**Junepyo Oh**

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**EDUCATION**

**Department of Entomology, Texas A&M University** (2020.08 – now)

Major: Entomology, Degree: Ph.D., Current GPA: 4.0/4.0

Project: Molecular interaction between ‘*Candidatus* Liberibacter solanacearum’ and the potato psyllid, *Bactericera cockerelli*, in the midgut

**Department of Applied Biology, Chungnam National University** (2018.09 – 2020.08)

Major: Plant Pathology, Degree: Master, GPA: 4.3/4.5

Graduation thesis: Virus occurences and phylogenetic analysis in tomato field in 2018 and a study on the pathogenic differences between two isolates of *tomato mosaic virus*

Chapter 1. General information about *Solanum lycopersicum*

Chapter 2. Differences in isolates of tomato yellow leaf curl virus from tomato fields located in Daejeon and Chungcheongnam-do between 2017 and 2018

Chapter 3. A study on the pathogenic differences between two isolates of tomato mosaic virus with two differential amino acid residues in the 128kDa protein

**Department of Applied Biology, Chungnam National University** (2011.03 – 2018.02)

Major: Applied Biology, Degree: Bachelor, GPA: 4.1/4.5

**Experiences**

**Graduate Research assistant (Texas A&M University) Aug 2020 – Current**

* Study the molecular interaction between potato psyllid and ‘*Candidatus* liberibacter solanacarum’ (Lso).

**Graduate Teaching assistant (Texas A&M University) Aug 2022 – Dec 2022**

* Medical Entomology (ENTO 618)

**Treasurer (Texas A&M University) May 2021 – Apr 2022**

* Entomology Graduate Student Organization (EGSO)

**Office Staff (Chungnam National University) Jul 2019 – Jul 2020**

* Finance & Accounting

**Publications**

**Oh, J.**, & Tamborindeguy, C. (2023). Treatment of Rapamycin and Evaluation of an Autophagic Response in the Gut of Bactericera cockerelli (Sulč). Insects, 14(2), 142.

<https://doi.org/10.3390/insects14020142>

**\*Oh, J.**, \*Levy, J. G., Kan, C. C., Ibanez-Carrasco, F., & Tamborindeguy, C. (2022). CLIBASIA\_00460 Disrupts Hypersensitive Response and Interacts with Citrus Rad23 Proteins. International Journal of Molecular Sciences, 23(14), 7846.

<https://doi.org/10.3390/ijms23147846>

\*Choi, G. W., **\*Oh, J. P.**, Cho, I. S., Ju, H. K., Hu, W. X., Kim, B., Seo, E. Y., Park, J. S., Domier, L. L., Hammond, J., Song, K., & Lim, H. S. (2019). Full-Length Infectious Clones of Two New Isolates of Tomato Mosaic Virus Induce Distinct Symptoms Associated with Two Differential Amino Acid Residues in 128-kDa Protein. The plant pathology journal, 35(5), 538–542. <https://doi.org/10.5423/PPJ.NT.12.2018.0286>

**Oh, J.-P.**, Choi, G.-W., Kim, J., Oh, M.-H., Kim, K.-H., Park, J., … Lim, H.-S. (2019). Differences in isolates of Tomato yellow leaf curl virus in tomato fields located in Daejeon and Chungcheongnam-do between 2017 and 2018. 농업과학연구, 46(3), 507–517. <https://doi.org/10.7744/KJOAS.20190034>

Kim, B., Cho, I.-S., Kim, I.-H., Choi, G.-W., Ju, H.-K., Hu, W.-X., **Oh, J.-P.**, Kim, J.-K., Seo, E., Domier, L. L., Hammond, J., & Lim, H.-S. (2019). Length of poly(A) tail affects transcript infectivity of three ZYMV symptom variants differing at only five amino acid positions. Journal of Plant Pathology, 101(4), 1187–1193.

<https://doi.org/10.1007/s42161-019-00316-4>

**In review**

A ‘*Candidatus* Liberibacter solanacearum’ haplotype B-specific family of candidate bacterial effectors (Phytopathology)

**Oral Presentations & Posters**

Application of rapamycin and evaluate autophagic responses in *Bactericera cockerelli* (Oral). 2022 ESA, ESC, and ESBC Joint Annual Meeting (Nov 13-16, 2022 in Vancouver, Canada)

Identification of difference in pathogenicity between two Korea tomato mosaic virus associated with differential amino acid residues in 128kDa protein (Oral). The 16th International Joint symposium between Korea and Japan (Nov 05–08, 2019 in Okayama, Japan)

Comparison of pathogenicity between two new Korea isolates of Tomato mosaic virus and identifying their difference in symptoms associated with differential amino acid residues in 128kDa protein (Oral). 2019 China-Korea Joint Academic Symposium (May 22-26, 2019 in Shenyang, China).

Construction of two infection cDNA clones of Tomato mosaic virus, and comparison of pathogenicity and the complete nucleotide sequence of two isolates (Oral). 10th international Joint Symposium between Korea and Japan (Nov 06–08. 2018 in Gangchon, Korea).

Strategy for identification of effectors from phloem-restricted bacterial pathogens (Poster) Levy JG., **Oh J**., Kan CC., Parida A., Tamborindeguy C. Plant Health 2022 Meeting. (Aug 06-10, 2022 in Pittsburgh, Pennsylvania)

**Lab Skills**

* PCR, RT-PCR, and qPCR
* Protein expression and purification
* Dot blotting and Western blotting
* Yeast two hybrid screening
* Immunoblotting
* Dissecting insect gut
* Bimolecular fluorescence complementation (BiFC)
* DNA and RNA analysis: DNA and RNA extraction, *in vitro* transcription
* DNA recombination: genetic transformation using restricted enzyme and gateway cloning
* E. coli and Agrobacteria transformation
* Agroinfiltration
* Quantification of reactive oxygen species (ROS)
* Transcriptomic analysis
* Construction of virus infectious clone and virus particle extraction
* Single amino acid substitution