

E5031 Formation of Cyclopropane Fatty Acid in Salmonella and Its Function upon Acid Shock

Bang Me Han*, Bae Hoon Kim, Gun Ick Bae, Jin Lee, Soo Youn Lee, Sung Ho Bang ¹, and Yong Keun Park College of Life Sciences and Graduate School of Biotechnology, Korea University, ¹Department of Biology, Hanseo University

E5032 Protein-Protein Interaction Network involving Enzyme IIA Gle of Escherichia coli PTS

Yung-Ha Park*, Tae-Wook Nam, and Yeong-Jae Seok School of Biological Sciences, Seoul National University

F. 발효 및 대사산물

F1001 Production, Isolation and Biological Activities of Antifungal and Antibacterial Antibiotics from Streptomyces sp. SCC2136

Seung-Sik Cho*, Jin-Ho Choi, Hyo-Jung Lee, Jing-Shu Piao, Cheol-Hee Choi¹, Si-Wouk Kim², Oh-Hyung Lee³, and Jin-Cheol Yoo

Department of Pharmacy, College of Pharmacy, Chosun University, ¹Department of Pharmacology, College of Medicine, Chosun University, ²Department of Environmental Engineering, Chosun University, ³Department of Biology, Mokpo National University

F3001 The Effect of a Mycelia Produced from a Submerged Mycelial Culture of *Ganoderma lucidum* on Hypoglycemia in Rats

Byung-Keun Yang*, Sang-Chul Jeong¹, Yong-Tae Jeong¹, Young-Ah Gu¹, and Chi-Hyun Song¹
Research Center for Processing & Application of Agricultural Products, Daegu University, ¹Deparatment of Biotechnology, Taegu University

F3002 Anti-Complementary Activities of Endo- and Exo-Polymers Produced from a Submerged Mycelial Culture of Eight Different Mushrooms

Young-Ah Gu*, Byung-Keun Yang¹, Sang-Chul Jeong, Yong-Tae Jeong, and Chi-Hyun Song Department of Biotechnology, Taegu University, ¹Research Center for Processing & Application of Agricultural Products, Daegu University

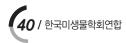
F3003 Identification of Gibberellin-producing Fungi from the Root of Crop, Wild Plant and Medicinal Herbs

Wha-Youl Choi*, Soon-Ok Lim, Yong-Gu Sim³, In-Jung Lee¹, In-Koo Rhee², Jong-Guk Kim Department of Microbiology, ¹Department of Agriculture, ²Department of Agricultural chemistry, Kyungpook National University, ³Ponghwa Alpine Medicinal Plant Experiment Station Gyeongbuk Provincial R.D.A.

F3004 Effect of Addition of Crab shell to Sawdust Substrate on the Growth of *Pleurotus eryngii*

Usik Jo*, Younghyun Rew, Sungguk Choi, Sukhee Lee, and Jaeyoul Uhm¹

Department of Agricultural Environment, Gyeongbuk Agricultural Technology Administration, ¹Department of Agricultural Biology, Kyeongbuk University



F3005 Compost of Cotton Waste Substrate Using Fermented Sawdust

Se Jong Oh*, Jeong Sik Park, Pyung Gyun Shin¹, and Young Bok Yoo

Division of Applied Microbiology, National Institute of Agricultural Science and Technology, RDA, ¹Division of Plant Nutrition, National Institute of Agricultural Science and Technology, RDA

F4001 Diacylglycerol Production by Enzymatic Glycerolysis of Edible Oil

Eun-Young Ahn*, Kyung-Jun Park, Gi-Suk Kwon, and Sung-Tae Kang

Department of Food Science and Technology, Seoul National University of Technology

F4002 2 -Methylhydroquinone Inhibits Etoposide-Induced Caspase-3-like Protease Activation in U937 Human Leukemia Cells

Jin-Hee Kim*, Yung-Hee Kho, Mee-Ree Kim¹, and Choong-Hwan Lee

Korea Research Institute of Bioscience and Biotechnology (KRIBB), ¹Department of Food and Nutrition, Chungnam National University

F4003 Purification and Chemical Properties of a Flocculant Produced by Arcuadendron sp. TS-49

Soon Ho Lee* and Tae Ho Lee

Department of Food Microbiology, Korea Food and Drug Administration, ¹Department of Microbiology, Pusan National University

F4004 Flocculation Properties of Bioflocculant TS-49 Produced by Arcuadendron sp. TS-49

Soon Ho Lee* and Tae Ho Lee

Department of Food Microbiology, Korea Food and Administration, ¹Department of Micorbiology, Pusan National University

F4005 Isolation of Bacteriocin-Producing Lactic Acid Bacteria from Kimchi

Ji Yoon Chang*, In Cheol Kim¹, and Hae Choon Chang

Department of Food and Nutrition, Chosun University, Department of Food Engineering, Mokpo University

Solid-State Fermentation for Production of Monacolin K on Soybean by Monascus ruber

Xiao Qin Jia*, Bao Jun Xu, Zhe Ming Fang, Hyo Jin Kang, Jeong Hyun Lee, Eun Kyoung Mo¹, and Chang Keun Sung Department of Food Science and Technology, Chungnam National University, ¹Research Center, DBIO Incorporation

F4007 Identification of Phenylethyl Alcohol and Other Flavor Volatile Compounds from Yeasts, *Pichia farinosa* SKM-1, *Pichia anomala* SKM-T, and *Galactomyces geotrichum* SJM-59

Eun Kyoung Mo*, Hyo Jin Kang, Jeong Hyun Lee, Bao Jun Xu, Xiao Qin Jia, Zhe Ming Fang, Deuk Kyun Im, Woo Youl Lee, Tae Gun Eom, and Chang Keun Sung 1

Department of Food Science and Technology, Chungnam National University, 'Research Center, DBIO Incorporation

F4008 Effect of *Pichia farinosa* SKM-1, *Pichia anomala* SKM-T, and *Galactomyces geotrichum* SJM-59 on Ammonia Reduction and Laying Performance in Layer

Eun Kyoung Mo*, Hyo Jin Kang, Jeong Hyun Lee, Bao Jun Xu, Xiao Qin Jia, Zhe Ming Fang, Deuk Kyun Im, Woo Youl Lee, Tae Gun Eom, and Chang Keun Sung 1

Department of Food Science and Technology, Chungnam National University, Research Center, DBIO Incorporation



F4009 Adhesion of Yeasts, *Pichia farinosa* SKM-1, *Pichia anomala* SKM-T, and *Galactomyces geotrichum* SJM-59, to Cultured Human Intestinal Epithelium Cell and Murine Intestinal Surface

Eun Kyoung Mo*, Hyo Jin Kang, Jeong Hyun Lee, Bao Jun Xu, Xiao Qin Jia, Zhe Ming Fang, Deuk Kyun Im, Woo Youl Lee, Tae Gun Eom, and Chang Keun Sung 1

Department of Food Science and Technology, Chungnam National University, ¹Research Center, DBIO Incorporation

F4010 Uptake and Retention of Sodium Selenite in Cultured Galactomyces geotrichum SJM-59

Hyo Jin Kang*, Eun Kyoung Mo¹, Jeong Hyun Lee, Bao Jun Xu, Xiao Qin Jia, Zhe Ming Fang, Deuk Kyun Im, Woo Youl Lee, Tae Gun Eom, and Chang Keun Sung

Department of Food Science and Technology, Chungnam National University, ¹Research Center, DBIO Incorporation

F4011 Insectidal Activities of Bacillus thuringiensis SKY-1 Against Musca Domestica Larvae

Jae Hoon Kim*, Hyo Jin Kang¹, Eun Kyoung Mo, Jeong Hyun Lee¹, and Chang Keun Sung¹
Research Center, DBIO Incorporation,¹Department of Food Science and Technology, Chungnam National University

F4012 Screening of Lipid Accumulation Inhibitor Using *Lipomyces starkeyi* ATCC 58680 from Medicinal Herbs

Jeong Hyun Lee*, Eun Kyoung Mo¹, Hyo Jin Kang, Bao Jun Xu, Xiao Qin Jia, Zhe Ming Fang, Deuk Kyun Im, Woo Youl Lee, Tae Gun Eom, and Chang Keun Sung

Department of Food Science and Technology, Chungnam National University, ¹Research Center, DBIO Incorporation

F4013 Proteomic Analysis of a Lysine-Producing Corynebacterium glutamicum Strain

Hyun Min Koo*, Suk Am Kim¹, Young Yil Bahk², Yu Sam Kim², Seong-Jun Kim, and Young-Hoon Park R & D Center of Bioproducts, Institute of Science & Biotechnology, CJ Corp., ¹Proteome Tech INC, ²Department of Biochemistry, Protein Network Research Center, Yonsei University

F4014 Disruption of the *ldhA* Gene Encoding Putative Soluble L(+)-Lactate Dehydrogenase in a Lysine-Producing *Corynebacterium glutamicum* Strain Prevents the Production of L-Lysine

Hyung-Joon Kim*, Hee-Jong Lee, Hyun Min Koo, Young-Hoon Park, and Seong-Jun Kim *R & D Center of Bioproducts, Institute of Science & Biotechnology, CJ corp.*

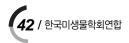
F4015 Isolation of the Inhibitor on Dual-Specificity Protein Tyrosine Phosphatase form Fungal Isolate CRM000232

Eun Young Bae*, Jung Hyun Hong, O Song Kwon, Hyang Burm Lee, Chang Jin Kim, Bo Yeon Kim, Cheon Bae Sohn¹, and Jong Seog Ahn

Korea Research Institute of Bioscience and Biotechology (KRIBB), ¹Department of Food and Nutrition, Chungnam National University

F4016 The Novel Mutations of DAHP Synthase and *trpR* Genes in Tryptophan-Overproducing *E. coli* Strain

Ho-Soo Lim*, Byong-Hoon Kim, Sang-Jo Lim, Seong-Jun Kim, and Young-Hoon Park *R & D Center of Bioproducts, Institute of Science & Technology, CJ Corp.*



F4017 Anticancer and Antioxidant Activities of *Coriolus versicolor* Liquid Culture Extracts Grown in the Dilute Citrus Extracts

Se-Jin Lee*, Taeg Kim¹, Jin-Yong Kim, Seong-Hoon Moon, Jeong-Sik Seo, Dae-Sun Kim, Jullia Kim, Young-Jun Kim, and Yong-Il Park

Division of Biotechnology, The Catholic University of Korea, MAT Co.

F4018 Deacidification Effect of Korean Red Wine with Leuconostoc oenos

Kyung-Hee Koh* and Eun-Hae Kim

Department of Food Science and Nutrition, The Catholic University of Korea

F4019 Identification of Lactic Acid Bacteria Isolated from Korean Red Wine

Kyung-Hee Koh*, Eun-Hae Kim, and Sang-Kyun Koh

Department of Food Science and Nutrition, The Catholic University of Korea, Division of Life Science, Daejon University

F4020 Inhibitory Effects of the Solvent Fractions from Red Yeast Rice on Xanthine Oxidase Activity

Chi-Duck Park*, Hyuck-Jun Jung, Sung-Min Park, Sang-Hoon Lee, Hang-Woo Lee¹, Hyun-Soo Kim, and Tae Shick Yu Department of Microbiology, Keimyung University, ¹Traditional Microorganism Resources Center, Keimyung University

F4021 Cultural Characteristics of Aspergillus coreanus NR 15-1 Isolated from Traditional Korean Nuruk

Sang-Hoon Lee*, Hyuck-Jun Jung, Sung-Min Park, Chi-Duck Park, and Tae Shick Yu Department of Microbiology, Keimyung University

F4022 Optimal Condition of Inducer Concentration and Culturing Temperature for Solubilization of Expressed Heterologous Actinidin in *E. coli*.

Nam Keun Lee*, Sung Yong Yoo, and Young Tae Hahm Department of Biotechnology, Chung Ang University

F4023 Cloning and Expression of the Aspergllus ficuum Phytase (phyA) in Escherichia coli

Ki Youn Kim*, Mi Hyun Choi, and Young Tae Hahm

Department of Biotechnology, Chung Ang University

F4024 Effect on the Growth of Intestinal Microorganisms by Mannooligosaccharides Produced with *Bacillus* sp. β-Mannanase

Jun Young Choi* and Gwi Gun Park

Department of Food and Biotechnology, Kyungwon University

F4025 Isolation of a Bifidobacteria-like Probiotic Oxalobacter sp.

Myung-Hee Chae* and Deok-Young Jhon

Department of Food and Nutrition, Chonnam National University, ¹Department of Food and Nutrition, Human Ecology, Chonnam National University



F4026 Structural Characteristics of β-Glucan Extracted from Schizophyllum Commune

Young Hyun Park*, Jong Seok Lee, and Eock Kee Hong School of Biotechnology and Bioengineering, Kangwon National University

F4027 Study of Recovery Yield of Polysaccharide from Schizophyllum commune

Yong Soo Youm*, Young Hyun Park, and Eock Kee Hong School of Biotechnology and Bioengineering, Kangwon National University

F4028 Role of the Membrane-Associated Malate Dehydrogenase in the L-Lysine Producing *Corynebacterium* Strain

Hee-Jong Lee*, Sang-Jo Lim, Seong-Il Lee, Seong-Jun Kim, and Young-Hoon Park R&D Center of Bioproducts, Institute of Science & Technology, CJ Corp.

F4029 Screening of Microbial Urease Inhibitors on Controlling Ammonia in Manure Slurry

Soonok Park*, Sejong Oh¹, and Saehun Kim
Division of Food Science, Korea University, ¹Korea Yakult Co. Ltd.

F4030 Isolation of Lactic Acid Bacteria with β-galactosidase Activity from Fermented Foods

Dong Mi Seo*, Hyun-Ju Eom, Hyun Kim, Jae Hong Lee, and Nam Soo Han

Department of Food Sci. and Tech., Research Center for Bioresource and Health (RCBH), Chungbuk National University

F4031 Isolation of *Bacillus* sp. Producing Xylanase and CMCase and Optimization of Medium Conditions for Its Production

Jin-Kyu Kim*, Won-Hyung Jeong, Si-Yong Yang, Min-Dong Song, Se-Teak Oh, and Chang-Won Kim¹ Department of Biotechnology, Konkuk University, Department of Dairy Sciences, Konkuk University

F4032 Isolation and Characterization of *Bacillus subtilis* and *Bacillus megaterium* with Fibrinolytic Activity from Fermented Traditional Medicines

Won Kyung Jeon*, Seon Woong Han¹, Jong Doo Kim¹, Ho Kyung Kim, Bo Rim Kim¹, and Soo Young Kim¹ Quality Control of Herbal Medicine Department, Korea Institute of Oriental Medicine, ¹Department of Biological Sciences, Konkuk University

F5001 The Pellet Growth and Dispersion of Pellets of Streptomyces coelicolor A3(2)

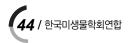
Jae-Heon Kim*, Yul-Min Kim, and Ho-Jin Jung Department of Microbiology, Dankook University

F5002 Bioelectrochemical Control of Metabolic Flux of Weissella kimchii

Sun Mi Park*, Hye Sun Kang, In Ho Shin, Sung Jin Jeon, and Doo Hyun Park Department of Biological Engineering, Seokyeong University

F5003 The Nitrite-Scavenging Effect of Lactobacillus plantarum HB1

Hyung Jae Yoo*, Ki Hyun Kim, Jae Seoung Hwang, Hye Gyoung Lee, and Han Bok Kim Department of Life Science, Hoseo University



F5004 Isolation and Characterization of Polyether Ionophore Antibiotics Effective to Methicillin-Resistant Staphylococcus aureus (MRSA) from Streptomyces sp. CS 0684

Jin-Cheol Yoo*, Joon-Ho Kim, Jin-Ho Kim, Seung-Sik Cho, Hyo-Jung Lee, Jing-Shu Piao, Jae-Kyung Sohng¹, and Chi-Nam Seong²

Department of Pharmacy, College of Pharmacy, Chosun University, ¹Institute of Biomolecule Reconstruction(IBR) SunMoon University, ²Department of Biology, Sunchon National University

F5005 Purification and Biochemical Characterization of Adenylation Domains Included in NRPS Modules of Biosynthetic Gene Cluster of Cephabacins in *L. lactamgenus*

Atanas Demirev*, Hyun Sung Chang¹, and Doo Hyun Nam¹

Department of Biotechnology, Yeungnam University, 'College of Pharmacy, Yeungnam University

F5006 Overproduction of Cellulose in *Acetobacter xylinum* KCCM 10100 Defective in GDP-Mannosyltransferase

Sang Tae Park* and Young Min Kim

Department of Biology, Yonsei University

F5007 Identification and Characterization of Aerobic Spore-Forming Bacteria Isolated from Chungkookjang

Eun Hee Jeon*, Ji Hye Kim, and Young Tae Hahm Department of Biotechnology, Chung-Ang University

F5008 Odor and Microbiological Analysis of the *Chungkookjang* Developed for Reduced Unpleasant Odor

Joo Hyung Rhee* and In Hyung Lee

Food & Life Science, Major, School of Techno Science, Kookmin University

F5009 Comparison of *In Vitro* Physiological Functionalities of *Monascus purpureus* KLHS4 and Its Albino Strain ME2B

Young-Ho Kim*, You-Joung Lim, Sung-Ho Lee, Hwa-Hyoung Chang¹, Jong-Soo Lee, and Ki-Sung Lee Research Center for Biomedicinal Resources(Bio-Med RRC) and Division of Life Sciences, Pai-Chai University, ¹Radiation Application Team, KAERI.

G. 유전 및 유전체

G1001 A Srb10-11 Pair Is Involved in Glucose Repression of STA1 Expression by Activating NRG1 and SFL1 Expression and Supporting Nrg1- and Sfl1-Mediated Repression

Tae Soo Kim* and Hyen Sam Kang

School of Biological Sciences, Seoul National University