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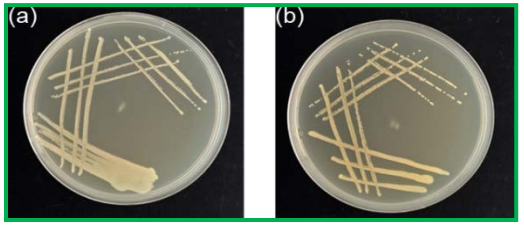
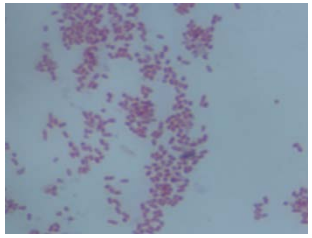
Halotolerant plant growth-promoting bacteria *Enterobacter* sp. Av16 and *Acinetobacter* sp. Av23 enhance seed germination and seedling photosynthesis of *Apocynum pictum* under salt stress

Key words: *Apocynum pictum* Schrenk; Salt stress; Plant growth-promoting bacteria (PGPB); Seed germination; Photosynthesis; Antioxidant enzyme

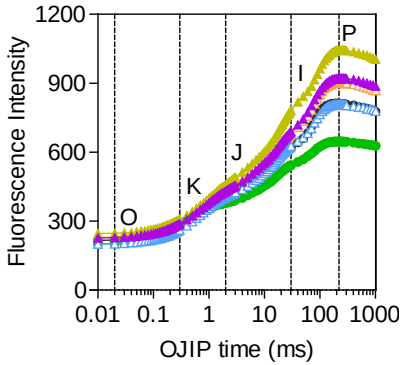
Research Summary

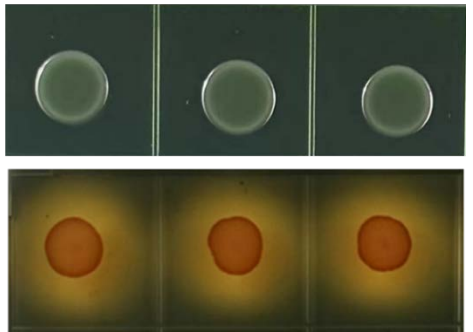


This study was conducted to screen halotolerant plant growth-promoting bacteria (PGPB), and elucidate the physiological responses of *Apocynum pictum* inoculated with PGPB under salt stress. The key roles of PGPB are as follows:



- **Improve seed germination and seedling growth**
- **Alleviate photosynthesis inhibition**
- **Activate antioxidant enzymes**
- **Stabilize photosystems**





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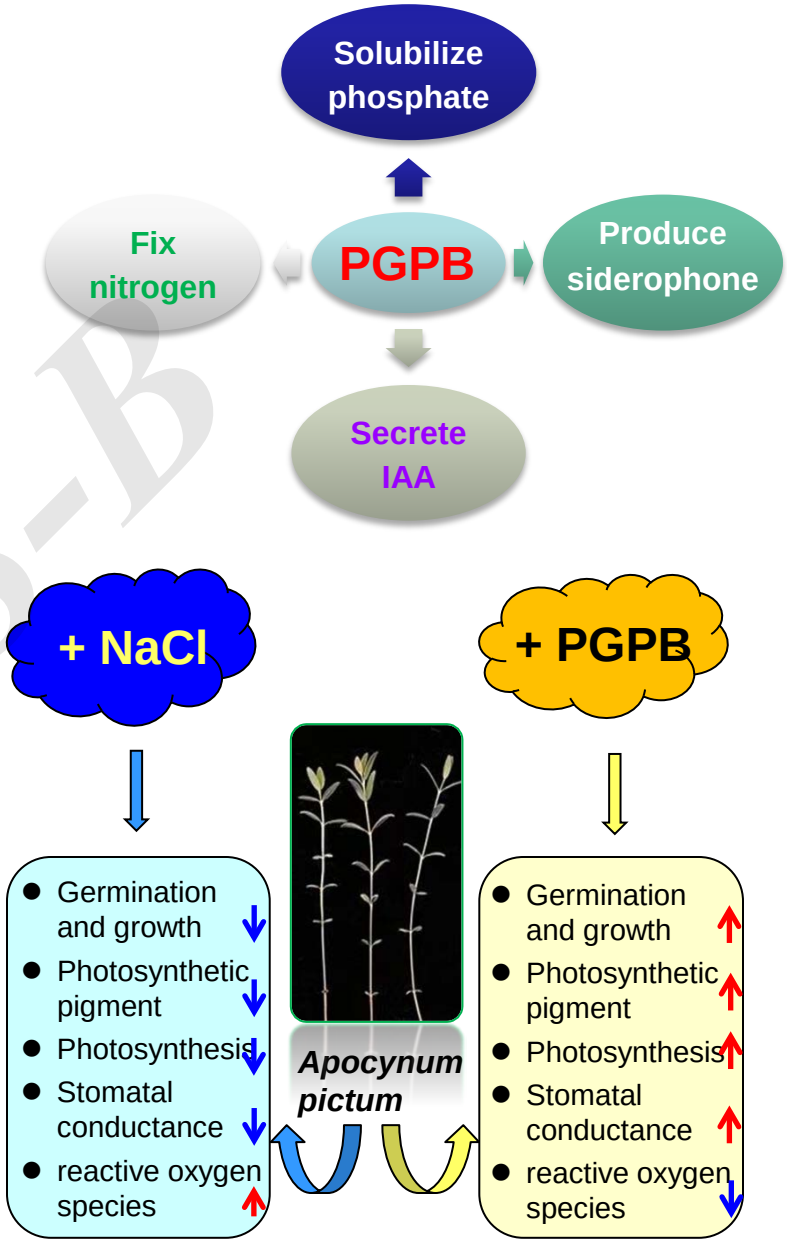
Innovation points

- **Screen out two PGPB that improve growth of the halophyte *A. pictum***
- **PGPB enhance the salt tolerance of *A. pictum* by the synergistically regulating "photosystem stability-stomatal conductance-antioxidant defense" network**



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