저장/포장/유통

P1-01

Evaluation of Storage Safety and Quality Characteristics of Wheat Under Different Packaging Conditions in Plasma Storage

Hyun-Joo Kim^{1*}, You-Geun Oh¹, Kyeong-Hoon Kim², Jin Hee Park³, Seungmin Ryu⁴, Hong Sik Kim¹, Yu-Young Lee¹, Moon Seok Kang¹

¹Department of Central Area Crop Science, National Institute of Crop Science, Rural Development Administration, Korea

²Rural Development Administration, Korea

³Wheat Research Team, National Institute of Crop Science, Rural Development Administration, Korea

⁴Plasma Technology Research Center, Korea Institute of Fusion Energy, Korea

P1-02

Development of postharvest handling manual of green onions (*Allium fistulosum L.*) in Korea

Ji Weon Choi¹*, MiAe Cho², Ji Hyun Lee¹, Min-Sun Chang¹, Hyang Lan Eum¹, Haejo Yang¹, Yoon Pyo Hong¹

¹Postharvest Technology Division, NIHHS, RDA

²Cheonsu Mountain Medicinal Herb Research Association

P1-03

Effects of low-dose electron beam irradiation on the quality characteristics of *Pa*-kimchi during refrigerated storage

So Yoon Park^{1,2*}, Suk-Min Yun^{1,2}, Ho Hyun Chun¹

¹Kimchi Industry Promotion Division, World Institute of Kimchi

²Department of Integrative Food, Bioscience and Biotechnology, Graduate School of Chonnam National University

P1-04

Effect of the cold plasma treatment on the quality of the shiitake mushrooms during storage

Yonghyun Kim*, Hyun Ji Eo, Chul-Woo Kim, Uk Lee

Special Forest Resources Division, Forest Bioresources Department, National Institute of Forest Science

P1-05

저온 숙성한 과일 농축액의 품질 특성

㈜웰파인 R&D 연구소

P1-06

Development of compulsory air circulation curing chamber for sweetpotato storability improvement

Kim Yong Hoon*, Park June Hyuck, Choi Dong Soo, Kim Jin Se, Park Chun Wan

310 Nongsaengmyeong-ro, Deokjin-gu, Jeonju-si, Rep. of Korea, Department of Agricultural Engineering,
National institute of Agricultural science

P1-07

레토르트 조건에 따른 칼라옥수수 품질특성 비교

권혜정1*, 임재길1, 박지선1, 이하연1, 맹진희1, 엄남용1, 임계현1, 윤정애1, 장경아1

'강원도특별자치도농업기술원 농식품연구소

P1-08

발효 기간에 따른 뜰보리수 열매 식초의 품질 특성 변화

최원영¹*, 위건¹, 김명성², 김영민¹, 조정용¹

 1 전남대학교 융합식품바이오공학과 2 참발효영농조합법인

P1-09

다양한 온습도 조건의 선별장에서 결로현상 방지를 위한 저온저장 사과의 온도 조절 지침 장소정^{*}, 박윤문, 김종기, 박미향, 임은화, 임희택

(사)한국농식품유통품질관리협회

P1-10

채소 품목 별 산지유통센터에서의 수확후 관리기술 변화 분석

장소정^{*}, 박윤문, 김종기, 박미향, 임은화, <u>임희택</u>

(사)한국농식품유통품질관리협회

P1-11

주요 과실 품목별 소비자 선호 품질인자 분석과 활용

장소정^{1*}, 임희택¹, 박미향¹, 임은화¹, 황인근², 안재경³, 김종기¹

 $^{1}(N)$ 한국농식품유통품질관리협회 $^{2}(\mathcal{F})$ 푸르센 3 협동조합 농식품산지유통연구원

P1-12

Influence of state/phase transitions on ice recrystallization in kimchi during frozen storage

Miran Kang^{1,2*}, MinJi Kim¹, Hyun-Jung Chung², and Sung Hee Park¹

¹Technology Innovation Research Division, World Institute of Kimchi, Korea

²Department of Integrative Food, Bioscience and Biotechnology, Graduate School of Chonnam National University, Korea

P1-13

저장 기간에 따른 초절임 자색가지고추의 품질 특성 변화

박유진*, 서수희, 송시훈, 조정용

전남대학교 융합식품바이오공학과

P1-14

Optimization of blanching temperature and concentrations of vitamin c and sucrose for inhibition of browning in apple dices

Dawun Lee^{1*}, Jae-Hee Kim², and Soo-Jung Kim^{1,2}

¹Department of Food Tech,

²Department of Integrative Food, Bioscience and Biotechnology, Chonnam National University

P1-15

수분함량에 따른 MA포장 쌀의 품질변화

이현동*, 박회만, 손재용

농촌진흥청 국립농업과학원

P1-16

누룽지 장기보관 시 발생되는 이취 제어 방법에 대한 보고

박민수*, 김두운

전남대학교 푸드테크학과

P1-17

소비자 구매 후 저장 조건별 어묵류 소비기한 비교 연구

정수진 2 , 1 강준구 1 , 이하림 2 , 하상도 1,2,*

중앙대학교 일반대학원 식품안전규제과학과 시품생명공학과

P1-18

Quality characteristics of onions in different storage environments

Hyang Lan Eum*¹, Jae-Han Cho¹, Jeong Gu Lee¹, Ji-Hyun Lee¹, Min-Sun¹ Chang, JiWon Han²

¹Postharvest Technology Division, National Institute of Horticultural and Herbal Science, RDA, Wanju 55365, Korea ²Pallium Vegetable Research Institute, National Institute of Horticultural and Herbal Science, RDA, Muan 58545, Korea

P1-19

온도관리 및 세척방법에 따른 상추의 품질평가

김효진*, 김상섭, 이다움, 이상봉, 정문철, 최정희

한국식품연구원

프로바이오틱스의 선박 운송 과정에서 생균 수 변화 연구

이세원1*, 임정묵2, 장도연3, 정준재3, 조중상3, 허준3, 오병택1

¹전북대학교 환경생명자원대학 생명공학부, ²(주) 이노비사이언스, ³한국식품산업클러스터진흥원 식품패키징팀

P1-21

신선도유지제 1-MCP의 제형별 처리 후 '태추' 단감의 품질변화 조사

이선미*, 안광환, 김태엽, 정재은, 최성진

경상남도농업기술원 단감연구소

P1-22

감자의 녹변방지 및 온도상승억제를 위한 생분해성 필름 개발

정대원*, 이하준, 이현민, 문민욱, 허재영

국립목포대학교 식품공학과

P1-23

A study on the correlation between internal temperature and quality according to packaging method of small-package refrigerated beef for distribution

Jae-Yong Kim*, Yea-Ji Kim, Ji-Yoon Cha, Jeong-Heon Kim, Min-Kyung Park, Seon-Min Oh, Jae-Hwan Ahn, Yun-Sang Choi

Korea Food Research Institute

P1-24

신품종 '화이트문' 사과 활용 신선편이 과일 제조 시 품질특성

홍정진1*, 김현수1, 손진향1, 오주열1, 정은호1

¹경상남도농업기술원 사과이용연구소

P1-25

신품종 '마이' 사과 활용 건조스낵 제조 시 품질특성

홍정진1*, 김현수1, 손진향1, 오주열1, 정은호1

¹경상남도농업기술원 사과이용연구소

P1-26

이상기후에 따른 농업리스크 위험도 평가 연구 - FMEA분석을 중심으로

구본우*, 장현욱

지역농업네트워크 호남 협동조합

P1-27

Field trials of postharvest CO₂ treatment effects on selected peach cultivars

Jinsu Lee*, Yeo-Eon Yun, Na-Yeong Kwon, Jae-Han Cho

National Institute of Horticultural & Herbal Science, RDA

P1-28

Evaluation of peel yellowing in 'Baekdadagi' and 'Mini' cucumbers during postharvest storage

Siva Kumar Malka*, Jinsu Lee, Hyang-Lan Eum, Me-Hea Park

National Institute of Horticultural & Herbal Science, RDA

P1-29

Preparation and characterization of PLA-based composite films incorporated with zinc oxide nanoparticles and lavender essential oil

Hyo-Lyn Kim, So-Yoon Park, Chanhyeong Kim, Jae-Young Her*

Department of Food Engineering, Mokpo National University, 1666 Yeongsan-ro, Cheonggye-myeon, Muan-gun, Jeollanam-do 58554, Republic of Korea

P1-30

마늘 품종별 능동형 CA 저장 효과 분석

박천완1*, 이진주2, 박기훈2, 김민지1, 김용훈1, 최동수1, 김진세1

¹ 농촌진흥청 국립농업과학원 ²풀무원

P1-31

농산물 수확후처리시설 내부의 총부유세균 및 곰팡이 측정

박천완1*, 김민지1, 김용훈1, 최동수1, 김진세1

¹ 농촌진흥청 국립농업과학원

P1-32

Exploration of biochemical indicators associated with quality degradation of non-thermal processed crab meat

Ga-Yang Lee*, Min-Jeong Jung, Jong-Woong Nam, Jin Lee, Ju-Yeon Park, Ji-Seong Hong, Byoung-Mok Kim, Joon-Young Jun

Korea Food Research Institute

P1-33

The quality changes of paprika (*Capsicum annuum* L.) by packaging materials during the export process

Mi-Ryung Kim^{1*},Jun-Hyung Lim¹,Chan Suk Yoon² and Chang-Soo Kang²

¹Department of Food Science and Culinary Art, Silla University, Republic of Korea ²Department of Agriculture & Fisheries Processing, Korea National College of Agriculture and Fisheries, Republic of Korea

P1-34

Quality characteristics according to mixing conditions of fresh-cut salad vegetables

Min-Sun Chang*, Ji Weon Choi, Jihyun Lee, Jae-Han Cho, Hyang Lan Eum, Haejo Yang, Jeong Gu

Postharvest Technology Division, National Institute of Horticultural & Herbal Science, RDA

P1-35

Introduction to preparing the system for storing apples at 10°C with plasma technology

Hyeongwon Jeon*, Sunghoon Jee, Eunhee Park, Seungil PARK

Institute of Plasma Technology, Korea Institute of Fusion Energy

Quality analysis of potato soup with fermented soybean powder

Jae-Geel Lim*, Hye-Jeong Kwon, Ji-Seon Park, Nam-Young Um, Eun-Kyung Yeom, Yoon-Ji Goh, Yun-Mi Ko, Seo-Hyun Yoon

Agro-food Research Institute, Gangwon State Agricultural Research and Extension Services(GARES), Chuncheon 24203, Korea

P1-37

Enhancing the physical properties of microcrystalline cellulose films and hydrogels through tailored curing conditions

Maria Jose Silva Pincay*, Yeongjun Kim, Nahyeon Kim, Deokyeong Choe

School of Food Science and Biotechnology, Kyungpook National University

P1-38

Effects of various pretretment methods on physicochemical properties of salted kimchi cabbage during freezing storage

Hui Eun Kim^{1, 2*}, Yun-Jeong Choi¹, Dong Hyeon Park¹, Sung Hee Park¹,

¹Kimchi Industry Promotion Division, World Institute of Kimchi ²Department of Integrative Food, Bioscience and Biotechnology, Chonnam National University

P1-39

A Study on RFID tag and GPS Integrated Module for Smart Logistics Management of Agricultural Products

Jongmin Park^{1*}, Hyun Mo Jung², Eon Uck Kang³

¹*Dept. of Bio-industrial Machinery Engineering, Pusan National University,

²Dept. of Logistics Packaging, Kyongbuk Science College.,

³Research & Development Center of RESCO Co., Ltd

P1-40

Application of nano-zeolite to extend post-harvest shelf life of tomato

Yue Zhao^{1*}, Jiyeon Chun¹

¹Sunchon National University, Suncheon, Jeonnam, South Korea

P1-41

Development of packaging technology to prevent condensation in storage and distribution of agricultural products after harvest

Hyun Mo Jung^{1*}, Jong-min Park²

¹Division of Smart Farm & Food, Kyongbuk Science University ²Dept. of Bio-industrial Machinery Engineering, Pusan National University

P1-42

Evaluation of antimicrobial activity of photofunctional polymer films against food-borne pathogens and spoilage bacteria

Rye Gyeong Park^{1*}, Ji Hyeon Lee¹, Soo Hyun Han¹, Sang-Jae Lee¹, Il Kwon Bae³, and Jae Hak Sohn^{1,2}

¹Department of Food Science and Culinary Arts, Silla University, ²Seafood Research Center, IACF, Silla University, ³Department of Companion Animals, Silla University

P1-43

Regeneration of Pd@ZSM-5 adsorbent using non-thermal plasma for the post-harvest ethylene removal

Eunhee Park*, Hyeongwon Jeon

Korea institute of fusion energy

P1-44

Changes in quality of winter mushrooms depending on storage temperature and application of packaging film

Seong-Woo Jin, Kyung-Je Kim, Seung-Bin Im, Dong-Uk Kim, Young-Woo Koh, Neul I Ha, Hee-Gyeong Jeong, Dong-Hyeon Lee, Sang-Wook Jeong, and Kyoung-Sun Seo*

Jangheung Research Institute for Mushroom Industry

P1-45

Evaluation of Smart Unit Load System for Agricultural Products Storage and Distribution

Dongsoo Choi¹*, Jinse Kim¹, Yonghoon Kim¹, Chunwan Park¹, Hyun-Mo Jung²,

Ghi-Seok Kim³, Jong-Min Park⁴

¹Postharvest Engineering Division, National Institute of Agricultural Sciences, Rural Development aministration

²Dept. of Logistic Packaging, Kyongbuk Science Collelge, Korea

³Dept. of Biosystems Engineering, Seoul National University, Korea

⁴Dept. of Bio-industrial Machinery Engineering, Pusan National University, Korea

P1-46

Effects of deep-freezing temperature on the physiochemical properties of diced radish kimchi (Kakdugi) during long-term storage

Minji Kim^{1,2}, Dong Hyeon Park¹, Min Jung Lee¹, Sung Jin Park¹, Seung-Joo Lee², Sung Hee Park^{1,*}

¹Kimchi Industry Promotion Division, Practical Technology Research Group, World Institute of Kimchi, Gwangju, 61735, Republic of Korea ²Department of Hospitality, Tourism and Culinary, Sejong University, Seoul, 05006, Republic of Korea

P1-47

Characteristics of polycaprolactone/chitosan/nano-zeolite antimicrobial nanofibrous for food packaging

Yue Zhao1*, Jiyeon Chun1

¹Sunchon National University, Suncheon, Jeonnam, South Korea

P1-48

A study on prediction of shelf-life for the laver chip prototype

Jeong-min Heo¹*, Sug-jin Seo¹, -min Kim¹, JeonYong-hee Jung¹, Yu-eun Jeong¹, Kyeong-hwan Hwang², Yong-Jun Cha¹, Daeung Yu^{1,2}

¹ Department of Food and Nutrition, Changwon National University

² Interdisciplinary Program in Senior Human Ecology, Major in Food and Nutrition, Changwon National University

P1-49

매생이 동결건조 Block 제조를 위한 성형기의 개발

신영우*

전남대학교 냉동공학과

P1-50

LED 저온 저장 시스템에 의한 갓김치의 품질 특성 향상

김민용* 전남대학교 냉동공학과

가공/품질

P2-01

가공 식품 이미지 인식을 위한 AI 학습용 DB구축과 성능에 관한 연구

김영덕*, 박준우

대구경북과학기술원 ICT연구본부

P2-02

Physicochemical Characteristics and Anti-inflammatory Potential of *Zophobas morio* (Super Mealworm) Protein Extracted by Different Methods

Haseong-Cho^{1*}, Ju-Hwi Park¹, Ibukunoluwa Fola Olawuyi¹, Ju-Ock Nam^{1,2}, and Won young Lee^{1,2}

'School of Food Science and Biotechnology, Kyungpook National University

²Research Institute of Tailored Food Technology, Kyungpook National University

P2-03

Comparison and characterization of hempseed protein isolate obtained different modified methods: structural, physicochemial and fucntional properties

Inha-Baek^{1*}, Nurul Saadah Said¹, Haseong-Cho¹, Wonyoung-Lee^{1,2}

¹School of Food Science and Biotechnology, Kyungpook National University

²Research Institute of Tailored Food Technology, Kyungpook National University

P2-04

Comparative Analysis of Baromi-2 (Powdered Rice) Gluten-free Bread Quality and Properties Enriched with Various Types of Fiber

Yun-Ju Jang¹*, Nurul Saadah Said¹, Won-Young Lee^{1,2}

¹School of Food Science and Technology, Kyungpook National University ²Research Institute of Tailored Food Technology, Kyungpook National University

P2-05

Development of Betacyanin-Infused Pectin-Based Intelligent Films from Pitaya Peel Extract with Titanium Dioxide Nanoparticles for Monitoring Fish Fillet Freshness

Huimin Du ¹, Nurul Saadah Said ¹, Ibukunoluwa Fola Olawuyi¹, Won-Young Lee^{1,2*}

¹School of Food Science and Technology, Kyungpook National University, Daegu 702-701, Korea ²Research Institute of Tailored Food Technology, Kyungpook National University, Daegu 41566, Korea

P2-06

Pectin/PLA Bilayer Films with Schiff Base Infusion: pH-Responsive Release of Bioactive Ingredients as Active Packaging in Fruit Preservation

Nurul Saadah Said ¹, Won-Young Lee^{1,2*}

¹School of Food Science and Technology, Kyungpook National University, Daegu 702-701, Korea ²Research Institute of Tailored Food Technology, Kyungpook National University, Daegu 41566, Korea

P2-07

Effect of Fermented *Angelica keiskei* extract, Vitamin C, and Ultrasound Treatment on The Quality of Cured Pork Meat

Yea-Ji Kim^{1*}, Jeong Heon Kim¹, Jae Hoon Lee¹, Ji Yoon Cha¹, Jae Hwan Ahn², Tae-Kyung Kim¹, Yun-Sang Choi ¹

¹Research Group of Food Processing, Korea Food Research Institute ²Food Safety and Distribution Research Group, Korea Food Research Institute

P2-08

추출 방법별 갈색거저리(Tenebrio molitor) 기름의 이화학적 특성

임윤지*, 최덕수, 김선암, 이유범, 오상아, 김지수, 이주영, 권혜영, 주경천

전남농업기술원 곤충잠업연구소

P2-09

유산균을 첨가한 발효화분빵의 기능성 분석

김선암*, 최덕수, 이유범, 오상아, 김지수, 임윤지, 이주영, 권혜영, 주경천

전남농업기술원 곤충잠업연구소

P2-10

Comparison of biological activities of red sage(salvia miltiorrhiza) and polygonatum sibiricum from different extraction solvents.

Jae Eun Park*, Hyun-Ju Eom, Hye Jin Park, Hye Jeong Kang, Min-Ja Kim

Chungcheongbukdo Agricultural Research and Extension Services, Cheongju, Chungbuk, 28130, Korea

P2-11

Quality Characteristics and Antioxidant Activities of Sweet Potato Liqueur with Grapes Cultivated in Korea

Hye Jin Park*, Hyun-Ju Eom, Jae Eun Park, Nu Ri Gwon, Min-Ja Kim

Chungcheongbukdo Agricultural Research and Extension Services, Cheongju, Chungbuk, 28130, Korea

P2-12

Quality characteristics of paprika mixed jam with different types of sugar

Hyun-Ju Eom*, Hye Jin Park, Jae Eun Park, Hye Jeong Kang, Min-Ja Kim

Chungcheongbukdo Agricultural Research and Extension Services, Cheongju, Chungbuk, 28130, Korea

P2-13

Quality characteristics of paprika mixed jam with different types of 'cheong'

Hyun-Ju Eom*, Hye Jin Park, Jae Eun Park, Hye Jeong Kang, Min-Ja Kim

Chungcheongbukdo Agricultural Research and Extension Services, Cheongju, Chungbuk, 28130, Korea

P2-14

The physicochemical characteristics of nurungji added with radish root juice

Dieudonne Iradukunda^{1*}, Ga Yeon Yoon², Yoon-Han Kang^{2,3}, Dong-Jin Kwon^{2,3}

¹Department of Food Processing and Distribution, ²Department of Marine Bio Food Science, ³East Coast Research Institute of Life Science, Gangneung-Wonju National University

P2-15

국산 커피를 활용한 커피맥주 제조 공정 개발

백세은1*,문세희1, 최현아1, 백다예1, 백지환1, 차상화2, 손동모2

¹광주대학교 식품영양학과 ²마이크로맥스영농조합법인

P2-16

국산 커피 생두를 활용한 커피 증류주 제조 공정 개발

문세희1*, 백세은1, 최현아1, 백다예1, 백지환1, 차상화2, 손동모2

¹광주대학교 식품영양학과 ²마이크로맥스영농조합법인

P2-17

Study on the quality characteristics and sensory evaluation of fermented milk added with fermented lactic acid bacteria extract of *Cordyceps militaris* derived from three types of edible insects

Won Hee Lee1*, Su Hwan Kim2, Eun Hye Kim1, Jun Seo Jang1, Hye Mi Jang3, Chang Ki Huh12

¹Department of Food Science and Technology, Sunchon National University ²Research Institute of Food Industry, Sunchon National University ³Jangheung Research Institute for Mushroom Industry

P2-18

Development of automatically circulate brine (ACB) system to improve efficiency and quality of salted kimchi cabbage

Sung Jin Park*, Min Jung Lee, Dong Hyeon Park, Min Ji Kim, Ji Young Choi, Sung Hee Park

P2-19

A Study on Extending the Shelf Life of *Kimbugak* through Improved Processes to Reduce Rancidity

Hee-Jin Jo¹ * , JiYeong Choi², SoJeong Park², Se-Young Cho³, Duwoon Kim^{1 · 2 · 3},

'Department of FoodTech, Chonnam National University, Gwangju 61186, Republic of Korea

*Department of Food Science and Technology, Chonnam National University, Gwangju 61186, Republic of Korea

*Foodborne Virus Research Center, Chonnam National University, Gwangju 61186, Republic of Korea

P2-20

Effect of drying conditions on the functional compounds in Paeonia lactiflora Pall. roots

Yonghyun Kim¹, Hyun Ji Eo¹, Chung Ryul Jung², Uk Lee^{1*}

¹Special Forest Resources Division, National Institute of Forest Science

²Forest Entomology and Pathology Division, National Institute of Forest Science

P2-21

Improved Qulaity of Black Ginseng via Fermentation with Stevia

Kwak Yeon-Ju¹, Hwang Su-Byung¹, Yang Jin-Ju¹, Youn Geum-Joung*

¹Research Institute of GH BioFarm, Agricultural Corporation GAGOPA-HEALING FOOD, Changwon, 51219, Korea

P2-22

소스 제품에 적용 가능한 당류 및 칼로리 저감 감미료 조성물 개발

길선미*, 최충효, 송요한, 김수영, 주동일, 허성용, 임지혁

㈜우리식품

P2-23

패션프루트 와인 제조를 위한 희석비율별 품질 특성 변화

송영은^{1*}, 한현아¹, 이송이¹, 최유림¹, 안민실², 김민지³

¹전북특별자치도농업기술원 작물식품과, ²전북특별자치도농업기술원 원예과, ³포도청와이너리

A Study on the Effect of Milling on Reduction of Mycotoxins in Wheat and Barley

Han-Yeol Bang*, Jun-Hyuk Choi, Song-Yi Woo, Ji-Hyun An, Gwang-Rok Yoon, Woo-Yong Bae

Gyeongnam Provincial Office, National Agricultural Products Quality Management Service

P2-25

갈색거저리 유산균 발효소재를 활용한 기능성 펫푸드의 품질특성

유영희12*, 나영숙², 김현진², 허창기1

1순천대학교 식품공학과, 2월플레이스

P2-26

The comparative analysis of chemical characteristics and nutritional assessment of legume and yeast protein supplements.

Hyun-A An*, Jeung-Hee Lee

Department of Food and Nutrition, Daegu University, Korea

P2-27

Determination of physiochemical characteristic differences in wheat *soju* mash fermented with N9 strain by different cultivar

In-Seo Hwang*, Boram Kim, Chan-Woo Kim, Bo-Ra Lim, Ji Ho Choi

Fermented and Processed Food Science Division, National Institute of Agricultural Science, RDA, Wanju, 55365, Korea

P2-28

Determination of physiochemical characteristic differences in wheat *soju* mash fermented with commercially available yeast by different cultivar

In-Seo Hwang*, Boram Kim, Chan-Woo Kim, Bo-Ra Lim, Ji Ho Choi

Fermented and Processed Food Science Division, National Institute of Agricultural Science, RDA, Wanju, 55365, Korea

P2-29

Quality characteristics of Korean traditional barley-based Nuruk according to grinding ratio and inoculation rates

Yejin Shin*, Bora Lim, Chanwoo Kim, Ji-Ho Choi

Fermented and Processed Food Science Division, National Institute of Agricultural Sciences, RDA, Wanju, 55365, Korea

P2-30

Quality characteristics of makgeolli added with Humulus lupulus

Ji-Youn KIM*, Bo-Ra Im, Ji-Ho Choi

Fermented & Processing Food Science Division, National Institute of Agricultural Sciences, RDA, Wanju, Korea

P2-31

Vacuum-Assisted Low-Temperature Frying: Process Optimization for scallop snacks Production

Young Hyun An^{1*}, Jin Kim¹, Ga Bin Lee¹, Sun Young Park¹, Hye Jeong Cho², Jung-Suck Lee¹

¹Department of Seafood Science Technology/Institute of Marine Industry, Gyeongsang National

University, Tongyeong 53064, Korea

²3F, Do Maejangdong, 35, Wonyong-rom, Seo-gu, Busan, 49277, Republic of Korea

P2-32

A study on the 'use-by' date of Gambas al ajillo retort food with scallops

Jin Kim¹*, Young Hyun An¹, Ga Bin Lee¹, Sun Young Park¹, Ji-Hoon Park², and Jung-Suck Lee¹

¹Department of Seafood Science and Technology/Institute of Marine Industry, Gyeongsang National

University

²Department of R&D, Daesang Food Plus

P2-33

Changes in freshness of frozen mackerel (*Scomber japonicus*) with different packaging methods for refrigerated distribution over storage time

Ga Bin Lee*, Jin Kim, Young Hyun An, Sun Young Park, Eun Bi Jeon, Shin Young Park and Jung-Suck Lee

Department of Seafood Science and Technology/Institute of Marine Industry, Gyeongsang National
University

P2-34

식용곤충 소재별 탈지분말 및 유지추출물의 이화학적 특성 분석

조영희*, 강상국, 김성완, 박종우, 김성렬, 이지혜

농촌진흥청 국립농업과학원 농업생물부, 전북 완주군, 55365

P2-35

Utilization of foam structured *Tenebiro moliter* larvae protein oleogels and their application as a solid fat replacer in sweet pan bread

Chae Young Jung*, and Imkyung Oh

Department of Food Science & Technology, Sunchon National University, Suncheon, Korea

P2-36

Effects of oak mushroom (*Lentinula edodes*) and chickpea flour incorporation proportions on the physicochemical characteristics of plant-based meat analogues

Bo Ra Lee*, Ha Eun Lee, Imkyung Oh

Department of Food Science & Technology, Sunchon National University, Sunchon Korea

P2-37

Development of protein-enriched fried snack with Tenebrio molitor powder

Yujin Choi*, Minsu Park, Imkyung Oh

Department of Food Science & Technology, Sunchon National University, Sunchon, Korea

P2-38

딸기(설향)의 재배 환경(하우스 및 스마트팜)에 따른 품질특성 비교

김해원¹, 김은혜², 허창기^{1,2,3*}

¹순천대학교 스마트융합학부 스마트농업전공, ²순천대학교 식품공학과, ³순천대학교 식품산업연구소

P2-39

일반하우스 재배와 스마트팜 재배 딸기(설향)의 저장 기간에 따른

김해원¹, 김은혜², 허창기^{1,2,3*}

¹순천대학교 스마트융합학부 스마트농업전공, ²순천대학교 식품공학과, ³순천대학교 식품산업연구소

P2-40

Quality characteristics of defatted soybean flour texturized vegetable protein according to the degree of mixing of isolated soybean protein

Sunyoung Jung^{1,*}, Misook Seo¹, Seul Lee¹, Boram Park¹, Shinyoung Park¹, Kyungmi Kim¹, Chansoon Park¹

¹Fermented Processing Food Science Division, National Institute of Agricultural Sciences, RDA

P2-41

Storage characteristics of defatted soybean flour texturized vegetable protein (TVP) with rice flour and pH adjusting agent

Mi Sook Seo^{1*}, Chan Soon Park,¹, Sun Young Jung¹, Bo Ram Park¹, Kyung Mi Kim and Shin Young Park¹

¹Fermented & Processed Food Science Division, National Institute of Agricultural Sciences, RDA, Korea

P2-42

Development of a Color Model and Colorimetric Analysis of Different Rice Varieties Using Machine Vision

Dong-Gwan Shin^{1,2*}, Hoon Kim¹, Hong-Sik Kim¹, Jae-Woong Han²

¹Korea Food Research Institute

²Division of smart farm Engineering, Kongju National University

P2-43

Comparison of quality and flavor characteristics of imported, domestically produced, and developed brandy.

Jueun Lee*, Bora Lim, Jiho Choi, Chanwoo Kim

Fermented & Processed Food Science Division, National Institute of Agricultural Sciences

P2-44

Physicochemical and flavor characteristics of wine depending on persimmon varieties.

Jueun Lee*, Youngmi Kim, Bora Lim, Jiho Choi, Chanwoo Kim

Fermented & Processed Food Science Division, National Institute of Agricultural Sciences

P2-45

가공 후 남은 매실 부산물의 식품 소재로서 활용성

정민영

주식회사 케이에프

P2-46

Jack bean-based upcycled candies: roasting optimization and antioxidant analysis

Rheeno Lee*, Do-Yeon Go^{2,3}, Yong-Suk Kim

Department of Food Science & Technology, Jeonbuk National University, Korea

²Department of FoodTech, Jeonbuk National University, Korea

³Green Road corp., Korea

P2-47

나주배를 활용한 젤리스틱형 숙취해소제 개발

김혜연*, 정일겸, 신유정, 이현준

국립목포대학교 식품공학과

P2-48

Comparison of Physicochemical Properties of Wheat Flour and *Makgeolli* for Selecting Suitable Wheat Varieties for Brewing

Bo-Ram Kim*, In-Seo Hwang, Chan-Woo Kim, Ji-Ho Choi

Fermented and Processed Food Science Division, National Institute of Agricultural Sciences, Korea

P2-49

Comparative Physicochemical and Sensory Properties of *Yakju* Made from Different Rice Varieties for Selecting Suitable for Brewing

Bo-Ram Kim¹*, Hyun-Ho Kang^{1,2}, Chan-Woo Kim¹, Ji-Eun Kang¹, Ji-Ho Choi¹

¹Fermented and Processed Food Science Division, National Institute of Agricultural Sciences, Korea, ²Department of World Brewing and Distilling, Daekyeung University, Korea

P2-50

Comparative analysis of Physicochemical and Sensory Characteristics for Selecting Suitable Rice Varieties for Distilled *Soju*

Bo-Ram Kim¹*, Hyun-Ho Kang^{1,2}, Chan-Woo Kim¹, Ji-Eun Kang¹, Ji-Ho Choi¹

¹Fermented and Processed Food Science Division, National Institute of Agricultural Sciences, Korea, ²Department of World Brewing and Distilling, Daekyeung University, Korea

P2-51

Growth and volatile compounds of sweet basil from different cultivation conditions

Seoyoung Jeon^{1*}, Ahna kim², Kihyun Kwon^{1,2}

¹Food safety and distribution research group, Korea Food Research Institute ²Research group of digital factory, Korea Food Research Institute

P2-52

Analysis of the growth and functional compounds of hydroponic sprout barley with different light conditions

Seoyoung Jeon^{1*}, Wooduck Seo³, Kihyun Kwon^{1,2}

¹Food safety and distribution research group, Korea Food Research Institute

²Research group of digital factory, Korea Food Research Institute

³Division of crop foundation, National institute of crop science (NICS), Rural Development Administration (RDA)

Effect of different salt types on the fermentation of kimchi

Yun-Jeong Choi^{1*}, Hee Eun Kim^{1,2}, Sung Hee Park¹, Mi-Ai Lee¹

¹Kimchi Industry Promotion Division, World Institute of Kimchi ²Department of Integrative Food, Bioscience, and Biotechnology, Chonnam National University

P2-54

Physicochemical Properties of Edible Insect Oil Affected by Drying Method

Ji Yoon Cha^{*}, Yea-ji Kim, Jeong Heon Kim, Tae-Kyung Kim, Yun-Sang Choi

Research Group of Food Processing, Korea Food Research Institute, Wanju, Korea

P2-55

갓 시래기 건조조건에 따른 품질특성

이유석*¹, 지수현¹, 이선경¹, 김표현¹, 강현주¹, 마경철², 고숙주¹ 전라남도농업기술원 친환경농업연구소¹, 식량작물연구소²

P2-56

Deep learning-based prediction of consumer preference for pre-packaged shrimp (Gambas) meal kits

Ui Jin Kim*², Bo Young Jeon², Hyun Sub Kim², Mi Jeong Kim¹²

¹Department of Food and Nutrition, Changwon National University ²Interdisciplinary Program in Senior Human Ecology, Changwon National University

P2-57

가루쌀 로스팅 조건에 따른 품질특성 및 가공적성 비교

이유석 *1 , 이선경 1 , 지수현 1 , 김표현 1 , 김주현 1 , 마경철 2 , 고숙주 1

전라남도농업기술원 친환경농업연구소 1 , 식량작물연구소 2

P2-58

아린 맛 성분을 저감한 토란 반가공소재 비교

이선경*1, 이유석1, 김표현1, 지수현1, 이세라1, 마경철2, 고숙주1

전라남도농업기술원 친환경농업연구소 1 , 식량작물연구소 2

P2-59

수산물 단백질 활용 유자 음료의 첨가물에 따른 비린맛 저감 효과 비교

이선경*, 이유석, 김표현, 지수현, 조한라, 고숙주

전라남도농업기술원 친환경농업연구소

P2-60

양파 전처리 조건에 따른 양파당의 품질특성 및 주요 성분 비교

이선경*1, 이유석1, 김표현1, 지수현1, 김주현1, 마경철2, 고숙주1

전라남도농업기술원 친환경농업연구소1, 식량작물연구소2

P2-61

건조 방법 및 온도에 따른 양배추 분말의 품질특성 변화

김표현*1, 이유석1, 이선경1, 지수현1, 이은실1, 마경철2, 고숙주1

전라남도농업기술원 친환경농업연구소1, 식량작물연구소2

P2-62

데치기 시간을 달리한 건 취, 곤드레의 복원 방법별 품질특성

김표현*, 이유석, 이선경, 지수현, 신정엽, 고숙주

전라남도농업기술원 친환경농업연구소

P2-63

Changes of Antioxidant Activity and Lignan Contents in Schisandra Extract by enzymatic processing

Ji Seon Park*, Um Nam-yong, Hyejeong Kwon, Jae Geel Lim, Jeung Ae Yoon, Kye Hyun Lim, Han Ul Park, Sun Young Kim, Kyung Ah Jang

Agro-food Research Institute, Gangwondo Agricultural Reserach and Extension Services(ARES), Chuncheon 24203, Korea

P2-64

Development of novel sericin bigel beads for co-encapsulation of L-ascorbic acid and β -carotene: Evaluation of stability and *in-vitro* gastrointestinal release profile

Thinzar Aung^{1*}, Nayab², Egwumah Ojochenemi Rebecca², Mi Jeong Kim^{1,2}

¹Department of Food and Nutrition, Changwon National University ²Interdisciplinary Program in Senior Human Ecology, Changwon National University

P2-65

Upcycling Coffee Grounds in Extruded Snacks for Enhanced Functionality and Sustainability

Hojin Jung*, Gi-Hyung Ryu, Bon-Jae Gu

Department of Food Science and Technology, Food and Feed Extrusion Research Center, Kongju National University

P2-66

동물성 지방을 모방하기 위한 곤약 글루코만난, 알긴산나트륨 및 라드 기반 에멀션 겔의 개발

성진수1*, 김지윤1, 김정수1, 문광덕1.2

¹경북대학교 식품공학부, ²경북대학교 식품생물산업연구소

P2-67

초음파 전력과 처리 시간을 달리하여 제조한 홍삼 전분의 품질 특성 비교

서유민1*, 김지윤1, 김정수1, 성진수1, 김수현1, 임정호2, 문광덕1,3

¹경북대학교 식품공학부, ²한국식품연구원, ³경북대학교 식품생물산업연구소

P2-68

Observation of Physicochemical Properties of Radish by Various Drying Method

Seong Hun Oh^{1*}, Un Ha Mun², Seung Hyun Bae³, Change Gyu Go³,

Gve Hwa Shin¹

¹Department of food & nutrition, Kunsan National University,

²Sane Food, ³FOODPOLIS, Korea national food cluster

P2-69

Effects of pH-shifting and ultrasound power on the functional properties of co-treatment extracted *Locusta migratoria* protein

Soo Hyun Kim^{1*}, Jung Soo Kim¹, Jiyoon Kim¹, Kwang-Deog Moon^{1,2}

¹School of Food Science and Biotechnology, Kyungpook National University

²Food and Bio-Industry Research Institute, Kyungpook National University

P2-70

Chemical composition and physicochemical properties of dried laver (*Pyropia* spp.) in Korea

Jong Bong Lee*, Suk Kyung Sohn, Ga Yeon Kwon, Hyo Rim Lee, Hyeong Jun Kim, Min Jae Kim, Ha Eun Park and Kil Bo Shim

Department of Food Science and Technology, Pukyong National University

P2-71

Development of Nutrient-Rich Fish Cakes Using Fish Oil and Egg Yolk Emulsion

Jong Bong Lee*, Suk Kyung Sohn, Ga Yeon Kwon, Hyo Rim Lee, Hyeong Jun Kim, Min Jae Kim, Ha Eun

Park and Kil Bo Shim

Department of Food Science and Technology, Pukyong National University

P2-72

Physicochemical analysis and sensory evaluation of Chungtaejeon according to *Camellia sinensis* cultivars

Byung-Hyuk Kim*, Yun-Suk Kwon, Ha Rim Hong, Eun Yong Song, Hyun-Hee Han, Doo-Gyung Moon

Research Institute of Climate Change and Agriculture, NIHHS, RDA

P2-73

Physicochemical characteristic of marinated abalone (*Haliotis discus hannai*) in seasoned soy sauce for the elderly using texture Modification Technology

Suk Kyung Sohn*, Jong Bong Lee, Ga Yeon Kwon, Hyo Rim Lee, Hyeong Jun Kim, Min Jae Kim, Ha
Eun Park and Kil Bo Shim

Department of Food Science and Technology, Pukyong National University

P2-74

The Inhibitory Effect of Cordycepin Isolated from *Cordyceps militaris* Cultivated with *Tenebrio molitor* Larvae on PC-9 Cell

Neul-I Ha¹, Seung-bin Im¹, Kyung-Je Kim¹, Seong-Woo Jin¹, Young-Woo Koh¹, Hee-Gyeong Jeong¹, Sang-Wook Jeong¹, Min-Woong Kim¹, and Kyoung-Sun Seo¹*

¹Jangheung Research Institute for Mushroom Industry

P2-75

Quality characteristics of sauces using fermented *Lentinula edodes by* plantal lactic acid bacteria

Kyung-Je Kim¹, Dong-Hyeon Lee¹, Seong-Woo Jin¹, Young-Woo Koh¹, Seung-Bin Im¹, Sang-Wook Jeong¹, Neul-I Ha¹, Hee-Gyeong Jeong¹, Dong-Uk Kim¹, Yu-Jin Choi², Min-Gyeol Kim², Kyoung-Sun Seo^{1*}

¹Jangheung Research Institute for Mushroom Industry ²Imsil Cheese & Food Research Institute

P2-76

Establishment of optimal folic acid extraction condition from *Pleurotus ostreatus* according to the useful components

Young-Woo Koh¹, Kyung-Je Kim¹, Seong-Woo Jin¹, Seung-bin Im¹, Sang-Wook Jung¹, Neul-I Ha¹, Hee-Gyeong Jeong¹, Dong-Hyeon Lee¹, Dong-Uk Kim¹, Min-Woong Kim¹, Ki-Man Kim² and Kyoung-Sun Seo*

¹Jangheung Research Institute for Mushroom Industry ²Department of Health Functional Food, Gwangju University

P2-77

Production a high solid concentration of microfibrillated cellulose derived from *Gellidium amansii* through introduction of fed-batch milling

Hye Jee Kang*, Nur Istianah, Jeong Hwa Jang, Ju Hyun Min, Young Hoon Jung
School of Food Science and Biotechnology, Kyungpook National University

P2-78

Quality characteristics of vegan cookies using defatted rice bran

Hyejeong Kim^{1*}, A-Young Lee^{1,2}, Seung-Bin Han², Hyun-A An², Dong-Jin Moon¹, Jeung-Hee Lee^{2*}

¹ Corporate R&D Center, The Bread Blue, Corp. Seoul 08380, Korea

² Department of Food and Nutrition, Daegu University, Gyeongbuk 712-714, Korea

P2-79

Evaluation of deep eutectic solvents for the sustainable production of levulinic acid from biomass

Yeon Ju Lee*, Young Hoon Jung

School of Food Science and Biotechnology, Kyungpook National University

P2-80

Useul ingredients of processed foods using *Mycoleptodonoides aitchisonii*Hee-Gyeong Jeong, Kyung-Je Kim, Seong-Woo Jin, Young-Woo Koh, Seung-bin Im, Neul-I Ha,

Dong-Hyeon Lee, Dong-Uk Kim, Sang-Wook Jeong, and Kyoung-Sun Seo*

Jangheung Research Institute for Mushroom Industry

P2-81

Evaluation of Physicochemical Properties in Rendered Animal Fats: Insights from Chicken Fat, Lard, and Tallow

Jiyoon Kim^{1*}, Jung Soo Kim¹, Jinsu Sung¹, Soo Hyun Kim¹, Yu Min Seo¹, Kwang-Deog Moon^{1,2}

¹School of Food Science and Biotechnology, Kyungpook National University, 80 Daehak-ro, Daegu, 41566, Republic of Korea,

²Food and Bio-Industry Research Institute, Kyungpook National University, 80 Daehak-ro, Daegu, 41566, Republic of Korea

P2-82

The suitability of surimi ink for food 3D printing based on the type and content of sugars.

Da-Sol Jeong^{1*}, So-Hee Park², Yun-Seo Han³, Ga-Won Kim³, A-Jin Yoon⁴, Soo-Jung Kim⁵

¹Department of Food Science and Technology, Graduate School of Industry, Chonnam National University, ²Department of Food Science and Technology, Chonnam National University, ³Department of Bioenergy Science and Technology, Chonnam National University, ⁴Department of Food Science, Jeonbuk National University, ⁵Department of Integrative Food, Bioscience and Biotechnology, Chonnam National University

P2-83

Effect of drying condition to physicochemical properties of bee pollen

Minh Huy Tieu ¹, Johnson Olowoniyi ¹, Hye Kyung Moon ², Soo won Lee ², Jong kuk

Kim ^{1*}

¹Department of Food Service and Restaurant Industry, Kyungpook National University. ²Center for Scientific Instruments Branch, Kyungpook National University

P2-84

Effect of cooking methods on physicochemical properties of beef round

Jung Soo Kim^{1*}, Jiyoon Kim¹, Soo Hyun Kim¹, Jinsu Sung¹, Kwang-Deog Moon^{1,2}

¹School of Food Science and Biotechnology, Kyungpook National University, ²Food and Bio-Industry Research Institute, Kyungpook National University

P2-85

Vitamin B6 profiles in leafy vegetables affected by heat treatment

Hui-jin Lee^{1*}, Seo-Eun Park, Jiyeon Chun^{1,2} 이희진^{1*}, 박서은, 천지연^{1,2}

¹Department of Food Science and Technology, Sunchon National University, Korea

P2-86

Current status of Korean sauces and dressings that lead K-food exports

Do-Kyung Kim1, Hyun-jung Ko1, Wha-young Choei1, and Kwontack Hwang1*

1 Department of Food and Nutrition, Nambu University, Gwangju 62271, Korea

P2-87

Effects of *Sardinops melanostictus* powder on the quality of fermented soybean paste during storage

Danhui Kim*, Jieon Kim, Yuni Noh, Wonju Kwak, Hyunjung Yun, Jae-Young Oh, Kwang-Soo Ha, Kajeong Lee

Department of Food Safety and Processing Research Division, National Institute of Fisheries Science, Korea

화학/분석

P3-01

발효균주에 따른 발효 마페이스트 이화학적 특성

최소영*, 전수경, 임경란, 이종필

경상북도농업기술원 생물자원연구소

P3-02

Metabolomic discrimination of safflower leaves according to growth period Seon-Jin Lee^{1,*}, Si-Hun Song¹, You-Seok Lee², Sun-Kyung Lee², Pyo-Jueon Kim², and Jeong-Yong Cho¹

¹Department of Food Science & Technology, Chonnam National University ²Environment-Friendly Agricultural Research Institute, Jeollanamdo Agricultural Research and Extension Services

P3-03

국내산 및 일본산 마른김의 UPLC-QTOF-MS 기반 대사체 분석

송시훈1*, 홍지우1, 김형균2, 조정용1

¹전남대학교 융합식품바이오공학과, ²목포수산식품지원센터

P3-04

Cyanidin and pelargonidin malonylglucosides in corncobs of Zea mays L.

Seo-Jin Lee^{1,*}, Ye-seon Won¹, Yu-gin Park¹, Heon-Woong Kim,² and Jeong-Yong Cho¹

¹Department of Integrative Food, Bioscience and Biotechnology, Chonnam National University

²Department of Agro-Food Resources, National Institute of Agricultural Sciences, Rural Development Adminstration

P3-05

Comparative study of phospholipid and fatty acid composition in pork by different cuts and boiling

Ho-Chang Kim*, Eun-Ju Cho, Jeung-Hee Lee

Department of Food and Nutrition, Daegu university, Korea

P3-06

Investigation of sulfur dioxide(SO2) in domestically distributed and sold dried fruits and vegetables

Do-Woo Kim*, Hyo-Hee Kim, So-Young Lim, Su-Yeon Choi, Jin Jeong, Se-Mi Lee, In-Sook Kang, Ae-Gyeong Kim

Health and Environment Research Institute of Gwangju Metropolitan City

P3-07

Qualitative and quantitative analysis of cholesterol in domestic pork

Eun-Ju Cho*, Ho-Chang Kim, Jeung-Hee Lee

Department of Food and Nutrition, Daegu university, Korea

P3-08

Investigation for unripe and ripe chili peppers across pericarp, placenta, and seeds through NMR-based metabolomics approach

Gi-Un Seong^{1*}, Dae-Yong Yun¹, Dong-Hyeok Shin¹, Jeong-Seok Cho^{1,2}, Seul-Ki Park², Gyuseok Lee², Jeong Hee Choi^{1,2}, Kee-Jai Park^{1,2}, Jeong-Ho Lim^{1,2}

¹Food safety and distribution research group, Korea Food Research Institute ²Smart food manufacturing project group, Korea Food Research Institute

P3-09

Analysis of Polycyclic Aromatic Hydrocarbons (PAHs) in food Samples Using the QuEChERS Method

김지현(Gee-Hyeon Kim)*

서울과학기술대학교(Seoul National University of Science and Technology)

P3-10

High purity phosphatidylcholines: Synthesis and Application to Liposome Formulation

Hyeon-Jun Chang*, Jeung-Hee Lee

Department of Food and Nutrition, Daegu University, Korea

P3-11

사료 중 멜라민 및 대사산물 다성분 시험법 정립

이지혜1*, 김대중1, 장은희1, 김효영1, 조형욱2, 이지원2

국립농산물품질관리원 시험연구소¹, 한경국립대학교 산학협력단²

호박씨유 첨가가 대두유 및 카놀라유의 산화 안정성에 미치는 영향

이우진^{1,2*}, 장신¹, 원예선³, 채승훈³, 조정용^{2,3}

¹유맥, ²전남대학교 푸드테크학과, ³전남대학교 융합식품바이오공학과

P3-13

Trichlorobenzenes Quantification in Food: Method Development and Validation

Ki-Yun Kim^{1*}, Jun-Hyeong Park, Hye-Gyeong Lee, Adebayo J. Akinboye, Gee-Hyeon Kim, Joon-Goo Lee

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

P3-14

Feasibility of substituting a platinum crucible in purity test for alkaline or magnesium in nutrient fortifiers(calcium oxide)

Geun hee Cho^{1*}, Ji-Hyun Im², Da-Hyun Ko³, Tae-Woong Song³, Geon Oh², June seok Lim², Xiaolu Fu², Hee-Jae Suh⁴, Sun-II Choi¹, Ok-Hwan Lee²

¹Department of Food Biotechnology, KangwonNational University
²Department of Food Biotechnology and Environmental Science, KangwonNational University
³Department of Food Science and Biotechnology, KangwonNational University
⁴Department of Food Science, Research Center for Food and Bio Convergence, Sun Moon University

P3-15

Development and validation of analytical method for sarmentosin in *Sedum* sarmentosum extract

Da-Hyun Ko^{1*}, Tae-Woong Song¹, Geun hee Cho², Sang Min Park³, Jeong Hyun Seo³ and Sun-Il Choi²

¹Department of Food Science and Biotechnology, Kangwon National University, Chuncheon 24341, Republic of Korea ²Department of Food Biotechnology, Kangwon National University, Chuncheon 24341, Republic of Korea ³Pharmsville Co., Ltd., Seoul 07793, Republic of Korea

P3-16

SWCNT/Graphite/cobalt/chitosan based Nanobiosensor for Metabolite Detection

Dong Sup Kim¹, Jiwon Park², Gyeongrim Jeong², Jinyoung Lee^{1*}

¹Department of Green Chemical Engineering, Sangmyung University, Cheonan, Chungnam 31066, Republic of Korea ²Department of Plant and Food Sciences, Sangmyung University, Cheonan 31066, Republic of Korea

P3-17

대파 건조 조건에 따른 indoxacarb의 잔류량 변화

조미현*, 김명헌, 임재빈, 서창교, 박창현, 임무혁

대구대학교 식품공학과

P3-18

Establishing an HPLC analysis method of Cheonma active ingredients and harvest time

comparison

Hyun Jin Choi^{1.2*}, Ye Seul Kwon^{1.2}, Han-Seok Choi¹

¹Department of Agriculture and Fisheries FoodTech, Korea National University of Agriculture and Fisheries, ²Department of Food Science and Technology, Jeonbuk National University

P3-19

Shortwave Infrared Hyperspectral Imaging for Rapid Detection of Spoiled Red Pepper Powder

Sang Seop Kim^{1*}, Jeong-Seok Cho^{1,2}, Gi-Un Seong¹, Gyuseok Lee², Seungmin Moon², Jeong-Ho Lim^{1,2}

> ¹Food safety and distribution research group, Korea Food Research Institute ²Smart food manufacturing project group, Korea Food Research Institute

P3-20

Validation of test methods for 2-chloroethanol in livestock and fishery products using QuEChERS and GC-MS/MS

Hyeon Hee Gwak, Jeong Ah Park, Ga Hyun Baek, Ji Won Lee, Taek Kyun Choi, Sang Rag Lee, Jae Sung Kim*

KOTITI Testing & Research Institute

P3-21

Estimation of Lycopene, Beta-Carotene, and Lutein Contents in Freeze-Dried Tomato Powder Using SWIR and Vis-NIR Spectroscopy with Machine Learning and 1D-CNN Models

Eunghee Kim*¹, Jong-Jin Park¹, Gyuseok Lee¹, Jeong-Seok Cho^{1,2}, Seul-Ki Park¹, Dae-Yong Yun², Kee-Jai Park^{1,2}, Jeong-Ho Lim^{1,2}

Korea Food Research Institute

P3-22

Comparison of useful chemical properties of mycelium and fruit body from *Tuber* borchii

Seung-Bin Im¹, Dong-Uk Kim¹, Kyung-Je Kim¹, Seong-Woo Jin¹, Young-Woo Koh¹, Neul I Ha, Hee-Gyeong Jeong¹, Dong-Hyeon Lee¹, Sang-Wook Jeong¹, and Kyoung-Sun Seo¹*

'Jangheung Research Institute for Mushroom Industry

P3-23

Temporal trends in polychlorinated dibenzo-*p*-dioxins and dibenzofurans (Dioxins) in shellfish from Korean Coastal areas

YOONMI LEE, Mi-ra Jo, Hyung Jun Park, Hongsik Yu, Kwang Soo Ha*

Food Safety and Processing Research Division, National Institute Fisheries Science,
Busan 460083, Republic of Korea

미생물/발효/안전성

P4-01

Selection of *Bacillus amyloliquefaciens* MYR1-3 for Traditional Jang Production and Comparison with Commercial Jang Manufacturing Strains in Meju Production

Ju-Ho Yeom¹, Jong-Sik Kim², Ho-Yong Sohn¹*

¹Dept. of Food and Nutrition, ²Dept. of Life Science, AndongNational University, Andong, Korea. 36729

P4-02

Pepper-Leaves of Salicho(*Capsicum annuumL*.) as Noble fermentation additive

Ju-Ho Yeom¹, Jong-Sik Kim², Chan-Yong Kim³, Sang-Seok Lee,³

and Ho-Yong Sohn¹*

¹Dept. of Food and Nutrition, ²Dept. of Life Science, AndongNational University, Andong, Korea. 36729 ³Yeongyang Pepper Research, Gyeongsangbuk-Do Agricultural Research & Extension Services, Daegu, Korea. 41404

P4-03

Microbiological Quality and Microbial Community Profile of Salted Shrimp (*Saeu-jeot*) Fermented in Underground Tunnel

Yeongsil Lim¹, Hyungjin Cho¹, Heeyeong Lee², and Jeeyeon Lee^{1*}

¹Department of Food & Nutrition, Dong-eui University, Korea ²Food Standard Research Center, Korea Food Research Institute, Korea

P4-04

Antibacterial activity of Vaccinium oldhamii fruit against Helicobacter pylori

Jungwoo Chae¹, Huiseon Jo^{1*}, Jong-Hun Ha², Min-Kyoung Shin², Woo-Kon Lee²

¹Gyeonggido Forest Environment Research Center

²Department of Microbiology, Gyeongsang National University College of Medicine

P4-05

Application of deep learning for predictive modeling of foodborne pathogens in growth media and food samples

Hwa-Young Lee*, Sang-Soon Kim

Department of Food Engineering, Dankook University, Cheonan, Chungnam 31116, Republic of Korea

Correlation of functional components by microbial community of fermentants (Nuruk)

Su Jeong Lee*, Woo Soo Jeong, Soo-Hwan Yeo, Chan-Woo Kim, Bo-Ra Lim Fermented and Processed Food Science Division, Department of Agrofood Resource, NIAS, RDA

P4-07

Changes in quality characteristics during storage of Korean soy sauce added with onion juice according to heat sterilization conditions

Eun Hye Kim^{1*}, Su Hawn Kim², Won Hee Lee¹, Jun Seo Jang¹, Seong Gyun Kim¹, Chang Ki Huh¹,²

'Department of Food Science and Technology, Sunchon National University

'Research Institute of Food Industry, Sunchon National University

P4-08

산업용 유산균 starter(10종)를 이용한 갈색거저리 유충(*Tenebrio molitor larva*)의 발효적성 탐색 및 선별

Jun Seo Jang^{1*}, Su Hawn Kim², Eun Hye Kim¹, Won Hee Lee¹, Ji Won Shin¹, Hyun jin Kim³, Yeng hee Yu³, Chang Ki Huh¹,²

¹Department of Food Science and Technology, Sunchon National University ²Research Institute of Food Industry, Sunchon National University ³Wormplace

P4-09

Comparison of quality characteristics based on the fermentation period of mealworms fermented with an industrial lactic acid bacteria starter (5 types)

Jun Seo Jang^{1*}, Su Hawn Kim², Eun Hye Kim¹, Won Hee Lee¹, Hyun jin Kim³, Yeng hee Yu³, Chang Ki Huh¹,²

¹Department of Food Science and Technology, Sunchon National University ²Research Institute of Food Industry, Sunchon National University ³Wormplace

P4-10

경기도내 유통 와인의 잔류농약 실태조사

신상운*, 김재관, 이현경, 이유진, 김지은, 백은진, 김병태, 최종철, 이성남, 박명기 경기도보건환경연구원 농수산물검사부 서부농산물검사소

P4-11

Characterization of potential probiotics isolated from fermented foods from an island region

Bohyun Yun^{1,2*}, Jung Up Park^{1,2}, Seo-Young Kim^{1,2}, Ji-Won Park^{1,2}, Sungmin Hwang^{1,2}, Chul-Min Park^{1,2}, Hyun-Kyung Song^{1,2}, Haneul Kim², Sori Kang², Go Kyoung Na^{1,2}, Jisoo Kim^{1,2}, SongYi Han^{1,2}, Kyung-Min Choi^{1,2}, WonWoo Lee^{1,2}

¹Departement of Integrative Bioresources, Honam National Institute of Biological Resources

²Advanced Research Center for Island Wildlife Biomaterials, Honam National Institute of Biological Resources

P4-12

친환경 및 저탄소 농산물의 잔류농약 실태조사

김지은*, 김재관, 신상운, 이정희, 이유진, 백은진, 김병태, 이성남, 박명기

경기도보건환경연구원 안산농수산물검사소

P4-13

Compare of the thermal resistance between *Bacillus* strains and sterilization indicator microorganism

Ju-hee Nam*, Du-yeong Jung, Zi-on Choi, Hyun-jung Jung, Jung-beom Kim

Department of Food Science and Technology, Sunchon National University

P4-14

머신러닝기반 음성인식 의도 분석 시스템을 통한 수입 식품 정보 전달 기법

박준우, 김영덕*

대구경북과학기술원 ICT연구본부

P4-15

IoT기반 수입 식품 정보 조회 및 전달을 위한 스마트 TV 어플리케이션 개발

박준우, 김영덕^{*}

대구경북과학기술원 ICT연구본부

P4-16

Enhanced control efficacy of *Bacillus subtilis* NM4 via integration of chlorothalonil on potato early blight caused by *Alternaria solani*

Ye-Seon Won^{1*}, Si-Hun Song¹, Jun Su Noh², Seo Hyun Hwang², Chaw Ei Htwe Maung³, Jeong-Yong Cho¹, Kil Yong Kim²

¹Department of Department of Integrative Food, Bioscience and Biotechnology, Chonnam National University

²Department of Agricultural Chemistry, Chonnam National University ³Department of Agricultural and Biological Chemistry, Chonnam National University

P4-17

발효기반 국산 곡물원료를 사용한 비건 제과·제빵류 개발

정윤지1* 백세은1김명선1백지환1윤지애2

¹광주대학교 식품영양학과 ²힐사이드양림

P4-18

Characterization of acid production and aroma profiles in four *Acetobacter pasteurianus* strains isolated from Korean traditional vinegar

Rich Son*, Joo-Yeon Kim, Soo-Hwan Yeo, Ji-Ho Choi, Chan-Woo Kim

Fermented and Processed Food Science Division, National Institute of Agricultural Sciences, RDA

P4-19

흰점박이꽃무지 유충 세척수 및 열수 데침 시간에 따른 미생물 분석

이예슬¹, 박경민², 이현동^{1*}

¹ 농촌진흥청 국립농업과학원 수확후관리공학과, ² 농촌진흥청 국립농업과학원 유해생물과

P4-20

The effects of high-themperature treatment on the quality of makgeolli

Ji-Youn KIM*, Ji-Eun Kang, Gui-Jung Han, Bo-Ra Im

Fermented & Processing Food Science Division, National Institute of Agricultural Sciences, RDA, Wanju,
Korea

P4-21

Monitoring result of mycotoxins from foods distributed in Daegu

Eun-ji Ha^{*}, Hyeon-min Jang, Eun-jin Lee, Soo-jin Kwon, Yeon-soo Kim, Jun-tag Lee

Health and Environment Research Institute of Daegu

P4-22

그린바이오기술을 활용한 바이오양액 제조 및 천연물 소재화

백다예^{*1}, 최현아¹, 서경민¹, 백지환¹,윤지환²

*광주대학교 식품영양학과*1

아따달다2

P4-23

Analysis of quality characteristics of black barley makeeolli according to production and fermentation periods

Soo-Young Lee*, Hee-Min Gwon, Joo-Yeon Kim, Soo Jeong Lee, Ji-Ho Choi, Hyun-wook Jang, Fermented & Processing Food Science Division, Department of Agrofood Resource, National Institute of Agricultural Sciences, RDA

P4-24

Optimization of Culture Conditions for *Acetobacter pasteurianus* Strains for Fermentation Starter Production

Joo-Yeon Kim*, Rich Son, Sun-Hee Kim, Soo-Hwan Yeo, Ji-Ho Chio and Chan-woo Kim Fermented And Processed Food Science Division, National Institute of Agricultural Science, RDA

P4-25

Production of γ -aminobutyric acid by batch fermentation of *Lactobacillus brevis* FBL-4 from agricultural wastes such as rice bran and wheat bran

Hyun-Gyu Lee^{1*}, Jong-Hun Jang², Ji-In Kim¹, Young-Jung Wee¹

¹Department of Food Science and Technology, Yeungnam University ²R&D Institute, MSC Co., LTD.

P4-26

Rebaudioside A and rebaudioside E with α -1,6-glucosylated dervatives were simultaneously produced from the *Leuconostoc citreum*

Ok Cheol Kim^{1*}, Seong-Jin Hong¹, Da Eun Jang¹, Hye-Jin Kim¹, Young-Min Kim¹

¹Department of Integrative Food, Bioscience and Biotechnology, Chonnam National University, Gwangju 61186, South Korea

P4-27

Enterotype-specific Changes in the Intake Soybean paste and Their Effects on the Human Gut Microbiota

Ji-Won Seo, Gwang su Ha, Hee-Jong Yang and Do-Youn Jeong*

Microbial Institute for Fermentation Industry (MIFI), Sunchang 56048, Korea

P4-28

Microbial biomarker discovery and comparative microbiome analysis in Cheonggukjang supplied Bacillus subtilis SRCM102751, using next generation sequencing

Hee Gun Yang, Ji Won Seo, Gwangsu Ha, Hee-Jong Yang and Do-Youn Jeong*

Microbial Institute for Fermentation Industry (MIFI), Sunchang 56048, Korea

P4-29

Quality Analysis of Cheonggukjang Using Complex Microbial Starters Isolated from Traditional Cheonggukjang

Myeong Seon Ryu, Young Kyoung Park, Jinwon Kim, Hee-Jong Yang and Do-Youn Jeong*

Microbial Institute for Fermentation Industry (MIFI), Sunchang 56048, Korea

P4-30

Enhancement of microbial safety and quality maintenance of fresh produce by using caprylic acid and mild heat

Minyeong Jung*, Yeonju Kim, and Jaewoo Bai

Department of Food Science and Technology, Seoul Women's University, Korea

P4-31

Effect of disinfectant on microbial reduction of vegetables

Du-Yeong Jung*, Ju-Hee Nam, Zi-On Choi, Hyun-Jung Jung, Jung-Beom Kim

Department of Food Science and Technology, Sunchon National University

P4-32

Complete genome sequences of acetic acid-producing Acetobacter pasteurianus GHA7

Sun Hee Kim*, Hyun-Wook Jang, Jin-Ju Park, Chan-woo Kim, Su Jeong Lee, So-Young Kim

Fermented and Processed Food Science Division, Department of Agrofood Resources, NIAS, RDA, Wanju 55365, Korea

P4-33

Identification of the antibacterial substances from a fermented extract from green tea leaves with *Saccharomyces cerevisiae*

Jong-Woong Nam*, Ga-Yang Lee, Min-Jeong Jung, Jin Lee, Ju-Yeon Park, Ji-Seong Hong, Byoung-Mok Kim, Joon-Young Jun

Korea Food Research Institute

P4-34

Quality characteristics of mash depending on quantity of barley added for developing barley-distilled *soju*

Ye Seul Kwon^{1-2*}, Jisu Lee¹⁻², Han-Seok Choi¹

¹Department of Agriculture and Fisheries FoodTech, Korea National University of Agriculture and Fisheries, ²Department of Food Science and Technology, Jeonbuk National University

P4-35

Cyclodextran Synthesis from starch utilizing TtClTase from *Thermoanaerobacter* thermocopriae

Seong-Jin Hong*^{1,2}, Chang Hee Park² & Young-Min Kim²

¹Research Institute of Agricultural Science and Technology, Chonnam National University, Gwangju

²Department of Integrative Food, Bioscience and Biotechnology, Chonnam National University, Gwangju

61186, S. Korea

P4-36

Physiochemical Properties of Doeanjang Fermented with *Monascus Koji* and *Aspergillus Koji*

Jun-Hyung Lim*, In-Ja Lee, Yong-Soo Lee and Mi-Ryung Kim

Department of Food Science and Culinary Art, Silla University, Republic of Korea

P4-37

Analysis of the setomimycin biosynthetic gene cluster from *Streptomyces nojiriensis* JCM3382 and evaluation of its α -Glucosidase inhibitory activity using molecular docking and molecular dynamics stimulations

Kyung-A Hyun*¹, Xuhui Liang², Yang Xu², Seung-Young Kim³, Kyung-Hwan Boo¹, Jin-Soo Park⁴, Won-Jae Chi⁵, and Chang-Gu Hyun²

(¹Dept. Biotech. Coll. Appl. Life Sci. Jeju Univ., ²Dept. Beaut. Cosmetol. Jeju Inside Agy. Cosmetic Science Ctr. Jeju Univ., ³Dept. Pharm. Eng. Biotech, Sunmoon Univ., ⁴Nat. Prod. Info. Res. Ctr. KIST Inst. Nat. Prod., ⁵Gen. Res. Ass. Div. Nat. Inst. Bio. Res.) P4-38

고춧가루 조제 과정 중 이산화염소를 활용한 농약의 저감화 효과 검증

유다영*, 조재윤, 이효섭, 김향희

국립농업과학원 농산물안전성부 잔류화학평가과

P4-39

고추 중 이산화염소를 이용한 Indoxacarb 등 5종 농약의 저감화 효과 검증

조재윤*, 유다영, 이효섭, 김향희

국립농업과학원 농산물안전성부 잔류화학평가과

P4-40

A novel encapsulation system using sodium alginate/cellulose nanofiber for increasing the stability of probiotic *Lactiplantibacillus plantarum* CJLP 133

Hyeon Ji Jeon*, Gyu Ri Shin, Hye Min Jeong, Young Hoon Jung

School of Food Science and Biotechnology, Kyungpook National University

P4-41

Anti-Diabetic and Anti-Inflammatory Effects of Heat-Killed *Lactococcus lactis* subsp. *cremoris* IMCCL013 in LPS-stimulated RAW 264.7 Macrophages

Min Gyeol Kim, Baul Yang, Yu Jin Choi1*

Imsil Cheese & Food Research Institute

P4-42

Synthesis and characterization of alpha-glucosylated rebaudioside D using glucosyltransferases

Hye-jin Kim¹*, Seong-Jin Hong², Da Eun Jang¹, Ok Cheol Kim¹, Jeong-Yong Cho¹, Boo-Su Park³, Young-Min Kim¹

1 Department of Integrative Food, Bioscience and Biotechnology, Graduate School of Chonnam National University, Gwangju, 61186, S. Korea

2 Research Institute of Agricultural Science and Technology, Chonnam National University, Gwangju 61186, S. Korea

3 Food Biotech R&D Center, Samyang Corp., Seongnam-si, Republic of Korea

P4-43

Production of caffeine-reduced kombucha and measurement of fermentation characteristics

Da Eun Jang^{1*}, Seong-Jin Hong³, Hye jin Kim¹, Ok Cheol Kim¹, Young-Min Kim^{1,2}

¹Department of Integrative Food, Bioscience and Biotechnology, Chonnam National University, Gwangju 61186, South Korea

²Department of Food Science and Technology, Chonnam National University, Gwangju 61186, South Korea

³Research Institute of Agricultural Science and Technology, Chonnam National University, Gwangju 61186, S. Korea

P4-44

참외의 스마트 세척기술 개발 및 현장검증 연구

민주현1*, 이효섭², 김향희², 정건희³

¹경북대학교 식품공학부 ²국립농업과학원 농산물안전성부 잔류화학평가과 ³임실치즈앤식품연구소

P4-45

A Study of the Quality Characteristics of Wine Made from Imsil Peaches

Se Yeon Choi*, Youn Kyung Cho*, Joo Hee Hong, Gun Hee Jung, Young Yoon

*Food research & development Team, Imsil Cheese & Food Research Institute

P4-46

Evaluation of anti-inflammatory effects of *Lacticaseibacillus rhamnosus* L22-FR28 (KACC 92513P) isolated from infant feces in an animal model

Seoyeon Kwak*, So-Young Kim

Department of Agrofood Resources, National Institute of Agricultural Science, RDA, Wanju, 55365, Korea

P4-47

Development of a phage cocktail as a novel antibacterial strategy against pathogenic Escherichia coli

Gahyeon Nam^{1*}, Wonjae Lee¹, Hakdong Shin², Bokyung Son¹

Department of Food biotechnology, Dong-A University,

Department of Food Science and Biotechnology, Sejong University

P4-48

Isolation and characterization of novel bacteriophages as biological control agents against *Bacillus licheniformis* in dairy products

Minji Kim*, Jae Hyeok Jeon, Bokyung Son

Department of Food biotechnology, Dong-A University

P4-49

Antibacterial activity and physiological characteristics of lactic acid bacteria isolated from pet dogs

Hwa Seol Ryu, Chun Pyo Jeon, Seung Hun Han*

Department of Bio Vaccine and Pharmaceutical, Andong Science College

P4-50

Development and validation of a strain-specific genome marker for monitoring *Bacillus* velezensis NY12-2 among *Bacillus* Species

SeongEui Yoo*, SeoYeon Kwak, SeungA Woo, Hyun-Wook Jang, So-Young Kim Department of Agrofood Resources, National Institute of Agricultural Sciences, RDA

P4-51

Intake of Major Microorganisms in *Meju* and *Cheonggukjang*. Analysis Using KNHANES Data

Seung-A Woo*, SeungEui Yoo, So Young Kim

National Institute of Agricultural Science, RDA, Wanju, 55365, Korea

P4-52

Development of Bacterial Nanocellulose Based Core-Shell Gels as a Novel Encapsulant for Target Delivery of Probiotics

Gyu Ri Shin*, Hyeon Ji Jeon, Hye Min Jeong, and Young Hoon Jung School of Food Science and Biotechnology, Kyungpook National University

P4-53

Quality assessment of fermentation agents (Koji and Nuruk) for the production of collagen Makgeolli

Rye Gyeong Park^{1*}, Jun-Hyung Lim¹, Soo Hyun Han¹, Sang-Jae Lee¹, Yong-Soo Lee¹, Jae Hak Sohn^{1,2} and Mi-Ryung Kim¹

¹Department of Food Science and Culinary Arts, Silla University, ²Seafood Research Center, IACF, Silla University

P4-54

Isolation and identification of proteolytic and acidogenic microorganisms from squid viscera

Ji-Yun Oh^{1*}, So-Yeon Sim¹, Divya Gupta¹, Jong-Hyeon Lee¹, Jun-Hwan Bae¹, Hyeon-Ki Choi², Sae-Byuk Lee^{1,2,3}

¹School of Food Science and Biotechnology, Kyungpook National University, ²Department of Fermentation Biotechnology, Kyungpook National University, ³Institute of Fermentation Biotechnology, Kyungpook National University

P4-55

Quality characteristics and nutritional properties of high-oleic acid *Doenjang*Bu-Gyeong Son^{1*}, Yeong-Jun Kim¹, Su-Hyun Lee¹, Jong-Hyeon Lee¹, Jun-Hwan Bae¹, So-Yeon Kim²,

Jeong-Dong Lee³, and Sae-Byuk Lee^{1,2,4}

¹School of Food Science and Biotechnology, Kyungpook National University, ²Department of Fermentation Biotechnology, Kyungpook National University, ³School of Applied Biosciences, Kyungpook National University, ⁴Institute of Fermentation Biotechnology, Kyungpook National University

P4-56

Optimization of production conditions of microbial exopolysaccharide by *Mitsuaria* chitosanitabida for industrial applications

Ye-Na Lee^{1*}, Yeong-Jun Kim¹, Su-Hyun Lee¹, So-Yeon Sim¹, Divya Gupta¹, So-Yeon Kim², Hyeon-Ki Choi² and Sae-Byuk Lee^{1,2,3}

¹School of Food Science and Biotechnology, Kyungpook National University, ²Department of Fermentation

P4-57

Optimization of Monacolin-K production and physiological activities for fermentation products of solid-stated fermentation with *Monascus ruber* KACC45308

Jeong-Ha Lee, Jun-Tae Kim, Suyeon Gu, Seungwha Jo, Sung-ho Cho, Do-Youn Jeong

Microbial Institute for Fermentation Industry(MIFI), Sunchang-gun 56048, Republic of Korea

P4-58

Enhanced quality characteristics of brandy aged with oak chips from domestic Grapes

Jun-Su Choi^{1,2*}, Bu-Gyeong Son¹, Ji-Yun Oh¹, Ye-Na Lee¹, Kyu-Taek Choi¹, Sae-Byuk Lee^{1,2}

¹School of Food Science and Biotechnology, Kyungpook National University, ²Institute of Fermentation Biotechnology, Kyungpook National University

P4-59

Analysis of Quality Characteristics of *Meju* and *Doenjang* by type of Mold Starter with *Aspergillus oryzae*

Jin-Kyeong Kim *, Sung-Ho Cho, Do-Youn Jeong

Microbial Institute for Fermentation Industry

P4-60

Screening of citrinin-free *Monascus ruber* KACC45308 for Monacolin-K production and optimization of spore production in Submerged Culture

Jun-Tae Kim*, Jeong-Ha Lee, Sung-ho Cho, Do-Youn Jeong

Microbial Institute for Fermentation Industry(MIFI)

P4-61

Development of Initial Screening Model for Pesticide Residues in Agricultural Fields Using National and Regional Monitoring Data

Sang-Ik Suh^{1*}, Chang-Jun Lee¹, Jinuk Jang¹, Boram Kim², Dawon Kim², Bumseok Lee², Hyo-Sub Lee³, Min-Ho Son⁴, Seo Jin Ki²

¹Department of Energy System Engineering, Gyeongsang National University, ²Department of Environmental Engineering, Gyeongsang National University, ³Chemical Safety Division, Agro-Food and Crop Protection Department, NAS, ⁴Podo inc.

P4-62

Fermentation characteristics of green and red kimchi cabbages (*Brassica rapa*. L. ssp. *pekinensis*) with WiKim0121

Seung-Min Oh1*, Jiyeon Chun1,2

¹Department of Food Science and Technology, Sunchon National University, Korea ²Kimchi Science and Industrialization Institute, Sunchon National University, Korea

생리활성/영양/기능성

P5-01

Comparison of physicochemical properties between pepper leaf and pepper fruit harvested from Korean native pepper variety

> Ju-Ho Yeom¹, Eun-Seo Im¹, Jong-Sik Kim², Chan-Yong Kim³, Sang-Seok Lee,³ Ho-Yong Sohn¹*

> > 'Dept. of Food and Nutrition, ²Dept. of Life Science, AndongNational University, Andong, Korea. 36729

³Yeongyang Pepper Research, Gyeongsangbuk-Do Agricultural Research & Extension Services, Daegu, Korea. 41404

P5-02

Typha sp., domestic freshwater aquatic plants could be developed as potent anti-thrombotic, anti-diabetic and anti-oxidant agent

Ju-Ho Yeom¹, Eun-Seo-Im¹, Jong-Sik Kim² and Ho-Yong Sohn¹*

¹Dept. of Food and Nutrition, ²Dept. of Life Science, Andong National University, Andong, Korea. 36729

P5-03

Comparison of functional components and biological activities in domestic legumes of soybean and adzuki bean

Narae Han^{1*}, Hyun-Joo Kim¹, Jung Hyun Seo², Jin Young Lee¹, Hyeonmi Ham¹, Jiyoung Park¹, Mihyang Kim¹, Yu-Young Lee¹, Moon Seok Kang¹

¹Crop Post-Harvest Technology Division, Department of Central Area Crop Science, National Institute of Crop Science, Rural Development Administration, ²Department of Southern Area Crop Science, National Institute of Crop Science, Rural Development Administration

P5-04

Catalpa bignonioides extract improves exercise performance through regulation of growth and metabolism in skeletal muscles

Su-Hyeon Cho*, Kil-Nam Kim

Gwangju Center, Korea Basic Science Institute, Gwangju 61751, Republic of Korea

P5-05

Anti-oxidant, whitenning and anti-obesity effects of red fleshed pitaya(*Hylocereus polyrhizus*) extract

Rina Lee¹*, Myunghyup Oh¹, Jungmin Lee¹, Hyunju Lee¹, Jaehong Park¹, Aekyoung *Moon¹*, *Soonyeong Kim¹*

¹Jeju Special Self-Governing Province Agricultural Research and Extension Services

LC-MS 기반 품종에 따른 자색무의 무와 무청의 유용성분 변화

채승훈¹, 이선진², 최원영², 홍지우², 이상현¹, 문재학²,조정용^{2*}

¹전남대학교 원예학과 및 IT-Bio융합시스템전공 ²전남대학교 융합식품바이오공학과

P5-07

Emodin-8-β-D-glucoside derived from *Reynoutria japonica* ameliorates *Dermatophagoides farinae* extract-induced atopic dermatitis-like skin inflammation in mice by inhibiting JAK/STAT signaling

Hyun-Kyung Song^{1,*}, Ki-Shuk Shim², Musun Park³, Hye Jin Kim², Seol Jang², WonWoo Lee¹, Kyung-Min Choi¹, Ki Mo Kim², Taesoo Kim²

¹Division of Practical Research, Honam National Institute of Biological Resources ²KM Convergence Research Division, Korea Institute of Oriental Medicine ³KM Data Division, Korea Institute of Oriental Medicine

P5-08

Inhibitory effect of Quercetin of pro-inflammatory cytokines in *Pseudomonas aeruginosa* infected A549 cells

Ji-Won Park^{1,*}, Jung Up Park^{1,*}, HyeIn Ahn⁴, Seung-Ho Kim^{2,3}, Da-Yun Seo², SongYi Han¹, Kyung-Seop Ahn², WonWoo Lee^{1,†}

¹ Practical Research Division, Honam National Institute of Biological Resources (HNIBR), Mokpo 58762, Republic of Korea

² Natural Medicine Research Center, Korea Research Institute of Bioscience and Biotechnology, cheongju-si, Chungcheongbuk-do 28116, Republic of Korea.

³ Division of Life Sciences, Korea University, Seoul 02841, Republic of Korea ⁴ Life Science Research Center, Nine BiopharmCo., LTD. Cheongju 28161, Republic of Korea

P5-09

A Study on the Metabolite profiling of Traditional Meju Produced by Region using GC-TOF

Daejung Kim*, Haejin Kim, and Hyunjeong Cho

Experiment & Research Institute, National Agricultural Products Quality Management Service, Gimcheon, Korea.

P5-10

Evaluation of the Usability of Leaves of Korean Tea Cultivar 'Sangnok' as Food Additives

Yun-Suk Kwon, Ha Rim Hong, Byung-Hyuk Kim, Eun Yong Song, Doo-Gyung Moon*
Research Institute for Climate Change and Agriculture, National Institute of Horticultural & Herbal
Science, Jeju 63240, Republic of Korea

P5-11

Antioxidant Effect and Total Polyphenol Contents of Leaves of Korean Tea Cultivar 'Kumnok'

Yun-Suk Kwon, Byung-Hyuk Kim, Ha Rim Hong, Eun Yong Song, Doo-Gyung Moon*

Research Institute for Climate Change and Agriculture, National Institute of Horticultural & Herbal Science, Jeju 63240, Republic of Korea

P5-12

해남산 참쑥의 수확시기별 항균활성 및 항산화활성

김남의12*, 김현진3, 유영희13, 허창기1

1순천대학교 식품공학과, 2해남군농업기술센터, 3웜플레이스

P5-13

갈색거저리 발효산물을 이용한 장건강 기능성 펫푸드의 항산화 활성

유영희12*, 나영숙², 김현진², 허창기¹

¹순천대학교 식품공학과, ²웜플레이스

P5-14

Anti-oxidant and Anti-inflammatory Effect of Beneficial Bacteria and Harmful Components in ethanol extraction from Traditional Korean *Cheonggukjang*

Kyung Eun Moon^{1)*}, Hyeon Hwa Oh¹⁾, Byung-Min Oh¹⁾, Do Youn Jeong²⁾, Young-Soo Kim¹⁾

¹⁾Department of Food Science and Technology, Jeonbuk National University, Korea ²⁾Microbial Institute for Fermentation Industry (MIFI), Korea

P5-15

Effect of Beneficial Bacteria and Harmful Components in Traditional Soybean paste on the Anti-oxidant and Anti-inflammatory Activities

So-Won Jang^{1)*}, Do Youn Jeong²⁾, Geun-Seoup Song¹⁾

¹⁾Department of Food Science and Technology, Jeonbuk National University, Korea, ²⁾Microbial Institute for Fermentation Industry (MIFI), Korea

P5-16

Inhibitory activities of lignanamides on tyrosinase

Jang Hoon Kim*, Kyung-Sook Han, Eun-Song Lee, Yong-Goo Kim, Yong-IL Kim, Jin-Tae Jeong,
Dong Hwi Kim

Department of Herbal Crop Research, National Institute of Horticultural & Herbal Science, RDA, Eumsung 27709, Republic of Korea

P5-17

오디 숙도에 따른 폴리페놀 화합물 함량 및 항염증 활성 비교

이지혜*, 조영희, 박종우, 김성완, 김성렬

농촌진흥청 국립농업과학원 농업생물부, 전북 완주군, 55365

P5-18

Development of energy bars using apples, pomegranates, and beet wastes for elderly health, and their antioxidant activities

So Hyun An*, So Yeon Kim, Hye Won Kang, Hye-Lim Jang

Department of Food and Nutrition, Dong-eui University

약용식물 열수추출물의 기능성분 및 인체 폐암세포 항증식 활성

조미애*, 이창무, 최호칠, 박종철

사단법인 천수 산약초연구회

P5-20

Preparation of Soy Protein Hydrolysate by Enzymatic Hydrolysis

Eun Chae Lee^{1*}, Min Ji Kang¹, Eun Ji Lee¹, Hae Jin Kim¹, Do Wan Kim ² Kyung Young Yoon¹

¹ Department of Food and Nutrition, Yeungnam Univers, ² Department of Food and Pharmaceuticals, Jungwon University

P5-21

α-lonone alleviates chronic UVB exposure-induced skin photoaging in mice

Ruixuan Geng, Jingya Guo, Tao Tong*

Key Laboratory of Precision Nutrition and Food Quality, Key Laboratory of Functional Dairy, Ministry of Education; College of Food Science and Nutritional Engineering; China Agricultural University

P5-22

Optimization of enzyme-assisted extraction condition for producing soluble dietary fiber with antidiabetic activity from brewer's spent grain using response surface methodology Se Yul Lee*, Si Hyung Lee, Min Ji Kang, Eun Chae Lee, Kyung Young Yoon

Department of Food and Nutrition, Yeungnam Univers

P5-23

Molecular Docking of the *Gardenia jaminoides* Seed Ingredients for Tyrosinase and Elastase Inhibition

Jae-Sik Nah^{1*}, Bo-Rim Song¹, Young-Jin Jo¹, Won-Sik Choi² and , Sang-Han Lee^{1,3}

¹Department of Food Science and Biotechnology, Kyungpook National University, Daegu 41566, Korea

²Research Institute, Jeonjin Bio Co., Ltd., Daegu 42703, Korea

³Food and Bio-Industry Research Institute, Inner Beauty/Anti-Ageing Center, Kyungpook National University, Daegu 41566, Korea

D5_2/

Fangchinoline, a major alkaloid of *Stephania tetrandra* S. Moore, inhibits adipogenesis of 3T3-L1 cells

Gyu-Hyeon Park*, Su-bi Lee, Syng-Ook Lee

Department of Food Science and Technology, Keimyung University, Korea

P5-25

Fetal bovine serum substitution efficacy of mealworm (*Tenebrio molitor*) protein hydrolysates and its physicochemical properties

Jeong-Min Lee*, Hyo-Seon Lee, Syng-Ook Lee

Department of Food Science and Technology, Keimyung University

Anti-oxidant and anti-proliferation effect of *Euonymus alatus (Thunb.)* Siebold. leaf extract

Seong-mi Park^{1*}, Hye-ji Min¹, Won-joo Yoon², Kwon-il Seo¹

¹Department of Food Biotechnology, Dong-A University, Korea

²Department of Bioscience and Biotechnology, Kyushu University, Japan

P5-27

Antioxidative activities of various solvent extracts from leaves and fruis of Fig (*Ficus carica* L)

Hyo-jeong Yun¹, Cho-een Kim¹, Jaeyong Kim¹, So Mi Lee², Gyuok Lee^{1*}

¹Jeonnam Bio Foundation, Jeonnam Institute of Natural Resources Research (JINR), Jeollanamdo 59338, Republic of Korea

²Fruit Research institute of Jeollanamdo Agricultural Research and Extension Services, Haenam, 59021, Korea)

P5-28

청태전 농축액 가글이 구강 미생물에 미치는 영향

김은혜*, 안호섭, 김지영, 박현석, 정수진, 조혜성, 최정, 고숙주

전라남도농업기술원

P5-29

Polyphenol and Flavonoid Compound Contents, and Antioxidant Activity of *Carica* papaya Seed Water Extract

Jeong Sook Moon, Yang Suk Lee, Su Jeong Seo*

Department of Herbal Biotechnology, Daegu Haany University, Gyeongsan, Gyeongbuk 38610, Korea

P5-30

Useful Ingredients and Antioxidant Activities of Extracts from Seeds of Carica papaya

Yang Suk Lee, Jeong Sook Moon, Su Jeong Seo*

Department of Herbal Biotechnology, Daegu Haany University, Gyeongsan, Gyeongbuk 38610, Korea

P5-31

Changes in The Functional Ingredient Content of *S. glabrescens* Hot Water Extract According to the Number of Steaming Times Using Makgeolli

Cha-Yeon Kim, Su-Jeong Seo, Yang-Suk Lee*

Department of Herbal Biotechnology, Daegu Haany University

Antioxidative Activities of Hot Water Extract from of *S. glabrescens* Steaming Using Makgeolli

Su-Jeong Seo, Cha-Yeon Kim, Yang-Suk Lee*

Department of Herbal Biotechnology, Daegu Haany University

P5-33

Amino acid derivatives of monascus pigments with inhibitory activity against cholesterol biosynthesis

Dayoung Bok^{1*}, Hana Cho², Yeongjun Kim¹, Nahyeon Kim¹, Deokyeong Choe¹

¹School of Food Science and Biotechnology, Kyungpook National University, ²Department of Biotechnology, Yonsei University

P5-34

Study on the antioxidant and anti-inflammatory efficacy of strawberries cultivated in Imsil from Korea in HaCaT keratinocytes

Joo Hee Hong*, Gun Hee Jung, Se Yeon Choi, Youn Kyung Cho, Young Yoon
*Food research & development Team, Imsil Cheese & Food Research Institute

P5-35

Development of a beverage with antibacterial, antioxidant, and anti-inflammatory activities from a mixture containing extracts of Omija (*Schizandra chinensis*), pear (*Pyrus pyrifolia*), and Doraji (*Platycodon gradiflourm*)

Hyeonsoo Lim, Jihye Lee, Chun Pyo Jeon, Seung Hun Han* Department of Bio Vaccine and Pharmaceutical, Andong Science College

P5-36

Development of herbal medicine complex composition effective for inflammation and insomnia

Moonseok Kwon¹, Youngjun Kim¹, Yun-Hoe Kim², Chun Pyo Jeon¹, Seung Hun Han¹*

¹Department of Bio Vaccine and Pharmaceutical, Andong Science College ²Agricultural Corporation Natural N Co., Ltd.

P5-37

Comparative analysis of antioxidant and antimicrobial activities of wild berries from Mongolia

Buyanbadrakh Enkhbolor 1*, Jun-Hyun Oh1

¹Department of Food Science and Technology, Sangmyung University

Production and functional properties of phycocyanin obtained from *Galdieria sulphuraria* 074G2

Ga-Min Choi^{1*}, Jun-Hyun Oh¹

¹Department of Food Science and Technology, Sangmyung University

P5-39

Enzymatic Preparation and Antioxidant Activities of Protein Hydrolysates from *Locusta migratoria*

Go-Eun Ko*, Woo-Jeong Do, Chae-Eun Kim, Dong-Min Shin, Syng-Ook Lee

Department of Food Science and Technology, Keimyung University

P5-40

Development and Refinement of a Personalized Health Functional Food Recommendation Algorithm Based on the National Health and Nutrition Examination Survey(KNHANES)

Jun Gu Lee^{1,2,3}*, Sang Gyeong Lee², Hyeock Yoon², Jung Hyeon Park^{1,3}, Bok Kyung Han^{1,2}, Young Jun Kim^{1,2,3}, Ji Youn Hong^{1,2}

¹Department of Food and Biotechnology, ²Department of Food Regulatory Science ³BK21 FOUR Research Education Team for Omics-based Bio-health on Food Industry, Korea University, Korea

P5-41

Useful components and biological activity of *Houttuynia cordata* whole plant ethanol extract

Kyeong-Won Yun¹, Kyung-Je Kim², Seong-Woo Jin², Young-Woo Koh², Seung-bin Im², Neul I Ha², Hee-Gyeong Jeong², Sang-Wook Jeong², Yu Jin Choi³, and Kyoung-Sun Seo^{2*}

¹Department of Oriental Medicine Resources, Sunchon National University

²Jangheung Research Institute for Mushroom Industry ³Imsil Cheese & Food Research Institute

P5-42

Whitening activity of *Stachys sieboldii* tuber fermented with ushroom mycelia

Seung-bin Im¹, Kyung-Je Kim¹, Seong-Woo Jin¹, Young-Woo Koh¹,

Neul I Ha¹, Hee-Gyeong Jeong¹, Sang-Wook Jeong¹, Dong-Hyeon Lee¹, Dong-Uk Kim¹, Kyeong

Won Yun², Yu Jin Choi³, Kyoung-Sun Seo^{1*}

¹Jangheung Research Institute for Mushroom Industry ²Department of Oriental Medicine Resources, Sunchon National University ³Imsil Cheese & Food Research Institute

P5-43

A 4-Week, Randomized, Double-Blind Clinical Trial to Evaluate the Efficacy and Safety of

Red Pepper Paste (Gochujang Powder) Intake on Intestinal Microbiome and Improved Bowel Movements

Hui-Yeon Jang^{1*}, Eun-Ock Park¹, Mi-Rae An¹, Su-Jin Jung^{1,3}, Hee-Jong Yang², Gwang-Su Ha², Seung-Ok Lee^{1,3,4}, Soo-Wan Chae^{1,3}

¹ Clinical Trial Center for Functional Foods, Jeonbuk National University Hospital

² Microbial Institute for Fermentation Industry(MIFI)

³ Biomedical Research Institute, Jeonbuk National University Hospital

⁴ Division of Gastroenterology and Hepatology, Jeonbuk National University Hospital

P5-44

Anti-inflammatory effect of fucoidan from *Saccharina japonica* on particulate matter (PM)-stimulated skin cells *in vitro* and TPA-induced ear edema in an *in vivo* mouse model

Kirinde Gedara Isuru Sandanuwan Kirindage^{1*}, Arachchige Maheshika Kumari Jayasinghe¹, Hitihami Mudiyanselage Chalani Bhagya Deshapriya¹, Hewayalage Madushika Kumari Ranasinghe¹, Nam-Ki Cho², Seok-Ho Cho³, and Ginnae Ahn¹

¹ Department of Food Technology and Nutrition, Chonnam National University, Yeosu, ² College of Pharmacy, Chonnam National University, Gwangju, ³ Department of Clothing and Textiles, Chonnam National University, Gwangju.

P5-45

Comparison of imputation models for missing data in food nutrient databases

Haeseong Yang^{1*}, Yeonsu Do¹, Yubin Lee¹, Jihwan Lim¹, Minkyu Song¹ Jung Hyeon Park^{1,3}, You Jin

Haeseong Yang¹*, Yeonsu Do¹, Yubin Lee¹, Jihwan Lim¹, Minkyu Song¹ Jung Hyeon Park¹٬₃,You Jin Yang²,Jung Won Park²

Young Jun Kim^{1,2,3}, Ji Youn Hong^{1,2}

¹Department of Food and Biotechnology, ²Department of Food Regulatory Science ³BK21 FOUR Research Education Team for Omics-based Bio-health on Food Industry, Korea University, Korea

P5-46

Antioxidant Properties of 'Sangjudungsi' leaf extracts using different extraction methods and extraction time.

Johnson Olowoniyi ¹, Minh Huy Tieu ¹, Hye Kyung Moon ², Soo won Lee ¹, Jong kuk Kim ^{1*}

¹Department of Food Service and Restaurant Industry, Kyungpook National University.

²Center for Scientific Instruments Branch, Kyungpook National University

P5-47

Effect of *Saccharina japonica* ethanol extract on skin dryness in fine dust-stimulated HaCaT keratinocyte and its biological mechanism

Hewayalage Madushika Kumari Ranasinghe^{1*}, Kirinde Gedara Isuru Sandanuwan Kirindage¹, Arachchige Maheshika Kumari Jayasinghe¹, Hitihami Mudiyanselage Chalani Bhagya Deshapriya¹, Nam-Ki Cho ², Seok-Ho Cho ³, and Ginnae Ahn^{1,4*}

¹Department of Food Technology and Nutrition, Chonnam National University, Yeosu 59626, Republic of

Korea, ²College of Pharmacy, Chonnam National University, Gwangju 61186, Republic of Korea, ³Department of Clothing and Textiles, Chonnam National University, Gwangju 61186, Republic of Korea, ⁴Department of Marine Bio-Food Sciences, Chonnam National University, Yeosu 59626, Republic of Korea

P5-48

Protective effect of *Curcuma longa* L. leaves and pseudostems extract on IgE/BSA-stimulated mast cell activation and DNCB-induced atopic dermatitis in a BALB/c mouse model

Arachchige Maheshika Kumari Jayasinghe^{1*}, Kirinde Gedara Isuru Sandanuwan Kirindage¹, Hitihami Mudiyanselage Chalani Bhagya Deshapriya¹, Hewayalage Madushika Kumari Ranasinghe¹, Sun-Hyung Kim², Seok Lee², Ginnae Ahn¹

¹Department of Food Technology and Nutrition, Chonnam National University, Yeosu-si, Republic of Korea, ²French Korea Aromatics Co., Ltd., Yongin-si, Republic of Korea

P5-49

Effect of subcritical water extract from *Saccharina japonica* against skin dryness in fine dust-stimulated HaCaT keratinocytes

Hitihami Mudiyanselage Chalani Bhagya Deshapriya¹*, Arachchige Maheshika Kumari Jayasinghe¹, Kirinde Gedara Isuru Sandanuwan Kirindage¹, Hewalayage Madushika Kumari Ranasinghe¹, Nam-Ki Cho², Seok-Ho Cho³, and Ginnae Ahn^{1,4}

¹Department of Food Technology and Nutrition, Chonnam National University, Yeosu 59626, Republic of Korea, ²College of Pharmacy, Chonnam National University, Gwangju 61186, Republic of Korea, ³Department of Clothing and Textiles, Chonnam National University, Gwangju 61186, Republic of Korea, ⁴Department of Marine Bio-Food Sciences, Chonnam National University, Yeosu 59626, Republic of Korea

P5-50

Antioxidant characteristics of green and black teas traditionally manufactured in the Jeonnam region of Korea

Seo-Eun Park^{1*}, Hui Jin Lee, Jiyeon Chun¹

¹Department of Food Science and Technology, Sunchon National University, Korea

P5-51

Anti-Skin Aging *Centella asiatica*-Meditated Green Synthesis with Gold Nanoparticles Using Deep Eutectic Solvents

Young-Jin Jo^{1*}, Bo-Rim Song¹, Jae-Sik Na¹, Chang Hyung Lee² and Sang-Han Lee^{1,3}

¹Department of Food Science and Biotechnology, Kyungpook National University, Daegu 41566, Korea

²School of Pharmacy, Sungkyunkwan University, Suwon 16419, Korea

³Food and Bio-Industry Research Institute, Inner Beauty/Anti-Ageing Center, Kyungpook National University, Daegu 41566, Korea

P5-52

Beyond Conventional Solvents: Enhanced Antioxidant Effect of Natural Hydrogen Bond Solvents from *Dillenia indica* L. Bark

Bo-Rim Song^{1*}, Jae-Sik Nah¹, Young-Jin Jo¹, Chang Hyung Lee², Chi-Yeol Yoo³, and Sang-Han Lee^{1,4},

¹Department of Food Science and Biotechnology, Kyungpook National University, Daegu 41566, Korea

²School of Pharmacy, Sungkyunkwan University, Suwon 16419, Korea

³knu B&F Co., Daegu 41566, Korea

⁴Food and Bio-Industry Research Institute, Inner Beauty/Anti-Ageing Center, Kyungpook National University, Daegu 41566, Korea

P5-53

Natural Hydrogen Bond Solvents (NHBS): Increasing Antioxidant Potential and Marker Compound Content Beyond Traditional Solvents

Bo-Rim Song^{1*}, Jae-Sik Nah¹, Young-Jin Jo¹, Chang Hyung Lee², Chi-Yeol Yoo³, and Sang-Han

¹Department of Food Science and Biotechnology, Kyungpook National University, Daegu 41566, Korea

²School of Pharmacy, Sungkyunkwan University, Suwon 16419, Korea

³knu B&F Co., Daegu 41566, Korea

⁴Food and Bio-Industry Research Institute, Inner Beauty/Anti-Ageing Center, Kyungpook National University, Daegu 41566, Korea

P5-54

Antioxidant and Tyrosinase and Elastase Inhibitory and UV protection effect of seaweed extracts (*Hizikia Fusiformis, Laminaria Japonica, Ulva lactuca*, and *Undaria Pinnatifida*)

Do-Kyung Kim1, Hyun-jung Ko1, Wha-young Choei1, Min Jung Ryu2, and Kwontack Hwang1*

1 Department of Food and Nutrition, Nambu University, Gwangju 62271, Korea

2 Department of Cosmetology science, Nambu University, Gwangju 62271, Korea

P5-55

Nutritional profile of proximate and fat-soluble composition content generally consumed imported fisheries in Korea

JinWoo Yang^{1*}, Bo Gyeong Seol¹, Young Eun Park¹, Yu-Rin Jeong¹, Ji-Eun Kim¹, Su-Jin Han¹, Su-Bin Park¹, Ji-Young Kwon¹, Na-Young Yoon¹

¹ Food Safety and Processing Research Division, National Institute Fisheries Science