



Success Story

Bacterial Protection and Augmentation of Cereal Crops

The Technology

Flinders University researchers have discovered that actinomycete bacteria have the ability to control a range of plant diseases, and support the production of plant growth promoting compounds. The bacterium produces an array of secondary metabolites including plant growth regulators, antibacterial, antifungal, antiviral and antiparasitic agents. The antifungal compounds protect plants from infections such as Take All (*Gaeumannomyces graminis* var. *tritici*) and *Rhizoctonia solani* (up to 70% in greenhouse trials). These agents also combine to increase germination efficiency and early vigour, especially evident in roots. The bacteria have also shown signs of activity against insect and nematode pests.

Our Partner

- Novozymes A/S

Research Team

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