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Research Interests

- **Microbiology**
- **Plant-microbe interaction**
- **Microbiome**

Publication

Specialized metabolic functions of keystone taxa sustain soil microbiome stability, Microbiome, 2021, DOI:10.1186/s40168-020-00985-9

Root-Secreted Spermine Binds to Bacillus amyloliquefaciens SQR9 Histidine Kinase KinD and Modulates Biofilm Formation, Molecular Plant-Microbe Interactions, 2020, DOI:10.1094/MPMI-07-19-0201-R

Exploring Elicitors of the Beneficial Rhizobacterium Bacillus amyloliquefaciens SQR9 to Induce Plant Systemic Resistance and Their Interactions With Plant Signaling Pathways,Molecular Plant-Microbe Interactions,2018, DOI:10.1094/MPMI-11-17-0273-R

Identification of Root-Secreted Compounds Involved in the Communication Between Cucumber, the Beneficial Bacillus amyloliquefaciens , and the Soil-Borne Pathogen Fusarium oxysporum,Molecular Plant-Microbe Interactions,2017, DOI:10.1094/MPMI-07-16-0131-R

Beneficial rhizobacterium Bacillus amyloliquefaciens SQR9 induces plant salt tolerance through spermidine production, Molecular Plant-Microbe Interactions, 2017, DOI:10.1094/MPMI-02-17-0027-R

Plant-Microbe Communication Enhances Auxin Biosynthesis by a Root-Associated Bacterium, Bacillus amyloliquefaciens SQR9, Molecular Plant-Microbe Interactions, 2016, DOI:10.1094/MPMI-10-15-0239-R

Characterization of Uncultured Genome Fragment from Soil Metagenomic Library Exposed Rare Mismatch of Internal Tetranucleotide Frequency, Frontiers in Microbiology, 2016, DOI:10.3389/fmicb.2016.02081

Quorum sensing signal autoinducer-2 promotes root colonization of Bacillus velezensis SQR9 by affecting biofilm formation and motility,Applied Microbiology and Biotechnology,2020, DOI:10.1007/s00253-020-10713-w

Root-Secreted Spermine Binds to Bacillus amyloliquefaciens SQR9 Histidine Kinase KinD and Modulates Biofilm Formation, Applied Microbiology and Biotechnology, 2020, DOI:10.1007/s00253-019-10265-8

Reduced root secretion of valine in Rosa-microbe interaction contributes to the decreased colonization of pathogenic Agrobacterium tumefaciens, Plant Disease, 2021, DOI:10.1094/PDIS-06-20-1179-RE