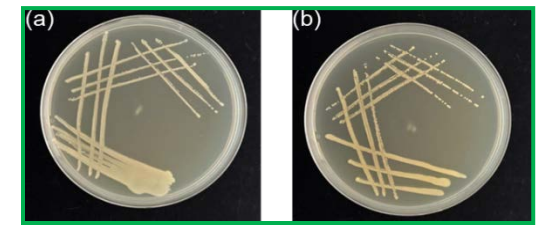


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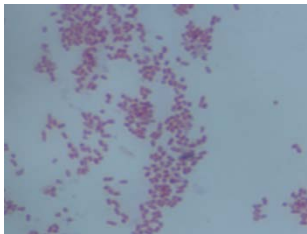
**Halotolerant plant growth-promoting bacteria
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enhance seed germination and seedling photosynthesis
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Key words: *Apocynum pictum* Schrenk; Salt stress; Plant growth-promoting bacteria (PGPB); Seed germination; Photosynthesis; Antioxidant enzyme

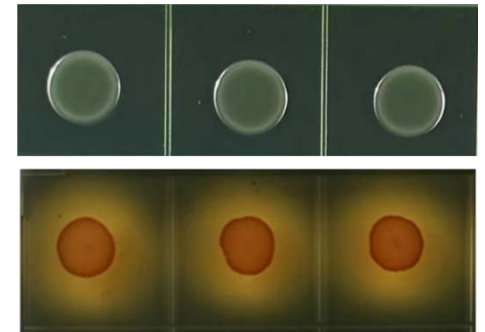
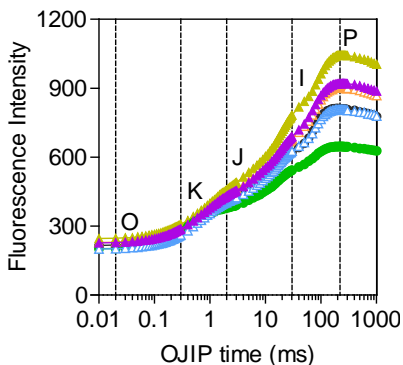
Research Summary



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



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

