

## Contact Information

### **Yong Jin Lee, Ph.D.**

Department of Natural Sciences

[yong.lee@asurams.edu](mailto:yong.lee@asurams.edu)

229.500.2301 (office)

Lab Website: <https://theleelab.wixsite.com/home>

## Research Areas and Interests

Microbiomics

Microbial Ecology

Climate Change Biology

Microbial Forensics

## Teaching

**BIOL 1112K, Introduction to Biological Sciences II**

**BIOL 2107K, Principles of Biology I**

**BIOL 2211K, Introduction to Microbiology**

**BIOL 3320K, Principles and Techniques in Water Resource**

**BIOL 3333K, Microbiology and Applications**

**BIOL 3506, Bioinformatics**

**BIOL 5504, Ecology**

**ISCI 5515, Integrated Topics of Biology**

## Professional Experiences

**2018-present, Associate Professor, Albany State University**

**2013-2018, Assistant Professor, Albany State University**

**2009-2013, Postdoctoral Research Associate, University of Oklahoma**

**2005-2009, the National Research Council Research Associate, US Environmental Protection Agency**

## Publications

1. Daddy Gaoh S, O. Kweon, **Y.-J. Lee**, D. Hussong, B. Marasa, Y. Ahn. 2022. A Propidium Monoazide (PMAxx)-Droplet Digital PCR (ddPCR) for the Detection of Viable *Burkholderia cepacia* Complex in Nuclease-Free Water and Antiseptics. *Microorganisms* 10(5): 943. <https://doi.org/10.3390/microorganisms10050943>
2. Daddy Gaoh S, O. Kweon, **Y.-J. Lee**, J. J. LiPuma, D. Hussong, B. Marasa, Y. Ahn. 2021. Loop-mediated isothermal amplification (LAMP) assay for detecting *Burkholderia cepacia* complex in non-sterile pharmaceutical products. *Pathogens* 10: 1071. <https://doi.org/10.3390/pathogens10091071>
3. Ahn Y, B. Gibson, A. Williams, P. Alusta, D. A. Buzatu, **Y.-J. Lee** et al. 2020. A comparison of culture-based, real-time PCR, droplet digital PCR and flow cytometric methods for the detection of *Burkholderia cepacia* complex in nuclease-free water and antiseptics. *J. Ind. Microbiol. Biotechnol.* 47: 475–484.
4. Johnson TC, Brown AS, Oommen Z, Okafor U, **Y.-J. Lee**. 2020. Development of Reverse Fingerprint Lifting Techniques for Forensic Applications. *Journal of Forensic Investigation* 8(1): 8.
5. Ahn, Y., U. J. Lee, **Y.-J. Lee**, J. J. LiPuma, D. Hussong, B. S. Marasa, C. E. Cerniglia. 2019. Oligotrophic media compared with a tryptic soy agar or broth for the recovery of *Burkholderia cepacia* complex from different storage temperatures and culture conditions. *J. Microbiol. Biotechnol.* 29(10): 1495-1505. doi: 10.4014/jmb.1906.06024.
6. Wang, Y., B. Kim, A. Walker, S. Williams, A. Meeks, **Y.-J. Lee**, S. S. Seo. 2019. Cytotoxic effects of parathion, paraoxon, and their methylated derivatives on a mouse neuroblastoma cell line NB41A3. *Fundam. Toxicol.* 6(2):45-56.
7. Marimuthu, P., **Y.-J. Lee**, B. Kim, S. S. Seo. 2019. *In silico* approaches to evaluate the molecular properties of organophosphate compounds to inhibit acetylcholinesterase activity. *J. Biomol. Struct. Dyn.* 37 (2): 307-320. doi: 10.1080/07391102.2018.1426046.
8. Ahn, Y., J. M. Kim, **Y.-J. Lee**, J. J. LiPuma, D. Hussong, B. S. Marasa, C. E. Cerniglia. 2017. Effects of extended storage of chlorhexidine gluconate and benzalkonium chloride solutions on the viability of *Burkholderia cenocepacia*. *J. Microbiol. Biotechnol.* 27(12): 2211-2220. doi: 10.4014/jmb.1706.06034.
9. Tu, Q., H. Yu, Z. He, Y. Deng, L. Wu, J. D. Van Nostrand, A. Zhou, J. Voordeckers, **Y.-J. Lee**, Y. Qin, C. L. Hemme, Z. Shi, K. Xue, T. Yuan, A. Wang, J. Zhou. 2014. GeoChip 4: a functional gene-array-based high-throughput environmental technology for microbial community analysis. *Mol. Ecol. Resour.* 14: 914-928. doi: 10.1111/1755-0998.12239
10. Ahn, Y., J. M. Kim, H. Ahn, **Y.-J. Lee**, J. J. LiPuma, D. Hussong, C. E. Cerniglia. 2014. Evaluation of liquid and solid culture media for the recovery and enrichment of *Burkholderia cenocepacia* from distilled water. *J. Ind. Microbiol. Biotechnol.* 41: 1109-1118. doi: 10.1007/s10295-014-1442-3
11. **Lee, Y.-J.**, J. D. Van Nostrand, Q. Tuo, T. Yuan, L. Cheng, Z. Lu, Y. Deng, M. Q. Carter, Z. He, L. Wu, F. Yang, J. Xu, and J. Zhou. 2013. The PathoChip, a functional gene array for assessing pathogenic properties of diverse microbial communities. *ISME J.* 7:1974-1984.

## **Recent Grants**

**“Metagenome-Based Survey and Isolation of 1,4-Dioxane-Degrading Bacteria from Contaminated Soil and Groundwater at SRS” funded by Department of Energy - MSIPP (Role: Principal Investigator)**

**“Monitoring Tritiated Water Transport by Soil Microbiome at a Mixed Waste Disposal Site at SRS” funded by Department of Energy - MSIPP (Role: Principal Investigator)**

**“Surveying the Total Microbiome as Trace Evidence for Forensic Identification” funded by Department of Justice (Role: Principal Investigator)**

## **Awards and Honors**

**Scholar of the Year, 2021**

## **Education**

**PhD in Microbiology**, 2005, The University of Georgia, Athens, GA

**MS in Biology**, 1993, Hanyang University, Seoul, Korea

**BS in Biology**, 1991, Hanyang University, Seoul, Korea