

# **CURRICULUM VITAE**

**Eunyoung Park, Ph.D.**

Department of Food Science and Technology,  
University of California, Davis, USA  
Tel: +1-530-309-5688, E-mail: euypark@ucdavis.edu

## **EDUCATION**

*Sep. 2022 ~*

***Post-doc.***

Department of Food Science and Technology,  
University of California, Davis, USA  
(Advisor: Dr. Ameer taha)

*Sep. 2021 ~ Aug. 2022*

***Post-doc.***

Department of Food Science and Technology,  
Chung-Ang University, Korea  
(Advisor: Dr. Jihyun Lee)

*Mar. 2017 ~ Aug. 2021*

***Ph.D. (Combined M.S./Ph.D. program research)***

Department of Agricultural Biotechnology,  
Seoul National University, Seoul, South Korea  
(Advisor: Dr. Jeong-Han Kim)

*Mar. 2013 ~ Feb. 2017*

***B.Sc.***

Bioresources & Food science, Life & Environmental Sciences  
Konkuk University, Seoul, South Korea

## **DOCTOR'S DISSERTATIONS**

“Toxicometabolomic and proteomic assessment of a plant toxin mesaconitine in zebrafish  
(*Danio rerio*)”

## **RESEARCH EXPERIENCES**

- Metabolomics and proteomics for toxicological interpretation of plant toxin ‘mesaconitine’ in zebra fish
  - : Targeted/non-targeted metabolomics using GC-MS/MS, LC-Orbitrap MS, and LC-qTOF MS
  - : Non-targeted proteomics using LC-Orbitrap-HRMS
- Pesticide multiresidue analysis using GC-MS/MS and LC-MS/MS
  - : Biological samples such as serum, urine, hair, and saliva
  - : Beverage including soju (liquor), cider, orange juice, vegetable juice, yoghurt, energy drink
  - : Herbal medicines
- Pesticide residue analysis in minor crop study (GC-MS/MS, LC-MS/MS)
- Simultaneous determination of plant toxins using LC-MS/MS
  - : Poisonous mushrooms, toxic plants
- Identification of microbial metabolites from culture medium through solvent extraction and systematic fractionation (LC-TOF-HRMS)
- Pesticide (fungicide pyribencarb) metabolism and metabolites identification in human liver preparations (LC-Orbitrap-HRMS)
  - : Human liver microsomes, human liver S9, human hepatocyte
- Toxicokinetic study of pesticide (fungicide pyribencarb) in rat and bioanalytical validation of a LC-MS/MS method
- Determination of crystal structure (pyribencarb-*E* and *Z*) by X-ray crystallography and its molecular docking with cytochrome *bc*<sub>1</sub>
- Metabolism of fungicide pyribencarb by CYP450 isoforms

## **ACADEMIC SOCIETY AND AFFILIATION**

*Mar. 2017 – Present*

***Member***

The Korean Society for Applied Biological Chemistry

*Mar. 2017 – Present*

***Member***

The Korean Society of Pesticide Science

## **SCHOLARSHIP**

<i>Feb. 2019</i>	<b><i>Lecture &amp; Research Scholarship</i></b> Seoul National University, Seoul, South Korea
<i>2017 ~ 2021</i>	<b><i>Brain Korea 21 Plus</i></b> National Research Foundation of Korea, South Korea
<i>Feb. 2017</i>	<b><i>Seohyun scholarship</i></b> Seoul National University, Seoul, South Korea
<i>Feb. 2016</i>	<b><i>Academic Excellence Scholarship</i></b> Konkuk University, Seoul, South Korea
<i>Aug. 2015</i>	<b><i>Winter internship scholarship</i></b> Konkuk University, Seoul, South Korea
<i>Aug. 2015</i>	<b><i>Academic Excellence Scholarship</i></b> Konkuk University, Seoul, South Korea

## **ACADEMIC AWARDS**

<i>Aug. 2021</i>	<b><i>Best Research Award</i></b> Brain Korea 21 Plus
<i>Oct. 2019</i>	<b><i>Poster Presentation Award</i></b> The Korean Society of Forensic Sciences

## **PUBLICATIONS**

### **< International Journals >**

1) **Eunyoung Park**, Jiho Lee, Junghak Lee, Jonghwa Lee, Hye Suk Lee, Yongho Shin, Jeong-Han Kim. Method for the simultaneous analysis of 300 pesticide residues in hair by LC-MS/MS and GC-MS/MS, and its application to biomonitoring of agricultural workers, *Chemosphere*, 277 (2021) 130215; <https://doi.org/10.1016/j.chemosphere.2021.130215> (IF: 8.943)

- 2) Donghyun Ka, Hyejin Oh, **Eunyoung Park**, Jeong-Han Kim, & Euiyoung Bae, Structural and functional evidence of bacterial antiphage protection by Thoeis defense system via NAD<sup>+</sup> degradation, NATURE COMMUNICATIONS, 11 (2020) 2816; <https://www.nature.com/articles/s41467-020-16703-w> (IF: 17.694)
- 3) Yongho Shin, Jiho Lee, **Eunyoung Park**, Junghak Lee, Hye Suk Lee, Jeong-Han Kim. A Quantitative Tandem Mass Spectrometry and Scaled-Down QuEChERS Approach for Simultaneous Analysis of Pesticide Multiresidues in Human Urine, Molecules, 24(7) (2019) 1330; <https://doi.org/10.3390/molecules24071330> (IF: 4.927)
- 4) Junghak Lee, Heeju Han, Xiu Yuan, **Eunyoung Park**, Jonghwa Lee, Jeong-Han Kim. A rapid, simultaneous and quantitative analysis of 26 ginsenosides in white and red *Panax ginseng* using LC-MS/MS, Applied Biological Chemistry, 64:13 (2021) (IF: 3.206)
- 5) Xiu Yuan, Junghak Lee, Heeju Han, Boeun Ju, **Eunyoung Park**, Yongho Shin, Jonghwa Lee, Jeong-Han Kim, Translocation of residual ethoprophos and tricyclazole from soil to spinach, Applied Biological Chemistry, 64:47 (2021) (IF: 3.206)
- 6) Xiu Yuan, Junghak Lee, **Eunyoung Park**, Hwa-Kyung Lee, Jeong-Han Kim, Toxicometabolomics of lindane in adult zebrafish (*Danio rerio*) using GC-MS/MS and LC-Orbitrap-MS/MS, Applied Biological Chemistry, 64:52 (2021) (IF: 3.206)
- 7) Sang-Hoon Kim, Sangyun Park, **Eunyoung Park**, Jeong-Han Kim, Sunil Ghatge, HorGil Hur, Sangkee Rhee, Structure and substrate specificity determinants of NfnB, a dinitroaniline herbicide catabolizing nitroreductase from *Sphingopyxis* sp. strain HMH, Journal of Biological Chemistry, <https://doi.org/10.1016/j.jbc.2021.101143> (2021) (IF: 5.486)
- 8) Jiho Lee, JiWoo Kim, Yongho Shin, **Eunyoung Park**, Junghak Lee, Young-Soo Keum, Jeong-Han Kim, Occupational Exposure and Risk Assessment for Agricultural Workers of Thiamethoxam in Vineyards, Ecotoxicology and Environmental Safety (2022) (IF: 7.129)
- 9) Jiho Lee, **Eunyoung Park**, Minwoo Jung, Seohyun Kim, Yongho Shin, JiWoo Kim, Potential

exposure to flubendiamide and risk assessment in Kimchi cabbage field, Gangneung, Gangwon-do, Republic of Korea: the protective role of PPE (personal protective equipment), Human and Ecological Risk Assessment (2022) (IF: 4.997)

10)**Eunyoung Park**, JihoLee, Hye Suk Lee, Jeong-Han Kim, Yongho Shin, Simple and rapid method for 336 multiresidual pesticide analysis in saliva, determination of their chemical stabilities, and biomonitoring of farmers, Chemosphere (2022) (IF: 8.943)

11)**Eunyoung Park**, Hahyeong Yu, Jeong-Ho Lim, Jeong Hee Choi, Kee-Jai Park, Jihyun Lee, Seaweed metabolomics: A review on its nutrients, bioactive compounds and changes in climate change, Food Research International, (2022) (IF: 7.425)

### < Domestic Journals >

1) Donghee Ahn<sup>‡</sup>, **Eunyoung Park<sup>‡</sup>**, Seoyeong Kim, Kyung-Hyung Ku, Jeong-Ho Lim<sup>\*</sup>, Jihyun Lee<sup>\*</sup>. Capsaicinoid content and quality attributes of commercial red pepper powder according to the labeled pungency levels, Korean Journal of Food Preservation, 2022.09.07 accepted

## **PRESENTATIONS AT SCIENTIFIC MEETINGS AND CONFERENCES**

### **<International scientific meetings and conferences >**

#### **■ Oral Presentation**

- 1) **Eunyoung Park**, Yongho Shin, Junghak Lee, Jiho Lee, Mai Rehan, Jae Chul Cheong, Hye Suk Lee, Jeong-Han Kim. Development and Validation of Multi-residue Screening Method for 439 Pesticides in Vegetable Juice Using LC-MS/MS and GC-MS/MS, 2019 International Symposium and Annual Meeting of the KSABC (Jun-20-2019), Korea (Oral presentation)

#### **■ Poster Presentation**

- 1) **Eunyoung Park**, Yongho Shin, Jiho Lee, Junghak Lee, Hye Suk Lee, Jeong Han Kim. Simultaneous screening method for 439 pesticide multiresidues in yoghurt Using LC-MS/MS and GC-MS/MS. ACS Fall 2020 Virtual Meeting & Expo (Aug-17-2020), USA (Poster)
- 2) **Eunyoung Park**, Yongho Shin, Junghak Lee, Jae Chul Cheong, Hye Suk Lee, Jeong-Han Kim. Development and Validation of Multi-residue Screening Method for 439 Pesticides in Soft Drink Using LC-MS/MS and GC-MS/MS, The 57th Annual Meeting of the International Association of Forensic Toxicologists (Sep-2-2019), UK (Poster)
- 3) **Eunyoung Park**, Yongho Shin, Mai Rehan, Byung Joon Kim, Seohyun Kim, Hee Seung Kim, Jin Young Kim, Moon Kyo In, Hye Suk Lee, Jeong-Han Kim. Application of QuEChERS Method to the Analysis of Pesticide Multi-Residue in Human Hair, 21st terminal meeting of the international association of forensic sciences (Aug-21-2017), Canada (Poster)





### <Domestic scientific meetings and conferences>

#### ■ Poster Presentation

1)**Eunyoung Park**, Yongho Shin, Jiho Lee, Junghak Lee, Xiu Yuan, Mai Rehan, Hye Suk Lee, Jeong-Han Kim. Development and Validation of Multiresidue Screening Method for 439 Pesticides in Soju (liquor) Using LC-MS/MS and GC-MS/MS, The 37th KSFS (Oct-25-2019), Korea (Poster)

2)**Eunyoung Park**, Yongho Shin, Junghak Lee, Xiu Yuan, Mai Rehan, Hye Suk Lee, Jeong-Han Kim. Simultaneous multi-residue analysis using LC-MS/MS and GC-MS/MS of 439 pesticides in Energy drink, 2019 The Korean Society of Pesticide Science (Oct-31-2019) Korea (Poster)

3)**Eunyoung Park**, Yongho Shin, Junghak Lee, Xiu Yuan, Mai Rehan, Beom Jun Ko, Hye Suk Lee, Jeong-Han Kim. Research on the establishment of multi-residue simultaneous analysis of pesticides in biological samples III: Simultaneous multi-residue analysis of 439 pesticides in saliva, 2019 Korean society of clinical toxicology (Aug-30-2019) Korea (Poster)

4)**Eunyoung Park**, Yongho Shin, Junghak Lee, Xiu Yuan, Mai Rehan, Beom Jun Ko, Hye Suk Lee, Jeong-Han Kim. Research on the establishment of multi-residue simultaneous analysis of pesticides in biological samples IV: Simultaneous multi-residue analysis of 439 pesticides in Hair, 2019 Korean society of clinical toxicology (Aug-30-2019) Korea (Poster)

5)**Eunyoung Park**, Jonghwa Lee, Jiho Lee, Yongho Shin, Junghak Lee, Byung Joon Kim, Mai Rehan, Sujin Baek, Darae Jeon, Xiu Yuan, hyejin Yu, Seohyun Kim, Jeong-Han Kim. A Study on Analytical Methods for Fluazinam and Probenazole in the Brassica Leafy Vegetables Using LC-MS/MS, 2017 The Korean Society of Pesticide Science (Nov-2-2017) Korea (Poster)