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EDUCATION

- 2005-2009 **Ph.D. Department of Nutrition and Food Science**, Auburn University, Auburn, AL
(GPA=4.0/4.0)
- Dissertation Title: Development of microscopic imaging system for rapid detection of *Salmonella* in raw chicken
 - Dissertation advisor: Dr. Tung-Shi Huang
 - Major: Food Microbiology and Safety
- 1993-1995 **M.S. Department of Food Science and Technology**, Korea University, Seoul, Korea
(GPA=4.13/4.5)
- Thesis Title: Studies on the blood anticoagulant polysaccharides isolated from *Codium fragile*
 - Dissertation advisor: Dr. Han-Chul Yang
 - Major: Food Processing and Microbiology
- 1989-1993 **B.S. Department of Foods and Nutrition**, Duksung Women's University, Seoul, Korea
(GPA=3.88/4.5)

RESEARCH and PROFESSIONAL EXPERIENCE

- Sep. 2013- Present **Professor**, School of Food Science & Biotechnology, Kyungpook National University, Daegu, South Korea
- Feb. 2013- Aug. 2013 **Research Assistant Professor**, Auburn University Detection and Food Safety Center, Auburn, AL, USA
- Sep. 2010- Jan. 2013 **Postdoctoral Research Fellow**, Auburn University Detection and Food Safety Center, Auburn, AL, USA
- Jan. 1996- Dec.1997 **Food Product Researcher**, Pulmuone Co., R&D Center, Seoul, South Korea

AWARDS AND NATIONAL COMMITTEE

- [1] Kyungpook National University, KNU LINC Awards TOP Innovator, 2023
- [2] Scholastic Achievement Award, The Korean Society of Food Preservation, 2023
- [3] Scholastic Achievement Award, The Korean Society for Microbiology and Biotechnology, 2023
- [4] Committee in Regulatory Affairs, Ministry of Food and Drug Safety in Korea (MFDS), 2020
- [5] Scholastic Women Award, The Korean Society for Microbiology and Biotechnology, 2019
- [6] KUSCO-KSEA Scholarship for Graduate Students in the United States, Korean-American Scientists and Engineering Association Award, 2007
- [7] Academic Excellence as Outstanding Graduate Student, Auburn University, 2007

RESEARCH PROJECTS (since 2021)

- [1] National Research Foundation of Korea (NRF) BK-21 FOUR program, “Healthcare Convergence Educational Group for Infectious Disease Management”, 03/01/2025–18/31/2027, 595,851,000 won (~\$450,000), **Director**.
- [2] National Research Foundation of Korea (NRF) Grant, “Development of hybrid CBD-based ASSURED detection system for *Listeria monocytogenes*”, 05/01/2024–04/30/2028, 884,608,000 won (~\$884,000), **PI**.
- [3] Korea Institute of Planning and Evaluation for Technology in food, Agriculture and Forestry (IPET) Grant, “Development of Bacteriocin-producing Probiotics Complex and Application Products”, 04/01/2022–12/31/2026, 365,000,000 won (~\$350,000), **Co-PI**.
- [4] Ministry of Food and Drug Safety in Korea (MFDS) Grant, “Development of electromagnetic radiation-based detection technology for soft foreign materials in foods”, 02/01/2022–12/31/2024, 260,000,000 won (~\$250,000), **Co-PI**.
- [5] National Research foundation of Korea (NRF) Grant, “Development of user-friendly on-site applicable real-time detection system using engineered *E. coli*-specific reporter phage combined with IoT technology”, 09/01/2021–02/28/2023, 300,000,000 won (~\$300,000), **PI**.
- [6] Rural Development Administration (RDA) Grant, “Development of Agricultural Antibiotics Substitute for the Reduction of Antibiotic Resistance”, 03/01/2021–12/31/2023, 600,000,000 won (~\$570,000), **PI**.
- [7] Ministry of Food and Drug Safety (MFDS) Grant: “Research on safety information delivery system with IoT communication technology for imported food” 02/01/2021–12/31/2025, 180,000,000 won (~\$160,000), **Co-PI**.

PUBLICATIONS

<2025>

- [1] Gashaw Assefa Yehuala, Jaemin Choe, Nurelegne Tefera Shibeshi, Kumsa Delessa, Asnake Desalegn, ***Mi-Kyung Park**. Lactic acid bacteria from Ethiopian traditional beverage, Tella: technological and metabolic profiles for industrial application. *Journal of Microbiology* (**IF 2.6, 60.4%**). 63(1):e2409008
- [2] Su-Hyeon Kim, In Young Choi, Charles MAP Franz, ***Mi-Kyung Park**. Functional and genomic features of a lytic *Salmonella* phage vB_StyS_KFSST1 for development as new feed additive. *Food Science of Animal Resources* (**IF 3.7, 32.9%**).
- [3] Putri Christy Artawinata, Youjin Kim, In Young Choi, ***Mi-Kyung Park**. Broad antibacterial activity and mechanism of Garlic (*Allium sativum* L. cv. Uiseong) extracts against cell wall of *Aeromonas hydrophila*. *Journal of Microbiology and Biotechnology* (**IF 3.1, 44.4%**). 35:32410035.

<2024>

- [4] Gashaw Assefa Yehuala, Nurelegne Tefera Shibeshi, Su-Hyeon Kim, ***Mi-Kyung Park**. Characterization of autochthonous lactic acid bacteria isolated from a traditional ethiopian beverage, tella. *Foods* (**IF 4.7, 21.7%**). 13(4):575.
- [5] Moein Safarkhani, Bahareh Farasati Far, Su-Hyeon Kim, Pooyan Makvandi, **Mi-Kyung Park**, YunSuk Huh, Navid Rabiee. Advances and challenges of sensing in water using CRISPR-Cas technology. *ACS Biomaterials Science & Engineering* (**IF 5.5, 25.5%**).

- [6] Su-Hyeon Kim, Si Eun Kang, Young-Duk Kim, ***Mi-Kyung Park**. Industrial-scale blown active packaging film with essential oils: properties, dual-functional performance, and box packaging application of instant noodles. *Food Packaging and Shelf Life* (IF 8.5, 4.3%). 43:101276.
- [7] Sojeong Heo, Eun Jin Jung, **Mi-Kyung Park**, Moon-Hee Sung, Do-Won Jeong. Evolution and competitive struggles of *Lactiplantibacillus plantarum* under different oxygen contents. *International Journal of Molecular Sciences* (IF 4.9, 20.9%). 25(16):8861.
- [8] Su-Hyeon Kim, Jaein Choe, ***Mi-Kyung Park**. Complete genome sequence of *Salmonella* Typhimurium-specific phage VB_SalA_KFSST3 possessing antibiofilm activity. *Microbiology and Biotechnology Letters* (KCI IF 0.25, SCOPUS). 52(3):339-341.
- [9] Jun-Woo Park, Young-Hee Cho, **Mi-Kyung Park**, Young-Duk Kim. Consumer usability test of mobile food safety inquiry platform based on image recognition. *Sustainability* (IF 3.3, 44.3%). 16(21):9538
- [10] Byeong-Hyeon Na, Dae-Ho Lee, Jaein Choe, Young-Duk Kim, ***Mi-Kyung Park**. Detection of low-density foreign objects in infant snacks using a continuous-wave sub-terahertz imaging system for industrial applications. *Sensors* (IF 3.4, 30.9%). 24(22):7374.

<2023>

- [1] Moon-Ju Kim, Hyung Eun Bae, Soonil Kwon, **Mi-Kyung Park**, Dongeun Yong, Min-Jung Kang, Jae-Chul Pyun. 2021. Phage-targeting bimetallic nanoplasmonic biochip functionalized with bacterial outer membranes as a biorecognition element. *Biosensors and Bioelectronic* (IF 12.6, 1.7%). 238:11598.
- [2] Jaein Choe, Byeori Kim, ***Mi-Kyung Park**, Eunjung Roh. Biological and Genetic Characterizations of a Novel Lytic ΦFifi106 against indigenous *Erwinia amylovora* and evaluation of the control of fire blight in apple plants. *Biology* (IF 4.2). 12(8):1060.
- [3] In Young Choi, Jaein Choe, Bryan A Chin, ***Mi-Kyung Park**. User-friendly, signal-enhanced planar spiral coil-based magnetoelastic biosensor combined with humidity-resistant phages for simultaneous detection of *Salmonella* Typhimurium and *Escherichia coli* O157:H7 on fresh produce. *Sensors and Actuators B: Chemical* (IF 8.4, 0.8%). 393:134179.
- [4] Su-Hyeon Kim, Heejeong Lee, ***Mi-Kyung Park**. Isolation, characterization, and application of a novel, lytic phage vB_SalA_KFSST3 with depolymerase for the control of *Salmonella* and its biofilm on cantaloupe under cold temperature. *Food Research International* (IF 8.1, 6.7%). 172: 113062.
- [5] Hwa-Eun Lee, Yu-Bin Jeon, Bryan A Chin, Sang Hyuk Lee, Hye Jin Lee, ***Mi-Kyung Park**. Performance of wild, tailed, humidity-robust phage on a surface-scanning magnetoelastic biosensor for *Salmonella* Typhimurium detection. *Food Chemistry* (IF 8.8, 5.1%). 409: 135239.
- [6] ***Mi-Kyung Park**. Comparison of gold biosensor combined with light microscope imaging system with ELISA for detecting *Salmonella* in chicken after exposure to simulated chilling condition. *Journal of Microbiology and Biotechnology* (IF 2.8). 33(2): 228.
- [7] Moon-Ju Kim, Zhiquan Song, Chang Kyu Lee, Tae Gyeong Yun, Joo-Yoon Noh, **Mi-Kyung Park**, Dongeun Yong, Min-Jung Kang, Jae-Chul Pyun. Breathing-Driven Self-Powered Pyroelectric ZnO Integrated face mask for bioprotection. *Small* (IF 13.3, 6.6%). 19(2): 2200712.
- [8] Su-Hyeon Kim, ***Mi-Kyung Park**. Isolation and characterization of a lytic *Salmonella* Typhimurium-specific phage as a potential biofilm control agent. *Microbiology and Biotechnology Letters*. 52(3):339-341

<2022>

- [1] Su-Hyeon Kim, Gashaw Assefa Yehuala, Won Yeong Bang, Jungwoo Yang, Young Hoon Jung, ***Mi-Kyung Park**. Safety Evaluation of *Bacillus subtilis* IDCC1101, newly isolated from Cheonggukjang, for industrial applications. *Microorganisms* (**IF 4.5**). 10(12) 2492.
- [2] Kashif Ameer, Saqib Ameer, Young-Min Kim, Muhammad Nadeem, **Mi-Kyung Park**, Mian Anjum Murtaza, Muhammad Asif Khan, Muhammad Adnan Nasir, Ghulam Mueen-ud-Din, Shahid Mahmood, Tusneem Kausar, Muhammad Abubakar. A Hybrid RSM-ANN-GA Approach on optimization of ultrasound-assisted extraction conditions for bioactive component-rich *Stevia rebaudiana* (Bertoni) leaves extract. *Foods* (**IF 5.2**) 11(6): 883.
- [3] Su-Hyeon Kim, Ye-Rim Park, Hyeju Jeong, ***Mi-Kyung Park**. Characterization of a lytic phage KFS-EC3 infecting multiple foodborne pathogens. *Korean Journal of Food Preservation* (**KCI IF 0.88, SCOPUS**). 29(7): 1022-1034.

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- [1] Dong Dong-Hoon Kwak, Guk-Jin Son, **Mi-Kyung Park**, and Young-Duk Kim. 2021. Rapid foreign object detection system on seaweed using VNIR hyperspectral imaging. *Sensors* (**IF 3.9**). 21:5279.
- [2] Jaemin Choe, Hyeju Jung, Changsun Choi, ***Mi-Kyung Park**. Antiviral effect of persimmon (*Diospyros kaki* Thunb. cv. Cheongdo-Bansi) extracts on murine norovirus. 2021. *Korean Journal of Food Preservation* (**KCI IF 0.88, SCOPUS**). 28(3):437-444.
- [3] Guk-Jin Son, Dong-Hoon Kwak, **Mi-Kyung Park**, Young-Duk Kim, Hee-Chul Jung. 2021. U-Net-based foreign object detection method using effective image acquisition system: a case of almond and green onion flake food process. *Sustainability* (**IF 3.9**). 13:13834.
- [4] Won Yeong Bang, O-Hyun Ban, Bo Som Lee, Sangki Oh, Chanmi Park, **Mi-Kyung Park**, Sung Keun Jung, Jungwoo Yang, Young Hoon Jung. 2021. Genomic-, phenotypic-, and toxicity-based safety assessment and probiotic potency of *Bacillus coagulans* IDCC 1201 isolated from green malt. *Journal of Industrial Microbiology and Biotechnology* (**IF 3.4**). 48(5-6):kuab026
- [5] In Young Choi, Jinhee KIM, Su-Hyeon Kim, O-Hyun Ban, Jungwoo Yang, ***Mi-Kyung Park**. 2021. Safety evaluation of *Bifidobacterium breve* IDCC4401 isolated from infant feces for use as a commercial probiotic. *Journal of Microbiology and Biotechnology* (**IF 3.277**). 31(7):979-955.
- [6] Su-Hyeon Kim, Damilare Emmanuel Adeyemi, ***Mi-Kyung Park**. 2021. Characterization of a new and efficient polyvalent phage infecting *E. coli* O157:H7, *Salmonella* spp., and *Shigella sonnei*. *Microorganisms* (**IF 4.5**). 9:2105.

<2020>

- [1] Selvakumar Vijayalakshmi, Damilare E. Adeyemi, In Young Choi, and ***Mi-Kyung Park**. 2020. Comprehensive *in silico* analysis of lactic acid bacteria for the selection of desirable probiotics. *LWT-Food Science and Technology* (**IF 6.0**). 130:109617.
- [2] Cheonghoon Lee, In Young Choi, Do Hyeon Park, and ***Mi-Kyung Park**. 2020. Isolation and characterization of a novel *Escherichia coli* O157:H7-specific phage as a biocontrol agent. *Journal of Environmental Health Science and Engineering* (**IF 3.4**). 18(1):189-199.
- [3] Seo A Jung, Su Jung Hong, Jun Tae Kim, Su-Hyeon Kim, **Mi-Kyung Park**, Dong Hee Lee, and Gye Hwa Shin. 2020. Preparation and antimicrobial activity of 'Yuja' nanoemulsion using ultrasonic homogenization treated 'Yuja' juice. *Korean Journal of Food Preservation* (**KCI IF 0.88, SCOPUS**). 27(2):224-231.

- [4] Hwa-Eun Lee, Su Jung Hong, Naimul Hasan, Eun Joo Baek, Jun Tae Kim, Young-Duk Kim, and ***Mi-Kyung Park**. 2020. Repellent efficacy of essential oils and plant extracts against *Tribolium castaneum* and *Plodia interpunctella*. Entomological Research (IF 1.3). 50(5):450-459.
- [5] Su-Hyeon Kim, Kashif Ameer, Jun-Hyun Oh, and ***Mi-Kyung Park**. 2020. Characterization of hot water extract from Korean deer velvet antler (*Cervus canadensis* Erxleben). Korean Journal of Food Preservation (KCI IF 0.88, SCOPUS). 27(6):725-733.
- [6] In Young Choi, Do Hyeon Park, Brayan A. Chin, Cheonghoon Lee, Jinyoung Lee, and ***Mi-Kyung Park**. 2020. Exploring the feasibility of *Salmonella* Typhimurium-specific phage as a novel bio-receptor. Journal of Animal Science and Technology (IF 2.3). 62(5):668.
- [7] Dong Wook Jang, Kashif Ameer, Jun-Hyun Oh, and ***Mi-Kyung Park**. 2020. Optimization and pretreatment for hot water extraction of Korean deer (*Cervus canadensis* Erxleben) velvet antlers. Journal of Microbiology and Biotechnology (IF 2.8). 30(8):1116-23.
- [8] Abdus Sobhan, Jun-Hyun Oh, **Mi-Kyung Park**, and Jinyoung Lee. 2020. Reusability of single-walled carbon nanotube-based biosensor for detecting peanut allergens and *Yersinia enterocolitica*. Microelectronic Engineering (IF 2.3). 225:111281.

<2019>

- [1] **Mi-Kyung Park**, Hyejeong Cho, Seong Woon Roh, Seong-Jun Kim, and Jinjong Myoung. 2019. Cell type-specific interferon- γ -mediated antagonism of KSHV lytic replication. Scientific Reports (IF 4.6). 9(1):2372.
- [2] Yeon Soo Kim, Damilare E. Adeyemi, Ponijese Korovulavula, Dong Wook Jang, and ***Mi-Kyung Park**. 2019. Effect of steaming on the functional compounds and antioxidant activity of Fijian aro (*Colocasia esculenta* L. schott) corms. Korean Journal of Food Preservation (KCI IF 0.88, SCOPUS). 26(4):449-454.
- [3] In Young Choi, Cheonghoon Lee, Won Keun Song, Sung Jae Jang, and ***Mi-Kyung Park**. 2019. Lytic KFS-SE2 phage as a novel bio-receptor for *Salmonella* Enteritidis detection. Journal of Microbiology (IF 3.0). 57(2):170-179.
- [4] Abdus Sobhan, Jinyoung Lee, **Mi-Kyung Park**, and Jun-Hyun Oh. 2019. Rapid detection of *Yersinia enterocolitica* using a single-walled carbon nanotube-based biosensor for Kimchi product. LWT-Food Science and Technology (IF 6.0). 108:48-54.

<2018>

- [1] Abdus Sobhan, Jun-Hyun Oh, **Mi-Kyung Park**, Seung Wook Kim, Chulhwan Park, and Jinyoung Lee. 2018. Assessment of peanut allergen Ara h1 in processed foods using a SWCNTs-based nanobiosensor. Bioscience Biotechnology and Biochemistry (IF 1.6). 82(7):1134-1142.
- [2] Abdus Sobhan, Jun-Hyun Oh, **Mi-Kyung Park**, and Jinyoung Lee. 2018. Detection of peanut allergen Ara h6 in commercially processed foods using single-walled carbon nanotube-based biosensor. Journal of AOAC International (IF 1.6). 101(5):1558-1565.
- [3] Byungryul An, **Mi-Kyung Park**, and Jun-Hyun Oh. 2018. Food waste treatment using *Bacillus* species isolated from food wastes and production of air-dried *Bacillus* cell starters. Environmental Engineering Research (IF 3.5). 23(3):258-264.
- [4] Sangmin Kang, Changsun Choi, Insoo Choi, Kwi-Nam Han, Seong Woon Roh, Jongsun Choi, Joseph Kwon, **Mi-Kyung Park**, Seong-Jun Kim, and Jinjong Myoung. 2018. Hepatitis E virus methyltransferase inhibits type I interferon induction by targetin RIG-I. Journal of Microbiology and Biotechnology (IF 2.8). 28(9):1554-1562.

- [5] Abdus Sobhan, Jun-Hyun Oh, **Mi-Kyung Park**, Seung Wook Kim, and Chulhwan Park. 2018. Single walled carbon nanotube-based biosensor for detection of peanut allergy-inducing protein Ara h1. *Korean Journal of Chemical Engineering (KCI IF 0.37)*. 35(1):172-178.
- [6] Kyoung Min Gwak, In Young Choi, Jinyoung Lee, Jun-Hyun Oh, and ***Mi-Kyung Park**. 2018. Isolation and characterization of a lytic and highly specific phage against *Yersinia enterocolitica* as a novel biocontrol agent. *Journal of Microbiology and Biotechnology (IF 2.8)*. 25(11):1946-1954.
- [7] In-Young Choi, Joo Hyeon Park, Kyoung Min Gwak, Kwang-Pyo Kim, Jun-Hyun Oh, and ***Mi-Kyung Park**. 2018. Studies on lytic, tailed *Bacillus cereus*-specific phage for use in a ferromagnetoelastic biosensor as a novel recognition element. *Journal of Microbiology and Biotechnology (IF 2.8)*. 28(1):87-94.
- [8] Min-Jeong Lee, HyungWoo Kim, WooJu Kim, JinUk Jang, JeongUk Seo, KyoungMin Gwak, Jinjong Myoung, and ***Mi-Kyung Park**. 2018. Studies on *Shigella sonnei*-specific bacteriophage isolated from a slaughterhouse. *Korean Journal of Food Preservation (KCI IF 0.88, SCOPUS)*. 25(3):390-396.

<2017>

- [1] Jun-Hyun Oh, ***Mi-Kyung Park**. Recent trends in *Salmonella* outbreaks and emerging technology for biocontrol of Salmonella using phages in foods: a review. *Journal of Microbiology and Biotechnology (IF 2.8)*. 27(12): 2075-2088.
- [2] Jacqueline D Mack, Teshome Yehualaeshet, **Mi-Kyung Park**, Berhanu Tameru, Temesgen Samuel, Bryan A Chin. Phage-based biosensor and optimization of surface blocking agents to detect *Salmonella* Typhimurium on romaine lettuce. *Journal of Food Safety (IF 2.4)*. 37(2): 12299.
- [3] Nitilaksha Hiremath, Bryan A Chin, ***Mi-Kyung Park**. Effect of competing foodborne pathogens on the selectivity and binding kinetics of a lytic phage for methicillin-resistant *Staphylococcus aureus* detection. *Journal of The Electrochemical Society (IF 3.9)*. 164(4): 142.
- [4] Hyun-Kyung Choi, Jinyoung Lee, **Mi-Kyung Park**, Jun-Hyun Oh. Research Article Development of Single-Walled Carbon Nanotube-Based Biosensor for the Detection of *Staphylococcus aureus*. *Journal of food quality (IF 3.3)*. 5239487.
- [5] Minh Tue Nguyen, **Mi-Kyung Park**, Sang-Do Ha, In-Soo Choi, Chang-Sun Choi, and Jin-Jong Myoung. 2017. Cell culture models of human norovirus: the end of the beginning. *Microbiology and Biotechnology Letters (KCI IF 0.18)*. 45(2):93-100.
- [6] In-Young Choi, Jun-Hoon Lee, Hye-Jin Kim, and ***Mi-Kyung Park**. 2017. Isolation and characterization of novel broad-host-range bacteriophage infecting *Salmonella* Enterica subsp. Enterica for biocontrol and rapid detection. *Journal of Microbiology and Biotechnology (IF 2.8)*. 27(12):2151-2155.
- [7] ***Mi-Kyung Park**. 2017. Production and characterization of anti-*Salmonella* polyclonal antibodies as bio-recognition element for developing a microbial monitoring method. *Korean Journal of Food Preservation (KCI IF 0.88, SCOPUS)*. 24(7):885-890.

<2016>

- [1] You Jin Kim, Hui Su Oh, Min Ji Kim, Jeong Hoon Kim, Jae Baek Goh, In Young Choi, and ***Mi-Kyung Park**. 2016. Identification of electron beam-resistant bacteria in the microbial reduction of dried laver (*Porphyra tenera*) subjected to electron beam treatment. *Korean Journal of Food Preservation (KCI IF 0.88, SCOPUS)*. 23(1):139-143.
- [2] ***Mi-Kyung Park**. 2016. Determination of best enrichment media for growth of Salmonella injured from cold temperature during process and storage. *Korean Journal of Food Preservation (KCI IF 0.88, SCOPUS)*. 23(6):759-764.

- [3] Jung-Hyun Oh, and ***Mi-Kyung Park**. 2016. Immunosensors combined with a light microscopic imaging system for rapid detection of *Salmonella*. Food Control (**IF 6.0**). 59:780-786.
- [4] ***Mi-Kyung Park**, and Bryan A. Chin. 2016. Novel approach of a phage-based magnetoelastic biosensor for the detection of *Salmonella* Enterica serovar Typhimurium in soil. Journal of Microbiology and Biotechnology (**IF 2.8**). 26(12):2051-2059.

<2015>

- [1] Nitilaksha Hiremath, Rajesh Guntupalli, Vitaly Vodyanoy, Bryan A. Chin, and ***Mi-Kyung Park**. 2015. Detection of methicillin-resistant *Staphylococcus aureus* using novel lytic phage-based magnetoelastic biosensors. Sensors and Actuators B: Chemical (**IF 8.4, 0.8%**). 210:129-136.
- [2] Jeung Hee An, Seung U. Kim, **Mi-Kyung Park**, and Jeong Woo Choi. 2015. Electrochemical detection of human mesenchyma stem cell differentiation on fabricated gold nano-dot cell chips. Journal of Nanoscience and Nanotechnology (**IF 1.1**). 15(10):7929-7934.
- [3] Haeng Mi Byeon, Vataly J. Vodyanoy, Jun-Hyun Oh, Joong-Ho Kwon, and ***Mi-Kyung Park**. 2015. Lytic phage-based magnetoelastic biosensors for on-site detection of methicillin-resistant *Staphylococcus aureus* on Spinach Leaves. Journal of the Electrochemical Society (**IF 3.9**). 162(8):B230-B235.
- [4] ***Mi-Kyung Park**, and Jun-Hyun Oh. 2015. Antioxidant and antimicrobial activities of muscadine grape extracts. Korean Journal of Food Preservation (**KCI IF 0.88, SCOPUS**). 22(1):12-18.
- [5] Min-Ji Kim, Sang-Ho Yoo, Sangwon Jung, **Mi-Kyung Park**, and Jae-Hee Hong. 2015. Relative sweetness, sweetness quality, and temporal profile of xylooligosaccharides and luo han guo (*Siraitia grosvenorii*) extract. Food Science and Biotechnology (**IF 2.9**). 24(3):965-973.
- [6] ***Mi-Kyung Park**. 2015. Development of on-site bacteriophage-based magnetoelastic biosensor method for *Salmonella* detection on fresh produce. Food Preservation and Processing Industry (**KCI IF 0.88, SCOPUS**). 14(2):56-62.
- [7] Sung Hyeok Park, Joo Hyeon Park, Hyang Sook Chun, ***Mi-Kyung Park**. 2015. History of food law and definition of food fraud in USA. Safe Food (**KCI IF 0.56**). 10(2):13-23.

<2014>

- [1] ***Mi-Kyung Park**, and Jun-Hyun Oh. 2014. Immunomagnetic bead separation coupled with a dithiobis-succinimidyl propionate (DSP)-modified immunosensor to detect *Listeria monocytogenes* in chicken skin. Journal of the Electrochemical Society (**IF 3.9**). 161(12):B237-B242.
- [2] ***Mi-Kyung Park**, and Minseo Park. 2014. Rapid Detection of *Salmonella* Typhimurium and *Escherichia coli* using surface-enhanced raman spectroscopy. Journal of Agriculture & Life Science (**KCI IF 0.58**). 48(5):133-138.

<2013>

- [1] ***Mi-Kyung Park**, Suiqiong Li, and Bryan A. Chin. 2013. Detection of *Salmonella typhimurium* grown directly on tomato surface using phage-based magnetoelastic biosensors. Food and Bioprocess Technology (**IF 5.6**). 6(3):682-689.
- [2] ***Mi-Kyung Park**, Kanchana Weerakoon, Jun-Hyun Oh, and Bryan A. Chin. 2013. The analytical comparison of phage-based magnetoelastic biosensors with TaqMan-based quantitative PCR method to detect *Salmonella* Typhimurium on cantaloupes. Food Control (**IF 6.0**). 33:330-336.
- [3] ***Mi-Kyung Park**, Jang Won Park, Howard C. Wikle III, and Bryan A. Chin. 2013. Evaluation of phage-based magnetoelastic biosensors for direct detection of *Salmonella* Typhimurium on spinach leaves. Sensors and Actuators B: Chemical (**IF 8.4, 0.8%**). 176:1134-1140.

- [4] Yating Chai, Howard C. Wickle III, **Mi-Kyung Park**, Shin Horikawa, Xie Hong, and Bryan A. Chin. 2013. A new wireless detection device for the *in-situ* identification of *Salmonella* Typhimurium. Sensing for Agriculture and Food Quality and Safety V. 8721:87210B
- [5] Suiqiong Li, Howard C. Wickle III, Yating Chai, **Mi-Kyung Park**, Shin Horikawa, and Bryan A. Chin. 2013. Bio-inspired autonomous sentinel system for screening invasive pathogens. ECS Transactions. 50(12):53-59.
- [6] ***Mi-Kyung Park**, Suiqiong Li, and Bryan A. Chin. 2013. Detection of *Salmonella* Typhimurium grown directly on tomato surface using phage-based magnetoelastic biosensors. Food and Bioprocess Technology (**IF 5.6**). 6(3):682-689.
- [7] ***Mi-Kyung Park**, Nitilaksha Hirematha, Kanchana A. Weerakoon, Kiril A. Vaglenov, James M. Barbaree, and Bryan A. Chin. 2013. Effects of surface morphologies of fresh produce on the performance of phage-based magnetoelastic biosensors. Journal of The Electrochemical Society (**IF 3.9**). 160(1):B6-B12.
- [8] ***Mi-Kyung Park**, Suiqiong Li, Yating Chai, Jun-Hyun Oh, and Bryan A. Chin. 2013. Evaluation of phage-based magnetoelastic biosensor method with quantitative PCR for detection of *Salmonella* on fresh produce. Abstracts of Papers of The American Chemical Society. 245.
- [9] ***Mi-Kyung Park**, Suiqiong Li, Kanchana Weerakoon, Shin Horikawa, Yating Chai, Nitilaksha Hiremath, Valery A. Petrenko, and Bryan A. Chin. 2013. Performance of optimized phage-based magnetoelastic biosensors for *Salmonella* Typhimurium detection on tomatoes. ECS Transactions. 50(12):69-76.
- [10] Yating Chai, Suiqiong Li, Shin Horikawa, **Mi-Kyung Park**, Vitaly J. Vodyanoy, and Bryan A. Chin. 2013. Single optimization for *Salmonella* Typhimurium detection on food surface using phage-based biosensors. ECS Transactions. 50(12):43-52.

<2012>

- [1] ***Mi-Kyung Park**, and Jun-Hyun Oh. 2012. Rapid detection of *Escherichia coli* O157:H7 on turnip greens using a modified gold biosensor combined with light microscopic imaging system. Journal of Food Science (**IF 3.9**). 77(2):M127-M134.
- [2] ***Mi-Kyung Park**, Howard C. Wickle III, Yating Chai, Shin Horikawa, Wen Shen, and Bryan A. Chin. 2012. The effect of incubation time for *Salmonella* Typhimurium binding to phage-based magnetoelastic biosensors. Food Control (**IF 6.0**). 26(2):539-545.
- [3] Yating Chai, Suiqiong Li, Shin Horikawa, **Mi-Kyung Park**, Vitaly Vodyanoy, and Bryan A. Chin. 2012. Rapid and sensitive detection of *Salmonella* Typhimurium on eggshells using wireless biosensors. Journal of Food Protection (**IF 2.0**). 75(4):631-636.
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