ha-Hyun	D024, F019	Kim, Jung-Bong	B049
Kim, Haemin	F006	Kim, Jung Rae	A003, B008
Kim, Han Bok	G022	Kim, Jungok	G002
Kim, Haneul	A001, A002	Kim, Keon-Hee	D026
Kim, Hee-Kyoung	F016	Kim, Ki Ho	C017
Kim, Hee Jin	A028	Kim, Kisang	S1-1
Kim, Hong-Gi	B029	Kim, Kwang Hyeon	C007
Kim, Hwanhee	G028	Kim, Kwang Kyu	A033
Kim, Hye-Young	C006	Kim, Kyoung-Dong	A006
Kim, Hyejin	S1-1	Kim, Kyoung-Ho	S8-4, KJS1-4
Kim, Hyemin	B039	Kim, Kyoung Heon	G034
Kim, Hyeon Guk	D014	Kim, Kyu Kwang	G022
Kim, Hyo-Jin	A006	Kim, Kyungju	G037
Kim, Hyo Sun	F020	Kim, Mal Nam	B013
Kim, Hyun-Jeong	D024, F019	Kim, Mi-Ree	A008, B006, B007
Kim, Hyun-Ju	D026	Kim, Mi-Sun	S6-3, A015
Kim, Hyun Uk	G018	Kim, Min-Jeong	B046
Kim, I-Jung	B011	Kim, Min-Kyu	E012
Kim, In-Soo	B029	Kim, Min-Soo	SA-1, KJS1-4, A018, A019, A020, B022, F013
Kim, In Cheul	C008	Kim, Min-Sun	B011
Kim, Insook	F015	Kim, Min Sik	S6-4
Kim, Jae-Hoon	C014	Kim, Min Soo	D015
Kim, Jaisoo	B040	Kim, Minsik	F006
Kim, Jandi	A019, A022	Kim, Moon-Chang	S7-2
Kim, Jee Cheon	D032	Kim, Na Young	D032, D033, D034
Kim, Jeong-Ho	D010	Kim, Ok-Sun	B039
Kim, Jeong Hwa	H014	Kim, Sang-Jin	A008, B006, B007
Kim, Jeongmi	D008	Kim, Sang-Mi	D007
Kim, Ji-Cheon	A014	Kim, Sang-Min	B032
Kim, Ji Young	B047	Kim, Sang-Yoon	G025
Kim, Jin Kyu	F021	Kim, Sang Doo	S4-2
Kim, Jin Seok	F028, F029	Kim, Sang Ho	C008
Kim, Jong-Geol	D019, D020	Kim, Sang Hoon	A014
Kim, Jong-Hyun	E010	Kim, Sang Hyeok	C017
Kim, Jong-Oh	C012	Kim, Sanggoo	C004
Kim, Jong-Shik	B025	Kim, Se Jong	B030
Kim, Jong Kun	B014	Kim, Se Kye	A014
Kim, Jongseol	B038		

Kim, Se Woong	A031, D012	Kim, Yun-Ji	A023
Kim, Seo-Yeon	F004	Kimura, Hiroyuki	B059
Kim, Seong-Joo	A014	Kinoshita, Takeshi	B058, B059
Kim, Seong Bum	B033	Ko, GwangPyo	S1-2, B005, B044, B047, D027, D028, D029, H009
Kim, Seonghun	G025	Ko, Heok-Jin	G034
Kim, Seryun	S2-3	Ko, Sang-Mu	C012
Kim, Seung-Bum	A036	Kogure, Kazuhiro	B006, B007, B052, B055, B060, B062
Kim, Seung Min	A007	Koh, Hyun Seok	A028
Kim, Si Wouk	G001	Koh, Sung-Cheol	B029
Kim, So-Jeong	A032, B034, D019, D020	Koh, Young Jin	H017
Kim, Soo-Jin	A010, A012, A013, B024	Kondo, Akihiko	S3-4
Kim, Soo-Ki	B031, B032, C010	Kong, Sunghyung	S2-3
Kim, Soo-Kyoung	D017, D018	Kong, Zwe-Ling	B067
Kim, Soo Hee	F024	Koo, Chang-Duck	A011
Kim, Soo Ki	C008	Koo, Eung Seo	B042
Kim, Soonok	S2-3	Kook, Joong-Ki	C1-6, D001, D002, D003, D004
Kim, Su-Ok	B031	Krasnozhenov, E. P.	S4-5
Kim, Su Jung	B044	Kronstad, James W.	D008, D009
Kim, Sun Ho	S2-4	Ku, Chan-An	B063
Kim, Sung-Eun	C003	Kuan, Jung	B068
Kim, Sung Jin	G015	Kuhad, Ramesh Chander	S6-2
Kim, Sungil	A009	Kwon, Chanho	G026, G027
Kim, Suyeon	E003	Kwon, Hyung-Jun	D024, F019
Kim, Tae Ho	D025	Kwon, Joseph	C012
Kim, Tae Yong	G018, G020	Kwon, Jun-Hun	D011
Kim, Tai Kyoung	G015	Kwon, Kae-Kyoung	A008, B007, B014
Kim, Wi-Sik	D010	Kwon, Kil-Koang	S3-3
Kim, Won Il	B043	Kwon, Ohsuk	G025
Kim, Wonduck	G001	Kwon, Soon-Wo	A010, A012, A013, B024
Kim, Yang	S2-3	Kwon, Soonhyang	G037
Kim, Yeon-Hee	D006	Kwon, Yongdae	H003
Kim, Yeon Soo	D032	Kwon, Yongeun	G029
Kim, Yi-Na	C003, E002	Kwon, Young Chul	G023
Kim, Yi-Seul	A010, A012, A013, B024, B049	Kyoung, A-Ra	D022
Kim, Yong Jin	S2-4		
Kim, Yoon-Keun	S4-2	L	
Kim, You-Sun	S4-2	Lee, Bang Yong	B039
Kim, Young-Ok	F013	Lee, Beom-Il	A002
Kim, Young Bong	H003	Lee, Bora	B038
Kim, Young Hwa	C008	Lee, Chang-Muk	B049
Kim, Young Jin	B033		
Kim, Young Ran	S7-4		

Lee, Changhan	F015	Lee, Jung Eun	B044, B047, D027, H009
Lee, Chayul	H016	Lee, Junghoon	E014
Lee, Chi-Ho	C010	Lee, Jungnam	G003
Lee, Do Kyung	A003, B008	Lee, Kang-Mu	S7-2, D030
Lee, Dong-Heon	A004, A005, B001	Lee, Kang Oh	A003, B008
Lee, Dong-Hun	A011	Lee, Kangseok	E013
Lee, Dong-Woo	E015, G030	Lee, Keun Chul	A033
Lee, Geon-Hyoung	A036, B033	Lee, Keyong Ho	H003
Lee, Gyu-Cheol	B046	Lee, Kon-Ho	H022
Lee, Ha Young	S4-2	Lee, Kui-Jae	E008
Lee, Hae-Beom	D013	Lee, Kyung Gun	S3-2
Lee, Hae-Ran	A030	Lee, Kyung Rim	H014
Lee, Hae Won	A017	Lee, Kyung Yun	G019
Lee, Haeng-Eun	C005	Lee, Kyusung	F011
Lee, Halim	D014	Lee, Mi-Hwa	C002
Lee, Hee-Jung	H003	Lee, Min Gu	C017
Lee, Hee Woo	D025	Lee, Na-On	F002
Lee, Heetae	B047, D027, D029	Lee, Peter	F012
Lee, Hwa-Young	B035	Lee, Sang-Beom	F008
Lee, Hyang Burm	A038	Lee, Sang Jun	S3-3
Lee, Hye-Jin	D011	Lee, Sang Seob	H010, H020
Lee, Hyo-Jin	A029, A030	Lee, Sang Yup	G013, G016, G017, G018, G019, G020, G021
Lee, Hyun Sook	S6-4, G023	Lee, Seok Jae	S3-2
Lee, Hyun Sung	A007	Lee, Seung-Goo	S3-3
Lee, Hyune Hwan	F018	Lee, Seung Won	B005
Lee, Il-Han	D036	Lee, Si Won	A003, B008
Lee, In-Kyoung	D022	Lee, Si Young	D006, D007
Lee, Jae-Chan	A024, A025, A026	Lee, Sun Bok	A004, A005
Lee, Jae Seong	H014	Lee, Sung-Jae	S7-1, F004, F008, F009
Lee, Jae Yung	D012	Lee, Sung-Won	D011
Lee, Jeong Wook	G013, G017, G021	Lee, Sung Dae	C008
Lee, Ji-Young	D022	Lee, Sung Gu	C017
Lee, Jin Ah	D034	Lee, Sung Kuk	S6-1
Lee, Jin Sung	A035	Lee, Sunghee	D027, H009
Lee, Jina	A019	Lee, Tae Soo	H014
Lee, Jinwook	B014	Lee, Taeho	B021
Lee, Jong-Ho	D016	Lee, U Youn	H014
Lee, Jong Hwan	C007	Lee, Woo-Kon	H022
Lee, Joon-Hee	D017, D018	Lee, Woo Song	D024, F019
Lee, Jounghmin	G016	Lee, Yeonhee	H019
Lee, Jung-Hyun	S6-4, A008	Lee, Yong-Hwan	S2-3, H012
Lee, Jung-Sook	A033		

Lee, Yong-Jik E015, G031, G033
 Lee, Yoo Kyung B039
 Lee, Young-Ok B019
 Lee, Young Nam E001
 Lee, Young Seek A014
 Lee, Young Sun A028, B001
 Lee, Younyeop F009
 Lee, Yu-Jin B046
 Lee, Yung Mi G014
 Li, Nan C1-2, B007
 Lim, Daejin A034
 Lim, Hyo-Sun B011
 Lim, Jae Kyu S6-4
 Lim, Jong-Gyu F014
 Lim, Ju-Hyeon F025
 Lim, Se-Eun S2-3
 Lim, Tae Kyu D016
 Lim, Young Woon A035
 Lin, Ting-Hsiang B066
 Lin, Yi-Wen B069, B071
 Liu, Shiu-Mei B063, B064, B065, B067, B068
 Liu, Xian-Yong E005
 Lyoo, Hey Rhyoung H008

M

Madsen, Eugene L. S8-5
 Maeng, Pil Jae S2-4
 Mander, Poonam G011
 Math, Renukaradhya B041
 Matsushima, Miwa B050
 Matsuura, Katsumi KJS1-3
 McMahon, Katherine D. B020
 Min, Dong-Ye B046
 Moon, Sung Wook B033
 Moon, Yuseok S4-3
 Mordukhova, Elena A G036
 Morohoshi, Sho KJS1-3
 Mun, Hey Yeon A038
 Mun, Seyoung G003
 Murakami, Kosuke S1-4
 Myung, Heejoon D015, D016, H007, H013

N

Na, In-Young H004
 Nagaosa, Kazuyo B058, B059
 Nam, Doo Hyun F020, F024
 Nam, Ji-Hyun A011
 Nam, Ji-Young F021
 Nam, Sungjin B039
 Nam, Young-Do SA-1, A020, A027
 Nawl Thawng, Cung A037, B048
 Nishizawa, Tomoyasu B057

O

Oem, Jae-Ku S9-1
 Ogino, Chiaki S3-4
 Oh, Chang Heon C011
 Oh, Doo-Byoung G025
 Oh, Hee-Bok A014
 Oh, Hokyoung D014
 Oh, Hye Gyung G001
 Oh, Jeong-Il F001, F002
 Oh, Ki-Hoon C002
 Oh, Kwang-Keun A014
 Oh, Kye-Heon E009, E010
 Oh, Myung-Joo C012, D010
 Oh, Sechan A009
 Oh, Seunghan H004
 Oh, Sung-Ae B046
 Oh, Tae-Kwang B041, C002
 Oka, Tomoichiro S1-4
 Okamoto, Ayako B053
 Oshima, Kenshiro B057
 Otaki, Hiroyo KJS1-3
 Otsuka, Shigeto B057

P

Paik, Sang-Min F012
 Paik, Soon-Young H011
 Pan, Jae-Gu E015, G030, G031, G032,
 G033, G035, G036
 Park, Chankyu E014, F015
 Park, Choi-Kyu S9-1
 Park, Da Jeong G004
 Park, Da Yeon F025

Park, Daegeun	D014	Park, Yong Keun	C011, D031, D037, F028, F029
Park, Dong-Jin	A024, A025, A026	Park, Yongjin	D030
Park, Eun-Jin	KJS1-4, B022	Park, YoungBin	D028
Park, Eunhye	G034	Park, Younghyun	B021
Park, Ga-In	D021	Park, Yun Sun	F027
Park, Gun-Woong	E002	Park, Yuri	G001
Park, Ha-Young	D017	Piao, Shunfu	H006
Park, Ha Ju	G014, G015	Plugge, Caroline M.	PL4
Park, Hae Ji	C007	Poo, Haryoung	D036, H002
Park, Heeyong	G014	Punnapayak, Hunsa	S2-1
Park, Hun-Wook	B017	Pyo, Sunkneung	D023
Park, In-Cheol	B024, B049		
Park, Jae-Jin	S2-3	Q	
Park, Jae-Yoon	D001, D002, D003, D004	Quan, Xiao-Tian	B031, B032
Park, Jeong Im	B038		
Park, Ji Ho	C017	R	
Park, Jin-Sook	C1-1, B015, B016, B017	Rha, Eugene	S3-3
Park, Jin Hee	G008	Rhee, Dong-Kwon	C1-4, D023
Park, Jin Hwan	F014	Rhee, Joon Haeng	S7-4
Park, Jong-Hyun	S9-1	Rhee, Kwang-Ho	H022
Park, Jong Myoung	G019, G020	Rhee, Sung-Keun	KJS1-2, A032, B034, D019, D020, G024
Park, Jongsun	S2-3	Rhee, Young Ha	SA-4
Park, Jun-Gyu	F019	Rho, Hee-Sool	S2-3
Park, Jungchan	C018	Rodríguez-Valera, Francisco	S8-1, B020
Park, Kwan Ho	F008	Roe, Jung-Hye	SA-2, C1-5, A006, E012, F006
Park, Nam-Mi	B036	Roh, Seong Woon	KJS1-4, A018, A019, A020, A021, A022, B022, F013
Park, Nyun-Ho	B025	Ryu, Ji-Young	B018, C001
Park, Sang-Sang	D023	Ryu, Ki Hyun	H021
Park, Seong-Kyu	A018, A019, A021, A027	Ryu, Sung Ho	S4-2
Park, Seong Chan	C1-3, A015, A016, B023, C013		
Park, Soo-Je	A032	S	
Park, Sook-Young	S2-3	Sadowsky, Michael J.	B005
Park, Soyoung	F009	Salim, Dawood	C018
Park, Su-Jin	D024, F019	Segawa, Takuya	B058, B059
Park, Suhk-Hwan	A036, B033	Senoo, Keishi	B057
Park, Sung-Joon	A037, B048	Seo, Eun-Young	B027, B028
Park, Sung-Wook	B037	Seo, Hye-Suk	D013
Park, Sunhwa	B018	Seo, Hyun-Seok	A008
Park, Suyeon	C002	Seo, Jiyoung	G030
Park, Tae Jung	S3-2		

Seok, Soon-Ja	A035	Sung, Moon-Hee	D036, H002
Seong, Chi Nam	C1-3, A015, A016, B023, C013	Susumu, Yoshizawa	B007
Sharifah, Emilia Noor	KJS1-1	Suwa, Yuichi	B058
Shido, Mayu	B059	Suwido, Limin	B051
Shin, Chun-Shik	E006, F007, F012	Suzuki, Ken-ichiro	A010, A012
Shin, Eunju	H019	Suzuki, Shotaro	B061
Shin, Gee-Wook	D011	T	
Shin, Jung-Ho	SA-2, C1-5	Tada, Yuya	B053
Shin, Kee-Sun	A032	Tago, Kanako	B057
Shin, Na-Ri	A017, A019, A020, F013	Takashi, Someya	B037
Shin, Sun-Mi	G035	Tamura, Tomohiko	A010, A012
Shin, Sung Ho	D032, D033, D034	Tanaka, Tsutomu	S3-4
Shin, Tai-Sun	C013	Taniguchi, Akito	KJS1-1
Shin, Wonseok	F003	Tao, Jun	E005
Sim, Se-Hoon	E013	Temuujin, Uyangaa	F026
Sim, Su-Jung	C013	Thauer, Rudolf Kurt	PL3
Simkhada, Jaya Ram	G011, G012	Tokida, Takeshi	B050
Sin, Hwoal Hyun	S8-3	Tomita, Fusao	PL1
Soh, Byoung Yul	E008	Toyoda, Sakae	B050
Sohn, Eun Rak	B038	Tran, Thao Dang-Hien	C1-4
Sohn, San Ho	A028	Tuan, Nguyen Ngoc	B070, B071
Sohrin, Rumi	B058, B059	Turgeon, B. Gillian	PL2
Song, Dong-Keun	S4-2	Turnbaugh, Peter J.	H009
Song, Ga Eun	F018	Tzou, Wen Shyong	B068
Song, Hong-Gyu	B035, G036	U	
Song, Hyunchul	D014	Unno, Tatsuya	B004, B005
Song, Jae-Young	H022	Untung, Darung	B051
Song, JaeHo	B006, B060	V	
Song, Jaekyeong	B049	Velimirov, Branko	B052
Song, Jae Jun	S3-1, S3-3	Vinuselvi, Parisutham	S6-1
Song, Ki-Joon	H015	W	
Song, Saemee	E013	Wada, Minoru	B061
Song, Seongeun	F008	Wakita, Takaji	S1-4
Sousa, Diana Z.	PL4	Wang, Kuen-Sheng	B071
Srisuttee, Ratakorn	D005	Wang, Kye Won	S3-2
Stams, Alfons J. M.	PL4	Watabe, Shugo	B068
Su, Yu-Zhen	B069	Weon, Hang-Yeon	A010, A012, A013, B024, B049
Suh, Yae-Seul	B003, B004	Whang, Kyung-Sook	A029, A030, B030, B037
Sun, Xiaoyu	B050		
Sung, Joohon	D027, H009		
Sung, Min-Kyung	C1-7, F005		

Whon, Tae Woong	A019, F013
Wi, Sol Mi	D034
Won, Mi-Young	B031
Woo, HeeChul	C013

X

Xu, Yongbin	E013
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Y

Yamada, Ryosuke	S3-4
Yang, Eun-Bin	E007
Yang, Jai Myung	D032, D033, D034
Yang, Soojeong	B040
Yang, Sung-Hyun	A008, B007
Yano, Midori	B050,
Yen, Chia-Yuan	B064
Yeom, DooHwan	D017, D018
Yi, Dae-Gwan	E007
Yi, Jongho	G017
Yim, Jung Han	G014, G015
Yim, Un Hyuk	B014
Yong, Dongeun	S9-4
Yoo, Chang Hoon	B043
Yoo, Dong Min	C017
Yoo, Ji Sun	F006
Yoo, Jin Cheol	G004, G005, G006, G007, G008, G009, G010, G011, G012
Yoo, Jong Shin	G021
Yoo, Miyoun	C009
Yoo, Seung-Hee	A013
Yoo, So Young	F028
Yoon, Bo-Young	H006
Yoon, Bong-Sik	D022
Yoon, Byoung-Jun	C014
Yoon, Jin Ho	F017, F027
Yoon, Jung-Hoon	C002
Yoon, Mi Young	B045, D030
Yoon, Sang Sun	B045, D030, D035
Yoon, Won Suck	D031, D037
Yoon, Yeo Kyoung	H012
Yoshizawa, Susumu	B062
Youn, Hwa Young	D025
Youn, Jinkwon	H016

Yu, Heui Jong	C017
Yu, Jaecheul	B021
Yu, Yeong Man	S2-4
Yun, Bo-Young	H006
Yun, Hongseok	G019
Yun, Ji-Hyun	A021, A023
Yun, Seo-Yeon	A011
Yun, Sung-Hwan	F016
Yundendorj, Khorloo	B002

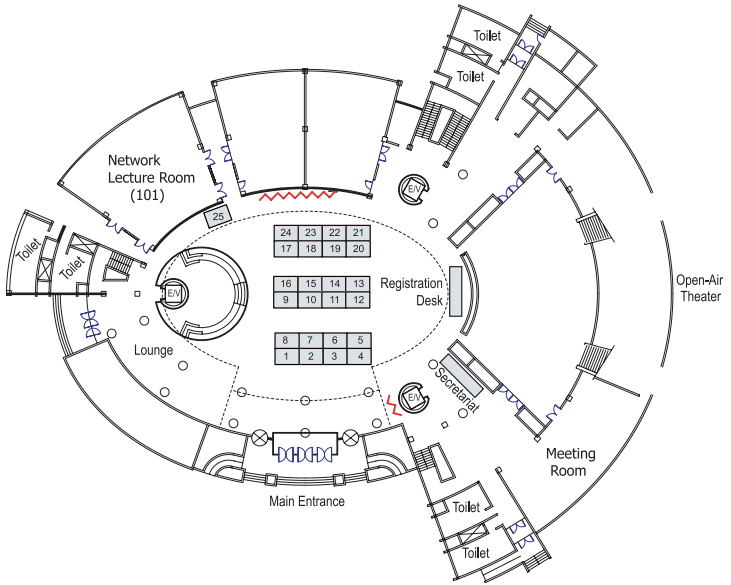
Z

Zo, Young-Gun	B026, B027, H005
Zou, Cheng-Gang	E005

Exhibition

Date: 09:00-18:00, May 12 (Thu.)-May 13 (Fri.)

Place: Main Lobby (1F) of Oryong Hall, GIST



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Main Technology and Products

BioControl Center establishes the cluster of agri-bioindustries related to biological control, natural enemy, microorganism and biotic pesticide, builds up the foundation for eco-friendly agri-bioindustry, and supports and incubates those companies

Jeollanamdo Microorganism Producer Association**Booth No.: 3**

(사)미생물연합회

Homepage: www.ddbio.com

CEO: Chan Il Jung

Email: jcl0621@hanmail.net

Tel.: +82-10-2630-1187

Fax: +82-61-383-0098

Address

495, Ip-myonro, Ip-myoun, Gokseong-gun, Jeollanam-do 516-942, Korea

Main Technology and Products

Jeollanamdo Microorganism Producer Association (20 members)
microbes-organic manure, organic fertilizers

Chunlab Inc.**Booth No.: 4**

(주)천연연구소

CEO: Jong Sik Chun

Tel.: +82-2-875-2501

Homepage: www.chunlab.comEmail: chunlab@chunlab.com

Fax: +82-2-875-7250

Address

#318, Institute of Computer Technology, Seoul National University, 56-1 Silim-dong, Gwanak-gu, Seoul 151-742, Korea

Main Technology and Products

The Chunlab Inc. was founded by Prof. Jongsik Chun at Seoul National University in 2009 with the mission to develop bioinformatics solutions for microbial genomics, functional genomics and metagenomics. The company provides bioinformatics analysis service for Next Generation Sequencing data based on Pyrosequencing from which microbial components are elucidated by the state-of-art bioinformatic algorithms and statistical analysis. Bioinformatics services for Microbial genomics and Transcriptomics are available as well. The full list and examples of currently available services and products can be found at <http://www.chunlab.com/eng>.

Products:

- Microbial community analysis by 454 pyrosequencing
- Genome Sequencing Analysis & Comparative Genomics Solutions
- Transcriptomics (RNA-Seq) Solutions By Illumina GAIIX
- Bioinformatics Consulting

Macrogen**Booth No.: 5**

마크로젠

CEO: HT Kim

Tel.: +82-2-2113-7072

Homepage: www.macrogen.comEmail: sales@macrogen.com

Fax: +82-2-2113-7919

Address

908 World Meridian Venture Center, #60-24, Gasan-dong, Geumchun-gu, Seoul 153-781, Korea

Main Technology and Products

Next Generation Sequencing
Sequencing
Oligo synthesis
Biochip
Genetically Engineered Mice

QIAGEN Korea**Booth No.: 6, 7**

쿼이젠코리아

CEO: Bernd Uder

Tel.: +82-2-2626-5788

Homepage: www.qiagen.comEmail: insang.jeon@qiagen.com

Fax: +82-2-2626-5789

Address

#1012 C Bldg. Woolim-Lions Valley, Gasan-dong, Gumchun-gu, Seoul 153-786, Korea

Main Technology and Products

DNA/RNA extraction kit & instrument, PCR/qPCR kit & cycler, Pyrosequencing instrument, DNA Methylation kit, Protein purification

HANSHIN MEDICAL CO., LTD.**Booth No.: 8**

한신메디칼

CEO: Jung-Yeul Kim
Tel.: +82-32-500-8800Homepage: www.hanshinmed.co.krEmail: sales@hanshinmed.co.kr
Fax: +82-32-508-8866**Address**

3-7, Cheongcheon.2-Dong, Bupyeong-gu, Incheon 403-853, Korea

Main Technology and Products

Digital LED or LCD Display Type Class-B Steam Sterilizer.

Fully satisfying the conditions of Hollow Load A Test regulated EU Standard

Air Removal Method is Vacuum Pump

Self-Diagnosis programs detects the 6 kind of operation error code during Cycle

Connect with PCB & Be able to use USB Port for Computer or Saving Record

Five (5) Kind of Basic Cycle & Two (2) Kind of Test Cycle

Using Safety Device like Safety Valve, Overheat Sensor, Circuit Breaker and so on.

Roche Diagnostics Korea Co., Ltd.**Booth No.: 9, 10**

한국로슈진단

CEO: Hun Koo Lee
Tel.: +82-2-550-1229Homepage: www.roche-applied-science.comEmail: seung-yun.lim@roche.com
Fax: +82-2-550-1218**Address**

4F, Seokyeong Bldg. 1000-3, Daechi-dong, Gangnam-gu, Seoul 135-280, Korea

Main Technology and Products

Roche Applied Science, we provided high quality reagents and instruments for Real-Time PCR, Genome Sequencer, Nucleic Acid Purification, Transfection and Cell analyzer in life science research through the effort to invest new technology and discovery.

Korea National Microorganisms Research Resource Center Booth No.: 11

국가연구소재 미생물거점센터

CEO: Sang Seob Lee
Tel.: +82-31-249-9898Homepage: www.knmrrc.or.krEmail: knmrrc@knmrrc.or.kr
Fax: +82-31-251-4721**Address**

Research center R201 San 94-6, Iui-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-760, Korea

Main Technology and Products**Goals of the Korea National Microbiological Research Resource Core Center**

- Construction of standardized and integrated management system
- Construction of Core center and other organs network
- Quality Control (QC) of microbial resources in the member banks
- Conservation of Resources in the member banks and the interrupted banks
- Education for professionals in the member banks
- Public Relations for raising people's awareness of the importance of microbiological resources

Bioneer Corporation**Booth No.: 12**

(주)바이오니아

CEO: Han-Oh Park

Tel.: +82-42-936-8500

Homepage: www.bioneer.comEmail: sales@bioneer.com

Fax: +82-42-930-8600

Address

49-3, Munpeong-dong, Daedeok-gu, Daejeon 306-220, Korea

Main Technology and Products

As the first Korean bio-venture company established in 1992, Bioneer is providing total solution for genomics/molecular diagnostics from DNA/RNA and enzymes to state-of-the-art instruments.

The main products are:

1. siRNA/Oligonucleotide including raw materials (ISO 9001)
2. QPCR Diagnostics (ISO 13485)
3. DNA/RNA Extraction/Amplification Kits(ISO 9001) including brand-new RocketScript™ RT products
4. Instruments

InSung Chroma-Tech Co., Ltd.**Booth No.: 13**

인성크로마텍(주)

CEO: Geunsung Yoon

Tel.: +82-2-2644-1991

Homepage: www.insung.netEmail: is@insung.net

Fax: +82-2-2644-1996

Address

#89-106, Shinjeong2-dong, Yancheon-gu, Seoul, Korea

Main Technology and Products

* Wyatt: Multi-Angle Light Scattering, Dynamic Light Scattering, FFF

* Biolog: PM, PMM, MicroStation, OmniLog, MicroPlate

* Dupont: BAX Q7 system, RiboPrinter System, Lateral Flow System

* dPC Fractionator/NanoPro 100 System/ Edge 200 Separation System/MDLC/

Glycan Profiling System/ELISA Kits /DNA, RNA, PROTEIN Purification kit/

Protein Drug target activity assays/Micro-SPE & sample Clean-up

Protein Engineering Innovation Center**Booth No.: 15**

단백질산업기술기반센터

CEO: Jae Gu Pan

Tel.: +82-42-860-4483

Homepage: www.biocat.or.krEmail: jgpan@kribb.re.kr

Fax: +82-42-860-4488

Address

111 Gwahangno, Yuseong-gu, Daejeon, Korea

Main Technology and Products

Enzyme and Protein Engineering

KisanBio**Booth No.: 16**

기산바이오텍

Homepage: www.kisanbio.com

CEO: J.W Sun

Email: info@kisanbio.com

Tel.: +82-2-529-2282

Fax: +82-2-529-2284

Address

2F, 86-2 Kisan B/D, Yangjae-dong, Seocho-gu, Seoul, Korea

Main Technology and Products

A wide range of MBcell Microbiological media for growth of bacteria. It provides dehydrated culture media, ingredients for culture media, supplements. A wide selection of MBcell Plant Media for the growth of plant cells. It includes M&S media, Orchid media, Other plant tissue culture media, Plant growth regulators, Antibiotics, Gelling agents and Bio-chemicals.

Seoulin Bioscience**Booth No.: 17, 18**

서린바이오사이언스

Homepage: www.seoulin.co.kr

CEO: Eulman Hwang

Email: kjkwon@seoulin.co.kr

Tel.: +82-2-478-5911

Fax: +82-2-478-5912

Address

Seoulin Bldg., 452-2 Songnae-dong, Gangdong-gu, Seoul 134-030, Korea

Main Technology and Products

Thermo fisher scientific의 관련 브랜드

Attymetrix의 관련 브랜드

wako

Young In Frontier CO., LTD.**Booth No.: 19**

영인프론티어(주)

Homepage: www.abfrontier.com

CEO: Young Il Choi

Email: orders@younginfrotier.com

Tel.: +82-1577-2684

Fax: +82-31-460-9410

Address

11F, Byucksan Digital Valey 5th, 60-73, Gasan-dong, GeumCheon-gu, Seoul, Korea

Main Technology and Products

Primary antibody, Secondary antibody, ELISA Kit etc

Gene service, Protein service, Antibody service, Antibody purification service,

ELISA Kit development service

Sartorius Korea Biotech Co., Ltd.**Booth No.: 20, 21**

사토리우스 코리아 바이오텍 (주)

Homepage: www.sartorius.or.kr

CEO: Duck Sang Kim

Email: dennis.moon@sartorius-stedim.kr

Tel.: +82-62-610-5184

Fax: +82-62-610-5185

Address

207-201, 946, Maewol-dong, Seo-gu, Gwangju, 502-153, Korea

Main Technology and Products

Sartorius Stedim Biotech is a leading provider of cutting-edge equipment and services for the development, quality assurance and production processes of the biopharmaceutical industry. Its integrated solutions covering fermentation, filtration, purification, fluid management and lab technologies are supporting the biopharmaceutical industry around the world to develop and produce drugs safely, timely and economically.

Becton Dickinson Korea, LTD.**Booth No.: 22**

백톤디킨슨코리아(주)

Homepage: www.bd.com

CEO: Yong Joo Kim

Email: ki-yong_lee@bd.com

Tel.: +82-2-3404-3700

Fax: +82-2-3404-3785

Address

4F, Im-sung Building 788-2, Yeoksam-dong, Gangnam-gu, Seoul, Korea

Main Technology and Products

Diagnostic Systems is the global leader of products and instruments used for diagnosing infectious diseases. Our products are used in the clinical market to screen for microbial presence, grow and identify organisms, and test for antibiotic susceptibility. In the industrial market, Diagnostic Systems' products are used for the testing of sterile and non-sterile pharmaceuticals and medical devices, for environmental monitoring and to detect food pathogens.

PhileKorea Technology, Inc.**Booth No.: 23**

(주)필코리아테크놀로지

Homepage: www.philekorea.co.kr

CEO: Minbong Park

Email: info@philekorea.co.kr

Tel.: +82-2-2105-7020

Fax: +82-2-2105-7025

Address

#1304, IT Premier Tower, 345-50, Gasan-dong, Geumcheon-gu, Seoul 153-802, Korea

Main Technology and Products

PCR, Real-Time PCR, Bio Imaging System, Nucleic Acid Purification kit, PCR Enzyme&Mixes, Real-Time PCR Reagents, Consumables

Bio-Medical Science Co., Ltd.**Booth No.: 24**

(주)비엠에스

CEO: Sunki Kim

Tel.: +82-2-3471-6500

Homepage: www.bmskorea.co.krEmail: info@bmskorea.co.kr

Fax: +82-2-3472-1211

Address

BMS Bldg. 829 Yeoksam-dong, Gangnam-gu, Seoul, Korea

Main Technology and Products

Laboratory Equipments, Lab Supply, Molecular Biology, Genomics,

Protein Chemistry, Cell Biology, HTS&HCS, Diagnostic,

Animal, Plasticwares etc.

Bioscience Publishing Co., Ltd.**Booth No.: 25**

(주)바이오사이언스출판

CEO: Jeong Gu Moon

Tel.: +82-2-581-4057

Homepage: www.biobooks.co.krEmail: bioscience06@hanmail.net

Fax: +82-2-581-4059

Address

#402 Hosan Bldg., 479-4, Bangbae-dong, Seocho-gu, Seoul, Korea

Main Technology and Products

Brock Biology of Microorganisms, 13/E

Michael T. Madigan