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Sub-No.	Poster No.	Title	Authors	Affiliation
16-001	P-01	Effects of Different Quarantine Treatments on Quality Properties of Dried Red Ginseng	Yunhee Jo ¹ , Young-Jeong Kwon ² , Joong-Ho Kwon ^{1*}	¹ School of Food Science & Biotechnology, Kyungpook National University, Daegu 41566, Korea ² School of Applied Bioscience, Kyungpook National University, Daegu 41566, Korea
16-002	P-02	Identification of Irradiated Ginseng Products Using Thermoluminescence and Electron Spin Resonance Analyses	Yunhee Jo, Joong-Ho Kwon [*]	School of Food Science & Biotechnology, Kyungpook National University, Daegu 41566, Korea
16-005	P-03	Chronic administration of ginseng saponins prevent the memory impairment induced by scopolamine in mice	Yuyun Chen, Yannan Wang, Junrong Du [*]	Department of Pharmacology, Sichuan University, Chengdu, 610041, China.
16-006	P-04	20-O-β-D-glucopyranosyl-20(S)-protopanaxadiol, a metabolite of ginsenoside Rb1, enhances the production of hyaluronic acid through the activation of ERK and Akt mediated by Src tyrosin kinase in human keratinocytes.	Tae-Gyu Lim ¹ , Young-Chul Lee ¹ , Jun-Seong Park ² , Jong-Eun Kim ³ , Deok-Kun Oh ⁴ , Yoongho Lim ⁴ , Ki Won Lee ³	¹ Korea Food Research Institute, Seongnam, Gyeonggi-do 13539, Republic Korea ² Skin Research Institute, Amorepacific Corporation R&D Center, Yongin 314-1, Korea ³ WCU Biomodulation Major, Department of Agricultural Biotechnology and Center for Food and Bioconvergence, Seoul National University, Seoul 151-921, Republic of Korea ⁴ Department of Bioscience and Biotechnology, Konkuk University, Seoul 143-701, Republic of Korea
16-007	P-05	Solid phase methylation assistant analysis of ginsenosides and oligosaccharides by using direct analysis in real time mass spectrometry	Wenlong Liu ¹ , Shuying Liu ^{1*}	¹ Jilin Ginseng Academy, Changchun University of Chinese Medicine, 1035 Boshuo Road, Changchun, Jilin, 130117, China.
16-008	P-06	Characterization of UDP-glycosyltransferases and metabolic engineering of <i>Saccharomyces cerevisiae</i> to produce bioactive rare ginsenosides	Wei Wei ¹ , Pingping Wang ¹ , Xing Yan ¹ , Yongjun Wei ¹ , Qunfang Liu ² , Chengshuai Yang ¹ , Jianmin Yue ² , Guoping Zhao ¹ , Zhihua Zhou ^{1*}	1. CAS-Key Laboratory of Synthetic Biology, Institute of Plant Physiology and Ecology, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai 200032, China; 2. State Key Laboratory of Drug Research, Institute of Materia Medica, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai 201203, China
16-010	P-07	Molecular characterization of MYB transcription factor genes from <i>Panax</i> ginseng	Jun-Young Choi ¹ , Yu-Jin Kim ^{1*} , Jeniffer Silva ² , Shadi Rahimi ² , Ragavendran Abbai ² , Davaajargal Myagmarjav ² , Woo Saeng Kwon ¹ , Deok-Chun Yang ^{1 2*}	¹ Department of Oriental Medicinal Biotechnology, Kyung Hee University College of Life Science, Yongin, Korea ² Graduate School of Biotechnology and Ginseng Bank, Kyung Hee University College of Life Science, Yongin, Korea
16-011	P-08	<i>Paralcaligenes ginsengisoli</i> sp. nov., isolated from ginseng cultivated soil	Jong-Pyo Kang ¹ , Ngoc-Lan Nguyen ¹ , Yeon-Ju Kim ¹ , Van-An Hoang ¹ , Kwi-Sik Bae ¹ , Deok-Chun Yang ^{1*}	¹ Department of Oriental Medicinal Biotechnology, Kyung Hee University, Seocheon-dong, Giheung-gu, Yongin-si, Gyeonggi-do 446-701, Republic of Korea Gyeonggi-do 446-701, Republic of Korea

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16-012	P-09	Effects of Korean red ginseng berry on skin anti-pigmentation and anti-aging by FoxO3a activation	Juewon Kim 1, 2, Si Young Cho 1, Su Hwan Kim 1, Donghyun Cho 1, Sunmi Kim 1, Chan-Woong Park 1, Dae Bang Seo 1, *, Song Seok Shin 1, *	1R&D unit, AmorePacific Corporation, Yongin-si, Gyeonggi-do 446-729, Republic of Korea 2Department of Integrated Biosciences, University of Tokyo, Chiba 277-8562, Japan
16-013	P-10	New dammarane aglycons from Panax notoginseng (Burk) F.H.Chen and and their cytotoxic activities	Jia Qing Cao, Guang Yue Su, Qian Li, Yu Qing Zhao*	School of Functional Food and Wine, Shenyang Pharmaceutical University, People's Republic of China.
16-014	P-11	Rg3 as a Novel Inhibitor of Autophagy in Hepatocellular Carcinoma	Jung Hee Park ¹ , Kyung Hee Jung ¹ , Mi kwon Son ¹ , Soo Jung Kim ¹ , Marufa Rumman ¹ , Zhenghuan Fang ¹ , Hong Hua Yan ¹ , Yeowool Kang ¹ , Juyoung Kim ¹ , Boreum Han ¹ , Kim YS ² , Soon-Sun Hong ^{1*}	¹ Department of Drug Development, College of Medicine, Inha University, 3-ga, Sinheung-dong, Jung-gu, Incheon 400-712, Republic of Korea ² 1] Department of Biochemistry, Ajou University School of Medicine, Suwon 443-380, Korea [2] Department of Biomedical Sciences, Graduate School, Ajou University, Suwon 443-380, Korea.
16-016	P-12	The first draft genome sequence of <i>Panax ginseng</i>	Sang-Choon Lee ¹ , Murukarthick Jayakodi ¹ , Beom-Soon Choi ² , Nam-Hoon Kim ¹ , Junki Lee ¹ , Kyunghee Kim ^{1,2} , Woojong Jang ¹ , Nomar Espinosa Waminal ¹ , Yun Sun Lee ¹ , Hyun-Seung Park ¹ , Ho Jun Joh ¹ , Jonghoon Lee ¹ , Jee Young Park ¹ , Sampath Perumal ¹ , Nguyen Binh ¹ , Hana Lee ¹ , Jinkyung Kim ¹ , Inseo Kim ¹ , Jun-Gyo In ³ , Young Chang Kim ⁴ , Hyun Hee Kim ⁵ , Yeisoo Yu ² , Tae-Jin Yang ^{1*}	¹ Department of Plant Science, Plant Genomics and Breeding Institute, and Research Institute of Agriculture and Life Sciences, College of Agriculture and Life Sciences, Seoul National University, Seoul, Korea ² Phyzen Genome Institute, Seongnam, Korea ³ Natural Resources Research Institute, Korea Ginseng Corporation, Daejeon, Korea ⁴ Department of Herbal Crop Research, NIHHS, RDA, Eumseong, Korea ⁵ Plant Biotechnology Institute, Department of Life Science, Sahmyook University, Seoul, Korea
16-017	P-13	Oral administration of red ginseng powder fermented with probiotic alleviates the severity of dextran-sulfate sodium-induced colitis in a mouse model	Sun-Hee Jang ¹ , Jisang Park ² , Kyung-Min Choi ³ , Jeong-Dan Cha ³ , Kwang Yeop Jahng ⁴ , Yong-Suk Jang ^{12*}	¹ Department of Molecular Biology and the Institute for Molecular Biology and Genetics, Chonbuk National University, Jeonju, Korea ² Department of Bioactive Material Sciences and Research Center of Bioactive Materials, Chonbuk National University, Jeonju, Korea ³ Department of Efficacy Research, Institute of Jinan Red Ginseng, Jinan, Korea ⁴ Department of Life Sciences, Chonbuk National University, Jeonju, Korea
16-018	P-14	Isolation and characterization of new ginsenosides from red ginseng	Jeong-Sook Park ¹ , Chang-Seon Myung ¹ , Ju-Young Jung ² , MinKyun Na ^{1*}	¹ College of Pharmacy, Chungnam National University, Daejeon 34131, Republic of Korea ² College of Veterinary Medicine, Chungnam National University, Daejeon 34131, Republic of Korea

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16-020	P-15	Building New Marketing System for the Korea Ginseng Industry: GAP, Traceability, and RFID	Byung Ok Im ^{1*} , Soon Hyun Cho ² , Byung Wook Yang ³ , Young Tae Hahm ³ , Suk Soon Yoon ⁴ , Sung Kwon Ko ⁴	¹ Department of Natural Medicine Resources, Semyung University, Jecheon 390-711, Korea ² Department of Pharmacy & Food, Daewon University College, Jecheon, 390-702, Korea ³ Systems of biotechnology, Chung-Ang University, Ansong 456-756, Korea ⁴ Department of Oriental Medical Food & Nutrition, Semyung University, Jecheon 390-711, Korea
16-021	P-16	Simultaneous determination of ginsenosides in radix and rhizome of wild Panax species using evaporative light scattering detector and quadrupole time-of-flight mass spectrometry	Gwang Jin Lee ¹ , Nozimakhonim Yunusova ¹ , Jae Young Kim ¹ , Shao-Qing Cai ² , Xiang-Lan Piao ³ , Jeong Hill Park ¹ , Sung Won Kwon ^{1*}	¹ College of Pharmacy, Seoul National University, Seoul 08826, Korea ² School of Pharmaceutical Science, Peking University, Beijing 100191, China ³ Minzu University of China, Beijing 100081, China
16-022	P-17	A rapid classification method of four Panax species using direct infusion-tandem mass spectrometry	Sanghan Choo ¹ , Shinae Kim ¹ , Dong Kyu Lim ¹ , Byong-kyu Shin ¹ , Tae-Jin Yang ² , Johan Lim ³ , Jeong Hill Park ¹ , Sung Won Kwon ^{1*}	¹ College of Pharmacy, Seoul National University, Seoul 08826, Korea ² College of Agriculture and Life Sciences, Seoul National University, Seoul 08826, Korea ³ Department of Statistics, Seoul National University, Seoul 08826, Korea
16-023	P-18	Metabolomics study on the longevity of Panax ginseng seeds using GC-MS	Jung Eun Min ¹ , Ji Yeon Hong ¹ , Dong-Kyu Lee ¹ , Sung Won Kwon ¹ , Jeong Hill Park ^{1*}	¹ College of Pharmacy, Seoul National University, Seoul, Korea
16-024	P-19	Facilitation of doxorubicin-induced mitochondrial cell death by Protopanaxadiols, metabolites of ginseng saponins	Eunsoo Kim ¹ , Seung-Wook Ryu ^{2,3*} , Kyungsun Choi ¹ , Chulhee Choi ^{1,2,3*}	¹ Department of Bio and Brain Engineering, ² KAIST Institute for the BioCentury, Korea Advanced Institute of Science and Technology(KAIST), Daejeon, Republic of Korea ³ Cellex Life Sciences Inc., Daejeon, Republic of Korea
16-025	P-20	Protopanaxatirol type ginsenoside Re promotes cyclic growth of hair follicles via inhibiting transforming growth factor β signaling cascades	Zheng Li ¹ , Seung-Wook Ryu ^{2,3*} , Jungsul Lee ^{3,4} , Kyungsun Choi ⁴ , Sunchang Kim ^{1,2,5} , Chulhee Choi ^{2,3,4*}	¹ Intelligent synthetic biology center, KAIST, Daejeon, Republic of Korea ² KI for Biocentury, KAIST, Daejeon, Republic of Korea ³ Cellex Life Sciences Inc., Daejeon, Republic of Korea ⁴ Department of Bio and Brain Engineering, KAIST, Daejeon, Republic of Korea ⁵ Department of Biological Sciences, KAIST, Daejeon, Republic of Korea
16-027	P-21	Gold nanoparticle from Panax ginseng leaves Suppresses TARC/CCL17 and MDC/CCL22 production via downregulation of NF- κ B and STAT1 activation in keratinocytes and macrophages	Sungeun Ahn ¹ , Veronica Castro Aceituno ¹ , Shakina Yesmin Simu ² , Zuly Elizabeth Jimenez Perez ² , Priyanka Singh ² , Deok-Chun Yang ^{1,2*}	¹ Department of Oriental Medicinal Biotechnology, College of Life Sciences, Kyung Hee University, Yongin, 446-701, Republic of Korea. ² Graduate School of Biotechnology and Ginseng Bank, College of Life Sciences, Kyung Hee University, Yongin, 446-701, Republic of Korea.

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16-028	P-22	Anticancer activity of silver nanoparticles from Panax ginseng leaves on human cancer cells.	Verónica Castro Aceituno ¹ , Sungeun Ahn ¹ , Shakina Yesmin Simu ² , Priyanka Singh ² , Zuly Elizabeth Jiménez Pérez ² , Dong-Hyun Kim ¹ and Deok-Chun Yang ^{1,2*}	1 Department of Oriental Medicinal Biotechnology, College of Life Sciences, Kyung Hee University, Yongin, 446-701, Republic of Korea. 2 Graduate School of Biotechnology and Ginseng Bank, College of Life Sciences, Kyung Hee University, Yongin, 446-701, Republic of Korea.
16-029	P-23	Cloning of a cytosolic ascorbate peroxidase gene from Panax ginseng enhanced salt tolerance by overexpressing in Arabidopsis thaliana	Johan Sukweenadhi ^{1,3} , Yu-Jin Kim ^{1*} , Jennifer Silva ¹ , Davaajargal Myagmarjav ¹ , Shadi Rahimi ¹ , Woo Saeng Kwon ¹ and Deok-Chun Yang ^{1,2*}	1Graduate School of Biotechnology, College of Life Science, Kyung Hee University, Yongin, 446- 701; 2 Department of Oriental Medicinal Biotechnology, College of Life Science, Kyung Hee University, Yongin 446-701, Korea;3Faculty of Biotechnology, University of Surabaya (UBAYA), Raya Kalirungkut, Surabaya, Indonesia
16-030	P-24	DEVELOPMENT OF SNP MARKER FOR SPECIFIC AUTHENTICATION OF KOREAN GINSENG'S CULTIVAR G1	Padmanaban Mohanan ³ , Dong Uk Yang ¹ , Min-Kyeong Kim ² , Ramya Mathiyalagan ³ , Woo-Saeng Kwon ¹ , Deok Chun Yang [*]	1Department of Oriental Medicinal Biotechnology, College of Life Science, Kyung Hee University, Yongin, Korea 2Herbal Medicine Research Division, National Institute of Food and Drug Safety Evaluation, Ministry of Food and Drug Safety, Osong, Cheongju, Korea 3Graduate School of Biotechnology and Ginseng Bank, College of Life Sciences, Kyung Hee University, Yongin, Korea
16-031	P-25	Panax ginseng C.A.Meyer prevents meningitis from Streptococcus pneumoniae via upregulation of estrogen receptor β	Seung Yeop Lee, Si On Lee, Dong-Kwon Lee [*]	School of Pharmacy, Sungkyunkwan University, Su-Won, Korea
16-033	P-26	Korean red ginseng Inhibits hypoxia-induced cyclooxygenase-2 through peroxisome proliferator-activated receptor γ	Heewon Song, YoungJoo Lee [*]	Department of Bioscience, Sejong University, Seoul, Korea
16-034	P-27	The effects of Ginsenoside Rg3 in differentiating and differentiated C2C12 cells through AMPK-mediated signaling pathway	Young-Rang Kim ¹ , Ju-Seok Kim ² , Jong-Soon Choi ³	aBiological Disaster Analysis Team, Korea Basic Science Institute, Daejeon 305-806, Korea bGRAST, Chungnam National University, Daejeon 305-764, Korea c, UST, Biological Analysis Department Daejeon 305-350, Korea
16-035	P-28	The Comparative Effects of Ginseng Extracts or Aroma Essential Oils Inhalation or Music Listening on the Stress Response after Exposure to Noise	Myung-Haeng Hur ^{1*} , Wonjong Kim ² , Joomi Ahn ² , Ik-Lyul Bae ³	1College of Nursing, Eulji University, Daejeon, Korea 2Eulji University Hospital, Daejeon, Korea 3Daejeon Institute of Science and Technology, Daejeon, Korea
16-037	P-29	The protective effects of korean red ginseng on the progression of non-alcoholic steatohepatitis in mice	Hyuneui Jeong, Myeon Sik Yang, Jong Won Kim, Jong-Hoon Kim, Chae Woong Lim, Bumseok Kim [*]	Biosafety Research Institute and Laboratory of Pathology (BK21 Plus Program), College of Veterinary Medicine, Chonbuk National University, Iksan, Republic of Korea

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16-040	P-31	The effect of Korean red ginseng in type 2 diabetic complications: the involvement of vascular reactivity	Paulrayer Antonisamy ¹ , Aravinthan Adithan ¹ , Sharmila Juidth ¹ , Thangavelu Muthukumar ¹ , Sungjae Yang ² , Jae Youl Cho ² , Chul Park ¹ , BumSeok Kim ¹ , Nam Soo Kim ¹ , Jong-Hoon Kim ^{1,*}	¹ College of Veterinary Medicine, BK21PLUS project, Chonbuk National University, 54596, 79 Gobong-ro, Iksan-city, Jeollabuk-Do, Republic of Korea ² Department of Genetic Engineering, Sungkyunkwan University, Suwon 440-746, Republic of Korea
16-041	P-32	Pectinase-modified Red Ginseng(GS-E3D) Attenuates DNCB-Induced Atopic Dermatitis in BALB/c Mice	Hwan Lee, Myeong Hwan Oh, Young Sik Park, Jong Dae Park, Mi Kyung Pyo [*]	International Ginseng & Herb Research Institute, Chungnam, 312-804, Korea
16-042	P-33	Korean red ginseng ameliorate the change of genetic expression in diabetic complications	Aravinthan Adithan ¹ , Paulrayer Antonisamy ¹ , Sharmila Juidth ¹ , Thangavelu Muthukumar ¹ , Sungjae Yang ² , Jae Youl Cho ² , Chul Park ¹ , BumSeok Kim ¹ , Nam Soo Kim ¹ , Jong-Hoon Kim ^{1,*}	¹ College of Veterinary Medicine, BK21PLUS project, Chonbuk National University, 54596, 79 Gobong-ro, Iksan-city, Jeollabuk-Do, Republic of Korea ² Department of Genetic Engineering, Sungkyunkwan University, Suwon 440-746, Republic of Korea
16-043	P-34	Ginseng saponins improve ischemic heart dysfunction via protection of hemodynamic and ventricular function	Paulrayer Antonisamy ¹ , Aravinthan Adithan ¹ , Sharmila Juidth ¹ , Ji Hye Kim ² , Jae Youl Cho ² , Chul Park ¹ , Nam Soo Kim ¹ , Jong-Hoon Kim ^{1,*}	¹ College of Veterinary Medicine, BK21PLUS project, Chonbuk National University, 54596, 79 Gobong-ro, Iksan-city, Jeollabuk-Do, Republic of Korea ² Department of Genetic Engineering, Sungkyunkwan University, Suwon 440-746, Republic of Korea
16-044	P-35	Improvement of Cardiac Function by Ginsenoside Rb1 Against Homocysteine-Induced Damage	Aravinthan Adithan ¹ , Paulrayer Antonisamy ¹ , Sharmila Juidth ¹ , Thangavelu Muthukumar ¹ , Sungjae Yang ² , Jae Youl Cho ² , Chul Park ¹ , BumSeok Kim ¹ , Nam Soo Kim ¹ , Jong-Hoon Kim ^{1,*}	¹ College of Veterinary Medicine, BK21PLUS project, Chonbuk National University, 54596, 79 Gobong-ro, Iksan-city, Jeollabuk-Do, Republic of Korea ² Department of Genetic Engineering, Sungkyunkwan University, Suwon 440-746, Republic of Korea
16-045	P-36	Protection of Cardiac Function by Ginsenoside-Re on Ischemia/Reperfusion Injury	Sharmila Juidth ¹ , Aravinthan Adithan ¹ , Paulrayer Antonisamy ¹ , Eunji Kim ² , Jae Youl Cho ² , Chul Park ¹ , Nam Soo Kim ¹ , Jong-Hoon Kim ^{1,*}	¹ College of Veterinary Medicine, BK21PLUS project, Chonbuk National University, 54596, 79 Gobong-ro, Iksan-city, Jeollabuk-Do, Republic of Korea ² Department of Genetic Engineering, Sungkyunkwan University, Suwon 440-746, Republic of Korea

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16-047	P-38	Potential activity of Korean Red Ginseng on Cardiac Dysfunction induced by Doxorubicin	Aravinthan Adithan ¹ , Paulrayer Antonisamy ¹ , Sharmila Juidth ¹ , Thangavelu Muthukumar ¹ , Sungjae Yang ² , Jae Youl Cho ² , Chul Park ¹ , BumSeok Kim ¹ , Chang-Won Kang ¹ , Nam Soo Kim ¹ , Jong-Hoon Kim ^{1,*}	¹ College of Veterinary Medicine, BK21PLUS project, Chonbuk National University, 54596, 79 Gobong-ro, Iksan-city, Jeollabuk-Do, Republic of Korea ² Department of Genetic Engineering, Sungkyunkwan University, Suwon 440-746, Republic of Korea
16-048	P-39	Cardioprotective effects of Panax ginseng, panaxadiol and panaxatriol in isolated rat heart	Aravinthan Adithan ¹ , Paulrayer Antonisamy ¹ , Sharmila Juidth ¹ , Thangavelu Muthukumar ¹ , Sungjae Yang ² , Jae Youl Cho ² , Chul Park ¹ , BumSeok Kim ¹ , Chang-Won Kang ¹ , Nam Soo Kim ¹ , Jong-Hoon Kim ^{1,*}	¹ College of Veterinary Medicine, BK21PLUS project, Chonbuk National University, 54596, 79 Gobong-ro, Iksan-city, Jeollabuk-Do, Republic of Korea ² Department of Genetic Engineering, Sungkyunkwan University, Suwon 440-746, Republic of Korea
16-049	P-40	Cardioprotection by Ginsenoside-Re on Ischemia/Reperfusion Injury of Isolated Rat Hearts	Aravinthan Adithan ¹ , Paulrayer Antonisamy ¹ , Sharmila Juidth ¹ , Thangavelu Muthukumar ¹ , Sungjae Yang ² , Jae Youl Cho ² , Chul Park ¹ , BumSeok Kim ¹ , Chang-Won Kang ¹ , Nam Soo Kim ¹ , Jong-Hoon Kim ^{1,*}	¹ College of Veterinary Medicine, BK21PLUS project, Chonbuk National University, 54596, 79 Gobong-ro, Iksan-city, Jeollabuk-Do, Republic of Korea ² Department of Genetic Engineering, Sungkyunkwan University, Suwon 440-746, Republic of Korea
16-050	P-41	The effect of Korean red ginseng in porcine heart via a nitric oxide related mechanism	Aravinthan Adithan ¹ , Paulrayer Antonisamy ¹ , Sharmila Juidth ¹ , Thangavelu Muthukumar ¹ , Sungjae Yang ² , Jae Youl Cho ² , Chul Park ¹ , BumSeok Kim ¹ , Chang-Won Kang ¹ , Nam Soo Kim ¹ , Jong-Hoon Kim ^{1,*}	¹ College of Veterinary Medicine, BK21PLUS project, Chonbuk National University, 54596, 79 Gobong-ro, Iksan-city, Jeollabuk-Do, Republic of Korea ² Department of Genetic Engineering, Sungkyunkwan University, Suwon 440-746, Republic of Korea
16-051	P-42	Comparative analysis of whole genome sequences of five Panax species reveal dramatic genome size expansion via explosion of Del1 retrotransposon	Junki Lee ¹ , Nomar Espinosa Waminal ¹ , Sang-Choon Lee ¹ , Sampath Perumal ¹ , Nguyen Binh ¹ and Tae-Jin Yang ^{1*}	¹ Department of Plant Science, Plant Genomics and Breeding Institute, and Research Institute of Agriculture and Life Sciences, College of Agriculture and Life Sciences, Seoul National University, Seoul, Korea
16-052	P-43	Effects of Flooding and Fumigation on Control of ginseng root rot and Ginsenoside Content in Ginseng Replanting Soil	Sun Ick Kim ^{1*} , Hyun Ho Kim ¹ , Seung Ho Han ¹ , Bong Jae Seong ¹ , Moo Geun Jee ¹ , Ka Soon Lee ¹ , Hong Gi Kim ²	¹ Ginseng & Medicinal Plant Research Institute, CNARES ² Department of Applied Biology, Chungnam National University, Daejeon 305-764, Korea
16-053	P-44	Quality Of Ginseng According To Jeju Soil Type.	Dong Joo Oh ^{1*} , Ju Yoo ¹ , Min Seuk Lee ¹ , Jeong Dae Lee ¹ , Gun Hee Ko ¹ Dong hyun Kim ² , CHENGYI ZHANG ²	¹ Jangwon Co. Ltd., Jeju, Korea ² AMOREOACIFIC R&D Center, 1920 Yonggu-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Korea
16-054	P-45	The Effect Of CO2 Concentration On Ginseng Photosynthesis And Physiological Traits.	Dong Joo Oh ^{1*}	¹ Jangwon Co. Ltd., Jeju, Korea

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16-056	P-47	Phylogenetic Relationship Analysis of Wild-cultivated Panax ginseng C. A. Meyer Using SSR Markers	Jin Su Gil, Se Rim Kim, Chan Moon Chung, Yi Lee*	Department of Industrial Plant Science & Technology, Chungbuk National University, Cheongju, 362-763, South Korea
16-057	P-48	Physicochemical Properties and Ginseng Seedling Characters Grown at Artificial Medium Mixed with Fermented Compost	Kwang-Jae Lee*, Haet-Nim Jeong, Young-Moon Mo, Jeong-Su Jeong, Se-Jong Lee, Sung-Il Kim	Ginseng & Medicinal Plants Research Institute, Gangwon ARES, Cheorwon, Korea
16-058	P-49	Development of practical differentiating method between cultivar Gumpoong and landrace Hwangsook in Panax ginseng species.	Ho Jun Joh, Nam-Hoon Kim, Tae-Jin Yang ¹	¹ Department of Plant Science, Plant Genomics and Breeding Institute, and Research Institute of Agriculture and Life Sciences, College of Agriculture and Life Sciences, Seoul National University, Seoul, 151-921, Korea
16-059	P-50	Stepwise PLS-DA in combination with UPLC-QTOFMS reveals the possible correlation between phylogenetic divergence and alteration in secondary metabolites.	Hyung Min Kim ¹ , Huy Truong Nguyen ¹ , Dong-Kyu Lee ¹ , Won Jun Lee ¹ , GwangJin Lee ¹ , Minh Duc Nguyen ² , Jeong Hill Park ^{1,3} , Jeongmi Lee ⁴ , Sung Won Kwon ^{1,3*}	¹ College of Pharmacy, Seoul National University, Seoul 08826, South Korea ² Faculty of Pharmacy, Ton Duc Thang University, Ho Chi Minh City, Vietnam ³ College of Pharmacy and Research Institute of Pharmaceutical Sciences, Seoul National University, Seoul 08826, South Korea ⁴ School of Pharmacy, Sungkyunkwan University, Suwon 16419, South Korea
16-060	P-51	Photosynthesis and growth characteristics of 3 years old ginseng(Panax ginseng C.A. Meyer) by different shading materials of the greenhouse in the northern area of Gangwon, Korea.	Haet-Nim Jeong ^{1*} , Kwang-Jae Lee ¹ , Jeong-Su Jeong ¹ , Young_Mun Mo ¹ , Se-Jong Lee ¹ , Sang-Gyu Lee ¹ , Seok-Won Yun ¹ , Jin-Suk Kweon ¹ , Sung-Il Kim ¹ , Ki-Bum Kweon ²	¹ Ginseng & Medicinal Plants Research Institute, Gangwon ARES, Cheorwon, Gangwon, Korea ² Department of Herbal Crop Research, NIHHS, RDA, Eumsung, Chungbuk, Korea
16-061	P-52	Production of sprout ginseng from one year old seedling in plant factory	Hong Soo Doo ^{*1} , Min Seon Baek ¹ , Tae Ho Kwon ² , Jae Young Park ³ and Chang Hee Hong ³	¹ Jeonju Agro-Biomaterials Institute, Jeonju 54810, Korea ² Natural Biomaterials Co., Wanju 55322, Korea ³ LED Agri-bio Fusion Technology Research Center, Jeonbuk National University, Iksan 54596, Korea
16-062	P-53	Relationship between the Sample Number in the Group and Relative Standard Deviation(RSD)	Kyu-Il Kim*, Sangmin Jang, Gwi Deok Kim, Sul Ha Lee, Jae In Lee, Hyo Bin Oh	Institute of Jinan Red Ginseng, Jinan, South Korea
16-063	P-54	Photomorphogenesis and ginsenoside contents according to LED wavelength for the cultivation of sprout ginseng in plant factory	Hong Soo Doo ^{*1} , Min Seon Baek ¹ , Tae Ho Kwon ² , Jae Young Park ³ and Chang Hee Hong ³	¹ Jeonju Agro-Biomaterials Institute, Jeonju 54810, Korea ² Natural Biomaterials Co., Wanju 55322, Korea ³ LED Agri-bio Fusion Technology Research Center, Jeonbuk National University, Iksan 54596, Korea

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16-064	P-55	Photomorphogenesis and ginsenoside contents according to LED modules for the cultivation of sprout ginseng in plant factory	Hong Soo Doo ^{*1} , Min Seon Baek ¹ , Tae Ho Kwon ² , Jae Young Park ³ and Chang Hee Hong ³	¹ Jeonju Agro-Biomaterials Institute, Jeonju 54810, Korea ² Natural Biomaterials Co., Wanju 55322, Korea ³ LED Agri-bio Fusion Technology Research Center, Jeonbuk National University, Iksan 54596, Korea
16-065	P-56	Black ginseng attenuates LPS-induced endothelial cell inflammation by suppression of AMPK and NF-κB signaling in human umbilical vein endothelial cells	Seung-Mi Hwang, Seon-Mi Ko, Kyu-II Kim, Eun-Sil Ko, Jeong-Dan Cha	Institute of Jinan Red Ginseng, Jinan, South Korea
16-066	P-57	Red ginseng inhibits LPS-induced pro-inflammatory cytokines through the activation of NF-κB pathway in RAW 264.7 macrophages	Jeong-Dan Cha, Eun-Sil Ko, Seung-Mi Hwang, Seon-Mi Ko, Kyung-Min Choi	Institute of Jinan Red Ginseng, Jinan, South Korea
16-068	P-58	Protective effects of pectinase-treated Panax ginseng (GINST) extract on immobilization - induced testicular stress in experimental rats	Kyu Min Cha ¹ , Spandana Rajendra Kopalli ¹ , Seock Yeon Hwang ² , Ji Hoon Ryu ¹ , Sang Ho Lee ¹ and Si Kwan Kim ^{1,*}	¹ Department of Life Science, College of Biomedical & Health Science, Konkuk University, Chungju 380-701, Republic of Korea ² Department of Biomedical Laboratory Science, College of Applied Science and Industry, Daejeon University, Daejeon 300-716, Republic of Korea
16-069	P-59	Chromosomal mosaicism of wild ginseng plant (Far East of Russia)	Yulia A Khrolenko, Tatiana Y Gorpenchenko, Tamara I Muzarok, Yuri N Zhuravlev	Institute of Biology and Soil Science, Far Eastern Branch of Russian Academy of Sciences, Vladivostok, Russia
16-070	P-60	GS-KG9 and GS-E3D relieves neuropathic pain and prevents cell death of hippocampal neuron in STZ-induced diabetic rats	Go Woon Kim ¹ , Hee Kyung Jo ¹ , Kyong Ju Jeong ¹ , Jee Youn Lee ² , Chan Sol Park ² , Yong Rim Ryu ² , Hae Young Choi ² , Tae Young Yune ²⁻³ , Sung Hyun Chung ^{1*}	¹ Department of Pharmacology and Clinical Pharmacy, College of Pharmacy, Kyung Hee University, Seoul, Korea ² Age-Related and Brain Diseases Research Center, School of Medicine, Kyung Hee University, Seoul, Korea ³ Department of Biochemistry and Molecular Biology, School of Medicine, Kyung Hee University, Seoul, Korea
16-071	P-61	Ginseng flower buds extract prevents hepatic lipid accumulation in vitro and in vivo	Go Woon Kim ¹ , Hee Kyung Jo ¹ , Kyong Ju Jeong ¹ , Sung Hyun Chung ^{1*}	¹ Department of Pharmacology and Clinical Pharmacy, College of Pharmacy, Kyung Hee University, Seoul, Korea
16-072	P-62	Protective Effect of Korean Red Ginseng on Integrity of Blood-Brain Barrier Following Neural Damages	Min Jung Lee ^{1,2} , Minhee Jang ¹ , Jong Hee Choi ^{1,2} , Ik-Hyun Cho ^{1,2,3}	¹ Department of Convergence Medical Science, ² Brain Korea 21 Plus Program, ³ Institute of Korean Medicine, College of Korean Medicine, Kyung Hee University, Seoul 130-701, Republic of Korea

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16-073	P-63	Korean red ginseng attenuates testicular oxidative stress induced by immobilization in experimental rats.	Kyu Min Cha ¹ , Spandana Rajendra Kopalli ¹ , Seock Yeon Hwang ² , Ji Hoon Ryu ¹ , Min Sik Jeong ¹ and Si Kwan Kim ^{1,*}	¹ Department of Life Science, College of Biomedical & Health Science, Konkuk University, Chungju 380-701, Republic of Korea ² Department of Biomedical Laboratory Science, College of Applied Science and Industry, Daejeon University, Daejeon 300-716, Republic of Korea
16-074	P-64	Protective effects of malonyl-ginsenoside-rich extract of Korean White ginseng against diabetic hindlimb ischemia in mice model	Hee Kyung Jo ¹ , Go Woon Kim ¹ , Kyong Ju Jeong ¹ , Sung Hyun Chung ^{1*}	¹ Department of Pharmacology and Clinical Pharmacy, College of Pharmacy, Kyung Hee University, Seoul, Korea
16-075	P-65	In vitro and in vivo evaluation of lipid-lowering effects of ginseng seed oil	Go Woon Kim ¹ , Hee Kyung Jo ¹ , Kyong Ju Jeong ¹ , Sung Hyun Chung ^{1*}	¹ Department of Pharmacology and Clinical Pharmacy, College of Pharmacy, Kyung Hee University, Seoul, Korea
16-076	P-66	The effect of Cheon-Nok-Sam containing red ginseng extract and antler extract on blood glucose of impaired glucose tolerance or diabetes mellitus	Jong-Sik Kim ^{1*} , Jong-Tae Lee ¹ , Seung-Hwan Paek ¹ , Jun-Bae Kim ¹ , Sang-Min Lee ¹ , Chung-Ho Kim ¹ , Chang-Jae Lee ¹ , Na-Mi Kim ¹	¹ The Korean Ginseng Research Institute, Korea Ginseng Co., Daejeon 305-805, Korea
16-078	P-67	Fermented red ginseng ameliorates 1-chloro-2,4-dinitrobenzene-induced atopic dermatitis in mice	Eun-Hwa Sohn ¹ , Hyun Jung Koo ² , Seon-A Jang ³ , Jin Woo Lee ¹ , Yuna Park ¹ , Dong Soo Sim ¹ , Se Chan Kang ^{3*}	¹ Department of Herbal Medicine Resource, Kangwon National University, Samcheok, Republic of Korea ² Department of Medicinal & Industrial Crops, Korea National College of Agriculture and Fisheries, Jeonju, Jeollabuk-do, 560-500, Republic of Korea ³ Department of Oriental Medicinal Material & Processing, College of Life Sciences, Kyung Hee University, Yongin, Gyeonggi-do, Republic of Korea
16-079	P-68	Study on the Characteristics of Ginsenosides Metabolism in <i>Pediococcus pentosaceus</i> LY-011 Isolated from Kimchi	Eun Young Hwang ¹ , Hye-ri Shin ¹ , Chang-WonCho ¹ , Kyungtaek Kim ¹ , Hee-Do Hong ¹ , Mi Jang ¹ , Young-Chul Lee ² , Young Kyoung Rhee ^{1*}	¹ Traditional Food Research Center, Korea Food Research Institute, Seongnam-si Gyeonggi-do, Korea ² Korea Food Research Institute, Seongnam-si Gyeonggi-do, Korea

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16-082	P-69	Comparative analysis of the primary metabolite pathway of adventitious roots of <i>Panax ginseng</i>	Hyun-Seung Park ^{1†} , Yun Sun Lee ^{1†} , Dong-Kyu Lee ^{2†} , Murukarthick Jayakodi ¹ , Nam-Hoon Kim ¹ , Sang-Choon Lee ¹ , Atreyee Kundu ^{1,3} , Dong-Yup Lee ^{4,5} , Young Chang Kim ⁶ , Jun Gyo In ⁷ , Sung Won Kwon ^{2,*} , Tae-Jin Yang ^{1,8,*}	¹ Department of Plant Science, Plant Genomics and Breeding Institute, Research Institute of Agriculture and Life Sciences, College of Agriculture and Life Sciences, Seoul National University, Seoul, Republic of Korea ² College of Pharmacy and Research Institute of Pharmaceutical Sciences, Seoul National University, Seoul, Republic of Korea ³ Department of Biological Sciences, Presidency University, Kolkata, West Bengal, India ⁴ Bioprocessing Technology Institute, A*STAR (Agency for Science, Technology and Research), Centros, Singapore ⁵ Department of Chemical and Biomolecular Engineering, Synthetic Biology Research Consortium, National University of Singapore, Singapore ⁶ Ginseng Research Division, National Institute of Horticultural and Herbal Science, Rural Development Administration, Eumseong, Republic of Korea ⁷ Ginseng Resources Research Laboratory, R&D Headquarters, Korea Ginseng Corporation, Daejeon, Republic of Korea ⁸ Crop Biotechnology Institute/GreenBio Science and Technology, Seoul National University, Pyeongchang, Republic of Korea
16-083	P-70	In silico approach for prediction of new molecular target of ginseng in diabetes.	Kyong Ju Jeong ¹ , Go Woon Kim ¹ , Hee Kyung Jo ¹ , Sung Hyun Chung ^{1*}	¹ Department of Pharmacology and Clinical Pharmacy, College of Pharmacy, Kyung Hee University, Seoul, Korea
16-084	P-71	Inhibitory Effect of Korean Red Ginseng Crude Saponin on COPD Induced by Cigarette Smoke Condensate and Lipopolysaccharide in Mice	Seung-Min Lee ¹ , Heung-Bin Lim ^{1*}	¹ Department of Industrial Plant Science & Technology, Chungbuk National University, Chungju, Korea
16-085	P-72	Ginseng genome database: An open-access platform for mining genomic resources of <i>Panax ginseng</i>	Murukarthick Jayakodi ¹ , Sang-Choon Lee ¹ , Beom-Soon Choi ³ , Nam-Hoon Kim ¹ , Junki Lee ¹ , and Tae-Jin Yang ^{1,2*}	¹ Department of Plant Science, Plant Genomics and Breeding Institute, Research Institute for Agriculture and Life Sciences, College of Agriculture and Life Sciences, Seoul National University, Seoul, 151-921, Republic of Korea ² Crop Biotechnology Institute/GreenBio Science and Technology, Seoul National University, Pyeongchang 232-916, Republic of Korea. ³ Phyzen Genome Institute, 501-1, Gwanak Century Tower, Kwanak-gu, Seoul, 151-836, Republic of Korea.

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16-087	P-73	Enhancing the auditory impairment efficacy of ginsenoside compound K by conjugation of beta-cyclodextrin in animal model	Keonwoo kim ^{1,2} , Youn Hee Nam ^{1,4} , Isabel Rodriguez ^{1,2} , Sang Ho Woo ^{1,2} , Yeong Ro Lee ^{1,2} , Seo Yule Jeong ^{1,2} , Rodrigo Castañeda ^{1,2} , Min Gun Ji ^{2,4} , Eun Mi Yang ^{1,2} , Bin Na Hong ^{2,3} , Tong Ho Kang ^{1,2*}	¹ Graduate School of Biotechnology, Kyung Hee University, Gyeonggi, Republic of Korea ² College of Life Sciences, Kyung Hee University, Gyeonggi, Republic of Korea ³ Department of Audiology, Nambu University, Gwangju, Republic of Korea ⁴ Enbiotech Co. Ltd., Gyeonggi, Republic of Korea
16-088	P-74	Conjugation of compound K increase anti-diabetic efficacy and reduce toxicity on zebrafish	Youn Hee Nam ^{1,4} , Isabel Rodriguez ^{1,2} , Sang Ho Woo ^{1,2} , Keonwoo kim ^{1,2} , Yeong Ro Lee ^{1,2} , Seo Yule Jeong ^{1,2} , Rodrigo Castañeda ^{1,2} , Min Gun Ji ^{2,4} , Eun Mi Yang ^{1,2} , Bin Na Hong ^{2,3} , Tong Ho Kang ^{1,2*}	¹ Graduate School of Biotechnology, Kyung Hee University, Gyeonggi, Republic of Korea ² College of Life Sciences, Kyung Hee University, Gyeonggi, Republic of Korea ³ Department of Audiology, Nambu University, Gwangju, Republic of Korea ⁴ Enbiotech Co. Ltd., Gyeonggi, Republic of Korea
16-089	P-75	Molecular Docking interactions between Panax ginseng Ginsenosides and Voltage-gated Calcium Channel with recovery effects in vivo in kanamycin-induced ototoxicity	Rodrigo Castañeda ^{1,2} , Isabel Rodriguez ^{1,2} , Sang Ho Woo ^{1,2} , Keonwoo kim ^{1,2} , Youn Hee Nam ^{1,4} , Yeong Ro Lee ^{1,2} , Seo Yule Jeong ^{1,2} , Min Gun Ji ^{2,4} , Eun Mi Yang ^{1,2} , Bin Na Hong ^{2,3} , Tong Ho Kang ^{1,2*}	¹ Graduate School of Biotechnology, Kyung Hee University, Gyeonggi, Republic of Korea ² College of Life Sciences, Kyung Hee University, Gyeonggi, Republic of Korea ³ Department of Audiology, Nambu University, Gwangju, Republic of Korea ⁴ Enbiotech Co. Ltd., Gyeonggi, Republic of Korea
16-090	P-76	Ginseng for managing menopausal woman's health: a systematic review of double blind randomized placebo controlled trials	Hye Won Lee, Ji Hee Jun, Byong-Seob Ko, Myeong Soo Lee	Korea Institute of Oriental Medicine, Daejeon, Korea
16-092	P-77	Study of genetic diversity and development of molecular markers for authentication of five <i>Panax</i> species based on chloroplast genome sequences	Binh Nguyen ¹ , Kyunghee Kim ^{1,3} , Hyun-Seung Park ¹ , Sang-Choon Lee ¹ , Junki Lee ¹ , and Tae-Jin Yang ^{1,2*}	¹ Department of Plant Science, Plant Genomics and Breeding Institute, and Research Institute of Agriculture and Life Sciences, College of Agriculture and Life Sciences, Seoul National University, Seoul, 151-921, Republic of Korea ² Crop Biotechnology Institute/GreenBio Science and Technology, Seoul National University, Pyeongchang 232-916, Republic of Korea ³ Phyzen Genomics Institute, 501-1, Gwanak Century Tower, Gwanak-gu, Seoul, 151-836, Republic of Korea.
16-093	P-78	The inhibitory mechanism of gintonin on rat platelet function	Da Hye Jeong ¹ , Seung-Yeal Nah ² , Man Hee Rhee ^{1*}	¹ Laboratory of Veterinary Physiology and Cell Signaling, College of Veterinary Medicine, Kyungpook National University, Daegu 41566, Republic of Korea ² Department of physiology, College of Veterinary Medicine, Konkuk University, Korea

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16-094	P-79	Ginsenoside Rg3-enriched red ginseng extract inhibits collagen-induced platelet aggregation via MAPK pathway	Da Hye Jeong ¹ , Jun-Hwan Oh ² , Yi-Seong Kwak ² , Chae-Kyu Park ² , Man Hee Rhee ^{1*}	¹ Laboratory of Veterinary Physiology and Cell Signaling, College of Veterinary Medicine, Kyungpook National University, Daegu 41566, Republic of Korea ² Korea Ginseng Research Institute, Korea Ginseng Corp., Daejeon 305-805, Republic of Korea
16-095	P-80	Korean red ginseng oil enhanced protection against Brucella abortus	Alisha Wehdnesday Bernardo Reyes ¹ , Hannah Leah Tadeja Simborio ¹ , Huynh Tan Hop ¹ , Lauren Togonon Arayan ¹ , Tran Xuan Ngoc Huy ¹ , Yi-Seong Kwak ² , Da-Hye-Jeong ³ , Man Hee Rhee ³ , and Suk Kim ^{1,4 *}	¹ Institute of Animal Medicine, College of Veterinary Medicine, Gyeongsang National University, Jinju 660-701, Republic of Korea ² Korea Ginseng Research Institute, Korea Ginseng Corp., Daejeon 305-805, Republic of Korea ³ Laboratory of Veterinary Physiology & Cell Signaling, College of Veterinary Medicine, Kyungpook National University, Daegu 702-701, Republic of Korea ⁴ Institute of Agriculture and Life Science, Gyeongsang National University, Jinju 660-701, Republic of Korea
16-098	P-81	Biological control of Cylindrocarpon destructans on Panax ginseng by Bacillus amyloliquefaciens AK-0	Young Soo Kim ¹ , Kyoung Bon Koo ² , Hyung Chul Lee ² , So Hyung Kim ² , Yongho Jeon ^{1*}	¹ Department of Bioresource Sciences, Andong National University, Andong 760-749, Korea ² ECOWIN CO., LTD Software Venture Tower Rm 1001, 117, Dongbuk-ro, Buk-gu, Daegu, 720-837, Korea
16-099	P-82	The construction of first genetic map in Panax ginseng C. A. Meyer	Woojong Jang ¹ , Nam-Hoon Kim ¹ , Ho Jun Joh ¹ , Hana Lee ¹ , Jinkyung Kim ¹ , Inseo Kim ¹ and Tae-Jin Yang ¹	¹ Department of Plant Science, Plant Genomics and Breeding Institute, and Research Institute of Agriculture and Life Sciences, College of Agriculture and Life Sciences, Seoul National University, Seoul, Korea
	P-83	Comparison of Inhibitory Effects between Ginsenoside-Rg3 and Rb2 on Adrenal Catecholamine Secretion	Hyo-Jeong Lim ¹ , Dong-Yoon Lim ^{2#}	¹ Division of Pulmonary and Critical Care Medicine, Department of Internal Medicine, Veterans Health Service Medical Center, 53, 61Gil, Jinhwangdoro, Gangdong-gu, Seoul, 134-791 Korea; ² Department of Pharmacology (Cardiovasc. Lab), College of Medicine, Chosun University, Gwang Ju 501-759, KOREA
	P-84	Protopanaxadiol ginsenosides having 5~6 sugars from fine roots of Panax vietnamensis	Thi Hong Van Le ¹ , Gwang Jin Lee ² , Sung Won Kwon ² , Huynh Kim Long Vu ³ , Jeong Hill Park ² , Minh Duc Nguyen ^{3*}	¹ Faculty of Pharmacy, University of Medicine and Pharmacy Ho Chi Minh City, 41-43 Dinh Tien Hoang, District 1, Ho Chi Minh City, Vietnam ² College of Pharmacy, Seoul National University, Seoul 00826, Korea ³ Faculty of Pharmacy, Ton Duc Thang University, 19 Nguyen Huu Tho Street, Tan Phong Ward, Dist. 7, Ho Chi Minh City, Vietnam

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	P-85	In vitro comparison study of anti-oxidative, and immunomodulatory efficacy using Korea red ginseng and derived components	Sungjae Yang ¹ , Nak Yoon Sung ¹ , Kwang-Soo Baek ¹ , Jae Youl Cho ¹	1Department of Genetic Engineering, Sungkyunkwan University, Suwon 440-746, Korea
	P-86	Korea red ginseng-derived components modulates stress, fatigue, and immune system in animal models	Kwang-Soo Baek ¹ , Nak Yoon Sung ¹ , Sulgi Yoo ¹ , Yo Han Hong ¹ , Mi Seon Kim ¹ , Jae Youl Cho ¹	1Department of Genetic Engineering, Sungkyunkwan University, Suwon 440-746, Korea
	P-87	Protective Effect of Korean Red Ginseng against 6-Hydroxydopamine-induced Nitrosative Cell Death via Fortifying Cellular Defense System	Chan Lee ¹ , Gyu Hwan Park ² and Jung-Hee Jang ¹	1School of Medicine, Keimyung University, Daegu 704-701, South Korea 2College of Pharmacy, Kyungpook National University, Daegu 702-701, South Korea
	P-88	A Herbal Formula, Comprising Panax ginseng and Bee-pollen, Inhibits Development of Testosterone-Induced Benign Prostatic Hyperplasia in Male Wistar Rat	Young Ock Kim, , Hyung Don Kim, Ji-Yeon Lee, Chun Geon Park, Young Sub Ahn	Department of Herbal Crop Research, NIHHS, RDA
	P-89	Anti-stress Effects of Valeriana fauriei and Panax ginseng: a Comparative Study	Sang Won Lee, Sun Woo Cha, Young- Ock Kim	Department of Herbal Crop Research, NIHHS, RDA
	P-90	The effect of Ginseng extract on serine protease inhibitor Kazal type 5 (SPINK5) expression in AD model	NoJune Park ² , Jin-Chul Kim ¹ , Dahye Lee ² kyeong No Yoon ² , Su-nam Kim	1KIST Gangneung Institute, Gangneung 210-340 and 2Department of Biology, Gangneung-Wonju National University, Gangneung, South Korea.
	P-91	The inhibitory effect of Ginseng extracts on Interleukin-4 and 13 expression	Sim-Kyu Bong ² , Jun-Hwee Jang ² , Sullim Lee ¹ , Jin-Chul Kim ¹ , Su-Nam Kim ¹	1KIST Gangneung Institute, Gangneung 210-340 and 2Department of Biology, Gangneung-Wonju National University, Gangneung, South Korea
	P-92	The Anti-aging effects of Heat-processed Ginseng extract and its compounds in the Skin	Yujung Jung ¹ , Jin-Chul Kim ² , Ki Sung Kang ³ and Su-Nam Kim ²	1Department of Marine Molecular Biotechnology, Gangneung-Wonju National University, Gangneung, Korea 2KIST Gangneung Institute, Gangneung 210-340, Korea 3College of Korean Medicine, Gachon University, Seongnam 461-701, Korea