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Title: Endophytic bacteria with plant growth promoting and biocontrol abilities

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Stellingen

Behorende bij het proefschrift

Endophytic bacteria with plant growth promoting and biocontrol abilities

1. *Bacillus subtilis* HC8 has great promise as a versatile bioinoculant agent (this thesis).
2. *Bacillus subtilis* HC8 produces a remarkably wide range of cyclic lipopeptides which is likely to be a major reason of its various beneficial properties (this thesis).
3. *Pseudomonas fluorescens* CS1 colonizes the plant's interior and thrives within a growing plant (this thesis).
4. Utilization of L-arabinose by endophytic pseudomonads might be important for their endophytic lifestyle (this thesis).
5. It is likely that the future role of biological crop protection products will be one in combination with other agents and/or methods.
6. The advantage of using endophytic bacteria in sustainable crop production is that they can form a stable, long-lasting association with a plant.
7. The outcome of plant-microbe interactions is greatly affected by soil characteristics.
8. It is unlikely that a single mechanism of biocontrol can be effective against a pathogen in long-term plant protection.
9. The establishment of many new scientific ideas goes through several stages starting with violent opposition and ending with full acceptance.
10. Problem solving, in science and in life in general, starts with asking the right questions.
11. Every great achievement requires hard working, devotion and a portion of luck.
12. Honesty should be the principal virtue of every human being, whether (s)he is a scientist or not.