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Research Interests

- **Microbial resource collection, evaluation, and application**
- **Plant-bacteria interactions**
- **Microbiome and phytomicrobiome engineering**

Publication

Genomic insights into a plant growth-promoting Pseudomonas koreensis strain with cyclic lipopeptide-mediated antifungal activity, MicrobiologyOpen, 2020, DOI: 10.1002/mbo3.1092

Characterization of a versatile plant growth-promoting rhizobacterium Pseudomonas mediterranea strain S58, Microorganisms, 2020, DOI: 10.3390/microorganisms8030334

Characterization of the ModABC molybdate transport system of Pseudomonas putida in nicotine degradation, Frontiers in Microbiology, 2018, DOI: 10.3389/fmicb.2018.03030

Modular approach to the type III effector repertoire in Pseudomonas syringae pv. tomato DC3000 reveals a matrix of effector interplay in pathogenesis, Cell Reports, 2018, DOI: 10.1016/j.celrep.2018.04.037

Defining essential processes in plant pathogenesis with Pseudomonas syringae pv. tomato DC3000 disarmed polymutants and a subset of key type III effectors, Molecular Plant Pathology, 2018, DOI: 10.1111/mpp.12655

Supramolecular structure and functional analysis of the type III protein secretion system in Pseudomonas fluorescens 2P24, Frontiers in Plant Science, 2016, DOI: 10.3389/fpls.2015.01190

Consequences of flagellin export through the type III secretion system of Pseudomonas syringae reveal a major difference in the innate immune systems of mammals and the model plant Nicotiana benthamiana, Cellular Microbiology, 2013, DOI: 10.1111/cmi.12059

Multiple lessons from the multiple functions of a regulator of type III secretion system assembly in the plant pathogen Pseudomonas syringae, Molecular Microbiology, 2012, DOI: 10.1111/j.1365-2958.2012.08119.x