

Modes of action of non-pathogenic *Fusarium oxysporum* endophytes for bio-enhancement of banana toward *Radopholus similis*



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(Rebecca Bechtelar)

MODES OF ACTION OF NON-PATHOGENIC FUSARIUM OXYSPORUM ENDOPHYTES FOR BIO-ENHANCEMENT OF BANANA TOWARD RADOPHOLUS SIMILIS


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Cuvillier Verlag Feb 2005, 2005. Taschenbuch. Condition: Neu. Neuware - Recently, mutualistic endophytic *F. oxysporum* isolates were documented as candidates for biological control against plant parasitic nematodes. However, understanding their mechanisms of action toward *R. similis* was poorly known. The following can be summarized from the present findings: 1. Pathogenicity of endophytic *F. oxysporum* isolates toward *R. similis* Non-pathogenic endophytic *F. oxysporum* isolates directly affected *R. similis* survival in the absence of banana plants. In both synthetic media and in the soil, *F. oxysporum* isolates decreased mobility of *R. similis* when compare to the untreated controls. *F. oxysporum* was not shown to be a parasite of the nematode. Toxins in culture filtrates of *F. oxysporum* isolates Fo162 and V5W2 reduced mobility of *R. similis* in vitro; however the toxic effects were not lethal. 2. Colonization, plant growth promotion and vegetative compatibility of endophytic *F.oxysporum* The *F. oxysporum* isolates Fo162 and V5W2 not only colonized excellently on banana roots a short time after fungal application but also persisted in the root tissues for over 14 weeks. The *F. oxysporum* isolates also promoted banana growth in long term experiments in the absence of *R. similis*. The *F. oxysporum* isolates A1, Fo162 and V5W2 were shown to be unrelated genetically to the important pathogenic *Fusarium* wilt diseases of bananas and tomatoes by VCG testing. Therefore, these mutualistic endophytic *F. oxysporum* isolates are not only beneficial and non-pathogenic on bananas but also are not pathogenic to other crops. These results indicate that endophytic *F. oxysporum* isolates A1, Fo162 and V5W2 are strong candidates for biocontrol in the field. 3. Modes of action of non-pathogenic endophytic *F. oxysporum* isolates toward burrowing nematode *R. similis* on banana The *F. oxysporum* isolates reduced nematode penetration in banana plants when compared to untreated controls. The *F. oxysporum* not only...


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