

研究简报

松材线虫对其携带的细菌繁殖的影响

林峰; 赵博光

南京林业大学森林资源与环境学院, 南京 210037

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摘要

关键词

分类号

Effects of pine wood nematode on propagation of its carrying bacteria

LIN Feng,ZHAO Boguang

College of Forestry Resources and Environment,Nanjing Forestry University,
Nanjing 210037,China

Abstract

In this paper,the aseptic eggs of *Bursaphelenchus xylophilus* were obtained after treated with 30% H₂O₂,and cultured with *Pinus thunbergii* callus.Ten *B.xylophilus*-carrying bacterial strains directly isolated from diseased *P.thugbergii* and *P.massoniana* in six epidemic provinces i.e.,GcM6-2A *Pseudomonas putida* ,GcM6-1A *P.putida*,ZpB1-2A *P.putida*,HeM2A *Pseudomonas* sp.,HeM1A *Pseudomonas* sp.,HeM142B *Pseudomonas* sp.,GcM1-3A *P.cepacia* and HM3 *Pantoeu* sp.,ZpB4-2B *Staphylococcus sciuri* and ZpB2-3A *Enterobacter amnigenus* ,were collected,and the effects of axenic *B.xylophilus* (ABx) on their propagation were studied.The results showed that pine wood nematode (PWN) promoted the propagation of 7 bacterial strains in *Pseudomonas* and 1 bacterial strain in *Pantoeu* sp., including *Pseudomonas putida*, *P.putida*, *P.putida*, *Pseudomonas* sp., *Pseudomonas* sp., *Pseudomonas* sp., *P.cepacia* and *Pantoeu* sp.,but inhibited *Staphylococcus sciuri* and *Enterobacter amnigenus*,which could explain the phenomenon that *Pseudomonas* was the prevailing genus of the bacteria carried by PWN,and might provide essential nutrition to the bacteria.The close relationship between PWN and bacterial strains in *Pseudomonas* might account for the pine wood nematode disease.

Key words [Pine wood nematode disease](#) [Pathogenic bacteria](#) [Complex infection](#) [Propagation](#)

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