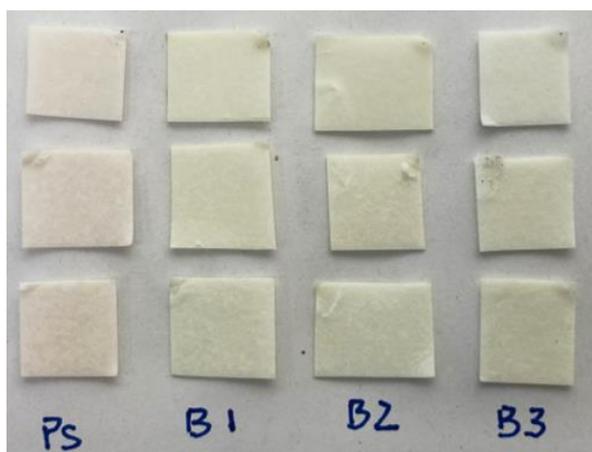
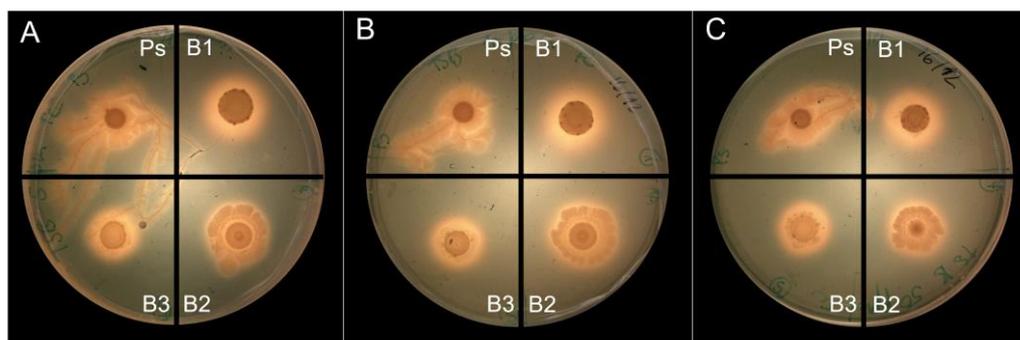


# Role of *Bacillus* spp. Plant Growth Promoting Properties in Mitigating Biotic and Abiotic Stresses in Lowland Rice (*Oryza sativa* L.)

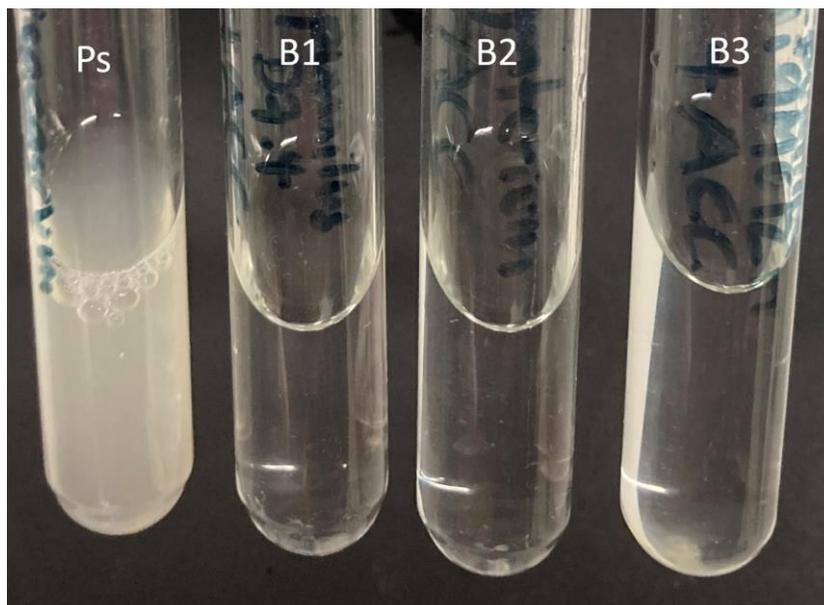
## Supplementary Material



**Figure S1.** HCN production. Color of Whatman filter paper changed from yellow to brownish in culture flasks with *Pseudomonas protegens* growing in TSB supplemented with glycine. Filter papers stayed yellow in flasks with *Bacillus* cultures in TSB supplemented with glycine and in medium without bacteria inoculation. Ps = *Pseudomonas protegens* CHAO; B1 = *B. pumilus* D7.4; B2 = *B. megaterium*; B3 = *B. pumilus* Ni9MO12.



**Figure S2.** Siderophore production after 21 days on medium supplemented with  $\text{FeSO}_4$ . Orange halos developed around all colonies independent of the concentration of supplemented iron and the bacteria isolate. A = TSA supplemented with 5 ppm Fe, B = TSA supplemented with 10 ppm Fe, C = TSA supplemented with 50 ppm Fe. Ps = *Pseudomonas protegens* CHAO; B1 = *B. pumilus* D7.4; B2 = *B. megaterium*; B3 = *B. pumilus* Ni9MO12.



**Figure S3.** ACC deaminase activity. Bacteria growth in minimal DF salts medium with ACC as sole source for nitrogen. Only *Pseudomonas protegens* CHAO was able to grow in this medium. Bacillus isolates showed no growth and are therefore considered negative for ACC deaminase activity. Ps = *Pseudomonas protegens* CHAO; B1 = *B. pumilus* D7.4; B2 = *B. megaterium*; B3 = *B. pumilus* Ni9MO12.