

The present invention is generally directed to fusion proteins containing a targeting sequence that targets the fusion protein to the exosporium of a *Bacillus cereus* family member. The invention also relates to recombinant *Bacillus cereus* family members expressing such fusion proteins and formulations containing the recombinant *Bacillus cereus* family members expressing the fusion proteins. Methods for stimulating plant growth, for protecting plants from pathogens, and for enhancing stress resistance in a plant by applying the recombinant *Bacillus cereus* family members or the formulations to plants or a plant growth medium are also described. The invention also relates to methods for immobilizing spores of a recombinant *Bacillus cereus* family member expressing a fusion protein on plants.