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Joint Conference

6th Annual Conference on MICROBIOLOGY & Annual Conference on

MICROBES AND BENEFICIAL MICROBES

October 16-17, 2017 Baltimore, USA

Mycophagous activity of Burkholderia gladioli NGJ1 against Rhizoctonia solani

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Fusarium oxysporum, Ascochyta rabiei and oomycetes pathogen Phytophthora sp.. The bacterium prevented the growth of *R. solani*, utilized them as source of nutrition and induced cell death responses. The *R. solani* sclerotia on coinoculation with *B. gladioli* couldn't cause disease on tomato leaves and rice tillers suggesting that mycophagous phenomenon could be used as a strong biocontrol agent for sheath blight by *R. solani* and several other economic important plant diseases. The metabolomics study of NGJ1 was done at various time intervals to understand the role of secondary metabolites during bacterial-fungal interactions along with two mycophagous defective mutants of NGJ1. I would discuss our efforts to functionally characterize few of such metabolites and other putative players during bacterial mycophagy and utilization thereof in controlling sheath blight disease of rice.

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