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SHORT COMMUNICATION

Bacteria associated with the pinewood nematode Bursaphelenchus xylophilus collected in Portugal

Cláudia S. L. Vicente, Francisco Nascimento, Margarida Espada, Manuel Mota and Solange Oliveira

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ABOUT

Abstract

In this study, we report on the bacterial community associated with the pinewood nematode $Bursaphelenchus\ xylophilus\ from\ symptomatic\ pine\ wilted\ trees,\ as\ well\ as\ from\ long-term\ preserved\ B.$ xylophilus laboratory collection specimens, emphasizing the close bacteria-nematode associations that may contribute to pine wilt disease development.

Keywords Pine wilt disease - Bursaphelenchus xylophilus - Nematode - Bacteria - Phylogeny

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Hin will disease (PWD) is considered a worldwide threat to pine forests, resulting in massive economic losses and negative ecological consequences for the affected countries (Rodrigues 2008; Xie et al. 2008). In 1971, the pinewood nematode (PWN) Bursuphelenchus sylophilus was proven to be the causal pathogenic agent of PWD (Kyohara and Tokshelge Chenchus sylophilus was proven to be the causal pathogenic agent of PWD (Kyohara and Tokshelge Chenchus sylophilus was proven to be the causal pathogenic agent of PWD (Kyohara and Tokshelge Chenchus sylophilus was proven to be the causal pathogenic agent of PWD (Kyohara and Tokshelge Chenchus sylophilus was proven to be the causal pathogenic agent of PWD (Kyohara and Tokshelge Chenchus sylophilus was proven to be the causal pathogenic agent of PWD (Kyohara and Tokshelge Chenchus sylophilus was proven to be the causal pathogenic agent of PWD (Kyohara and Tokshelge Chenchus sylophilus was proven to be the causal pathogenic agent of PWD (Kyohara and Tokshelge Chenchus sylophilus was proven to be the causal pathogenic agent of PWD (Kyohara and Tokshelge Chenchus sylophilus was proven to be the causal pathogenic agent of PWD (Kyohara and Tokshelge Chenchus sylophilus was proven to be the causal pathogenic agent of PWD (Kyohara and Tokshelge Chenchus sylophilus was proven to be the causal pathogenic agent of PWD (Kyohara and Tokshelge Chenchus sylophilus was proven commined to the causal pathogenic agent of PWD (Kyohara and Tokshelge Chenchus sylophilu

associated with diverse nematode species found together with PWD foci varies between sampling Burkholderia and Pseudomonas, as well as other bacteria from the family Enterobacteriaceae (Proença

et al. 2010).

Despite the fact that the bacterial populations vary within countries or regions, many known plant pathogenic bacteria have been identified among these

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