Jing Zhou

University of Hawai‘i at Mānoa

College of Tropical Agriculture and Human Resilience

Department of Plant and Environmental Protection Sciences

FTE Distribution: 20% I; 40% R; 20% E; 20% S

EDUCATION

Degree	University	Major
B.S.	Qingdao Agricultural University	Biotechnology
M.S.	University of Arkansas	Cell and Molecular Biology
Ph.D.	University of Arkansas	Plant Pathology

PROFESSIONAL APPOINTMENTS

Title	Employer	Dates Employed
Assistant Professor	University of Hawai‘i at Mānoa	2025 – present
Research Plant Pathologist	USDA-ARS/ORISE	2022 – 2025
Research Scientist	USDA-APHIS-PPQ-PGQP/ Texas A&M University	2020 – 2022
Research Scholar	USDA-APHIS-PPQ-CPHST/ North Carolina State University	2019 - 2020

PUBLICATIONS

Patents

I.E. Tzanetakis and **J. Zhou**. Peptides that Block Transmission of Orthotospoviruses. 2023. Patent No. US 11,597,945 B2.

Conference Proceedings

K.S. Ling, **J. Zhou**, N. Jaiswal, B. Zia, B. Chada, A. Gillard, A. Shi, J. Tung, S. P. Dinesh-Kumar, S.

Whitham, B. Baker. 2024. Managing tomato brown rugose fruit virus on tomato by incorporating short-term disinfection and long-term disease resistance. Oral presentation at the 2024 International Symposium on Tomato Diseases. Brasilia, Brazil. October 1-4, 2024.

J. Zhou, A. Gillard, J. Tung, S. P. Dinesh-Kumar, S. Whitham, B. Baker, K.S. Ling. 2024. *N* NLR-mediated resistance to tomato brown rugose fruit virus in transgenic tomato and characterization of its temperature sensitivity. Oral presentation at the Technical Session: Climate Change, Plant Health 2024 – Annual Conference of American Phytopathology Society (APS). Memphis, TN. July 27-30, 2024.

J. Zhou and K. S. Ling. 2023. Emerging tobamoviruses: *Tomato brown rugose fruit virus* (ToBRFV) and *Cucumber mottle mosaic virus* (CGMMV). Oral presentation at the Special Session: lightning updates on emerging and re-emerging diseases, Plant Health 2023 – Annual Conference of American Phytopathology Society (APS). Denver, CO, August 12-16, 2023.

J. Zhou, B. Zia and K. S. Ling. 2023. Existing and potential virus threats to the U.S. cucurbit industry: cucumber green mottle mosaic virus and related tobamoviruses. Oral presentation at the Special Session: the emerging viruses in cucurbits working group, working together to create a sustainable future for cucurbit production in the United States, Plant Health 2023 – Annual Conference of American Phytopathology Society (APS). Denver, CO, August 12-16, 2023.

J. Zhou, A. Gillard, K. Ling. 2023. Efficient transmission of tomato brown rugose fruit virus through hydroponic irrigation nutrient solution in greenhouse. Poster presentation at Plant Health 2023 – Annual Conference of American Phytopathology Society (APS). Denver, CO, August 12-16, 2023.

J. Zhou., G. Wei and V. Mavrodieva. 2020. Improvement for molecular detection of tomato black ring virus. Poster presentation at Annual Meeting of American Phytopathology Society (APS). Virtual due to CoVID-19. August 10-14, 2020.

Refereed Journal Publications

J. Zhou, A. Gilliard, J. Tung, S.P. Dinesh-Kumar, S.A. Whitham, B. Baker, K. Ling. 2025. The *N* gene protects tomato plants from tomato brown rugose fruit virus infection. Plant Biotechnology Journal. DOI: 10.1111/pbi.70237

J. Zhou, A. Gillard, K. Ling. 2024. *Tomato brown rugose fruit virus* is transmissible through a greenhouse hydroponic system but may be inactivated by cold plasma ozone treatment. Horticulturae. 10 (4), 416.

J. Zhou, X. Hu, P. Vieira, B.W. Atha III, C. McFarland, J.A. Foster, O.P. Hurtado-Gonzales. 2023. Molecular characterization of horse nettle virus A, a new member of subgroup B in the genus *Nepovirus*. Archive of Virology. 168 (3), 86.

B. Adhikari, **J. Zhou**, X. Hu, R.S. Turner, C. McFarland, J.A. Foster. 2023. Complete genome sequence of zoysia mosaic virus, a novel member of the genus *Poacevirus*. Archives of Virology. 168 (5), 136.

M. Malapi-Wight, B. Adhikari, J. Zhou, L. Hendrickson, C.J. Maroon-Lango, C. McFarland, J.A. Foster, O.P. Hurtado-Gonzales. 2021. HTS-based diagnostics of sugarcane viruses: seasonal variation and its

implications for accurate detection. Viruses. 13 (8): 1627.

K. Dey, M. Vilez-Climent, P. Soria, O. Batuman, V. Mavrodieva, G. Wei, **J. Zhou**, S.T. Adkins, and J. McVay. 2021. First report of tomato brown rugose fruit virus (ToBRFV) infecting tomato in Florida, USA. New Disease Reports. 44: e12028.

J. Zhou and I.E. Tzanetakis. 2020. Transmission blockage of an orthotospovirus using synthetic peptides. Journal of General Virology. 101: 112-121.

J. Zhou., Donn. T. Johnson and I.E. Tzanetakis. 2020. Assessing soybean genotypes for feeding damage by *Neohydatothrips variabilis* (Thysanoptera: Thripidae). Crop Protection. 128: 104983.

J. Zhou and I.E. Tzanetakis. 2020. Soybean vein necrosis orthotospovirus can move systemically in soybean in the presence of bean pod mottle virus. Virus Genes. 56: 104-107.

Leadership Roles and Services

Committee Chair, Vector-Pathogen Complexes Committee, American Phytopathological Society (2025 - present)

Committee Secretary, Virology Committee, American Phytopathological Society (2022 - 2023)