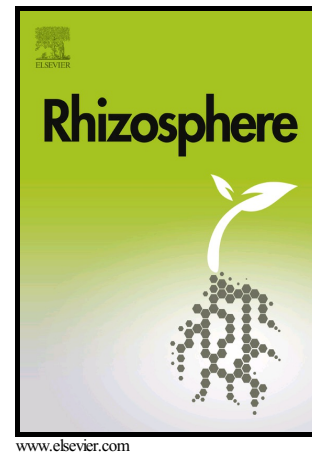


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An endophytic *Bacillus* strain promotes growth of oil palm seedling by fine root biofilm formation

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Abstract

Plant-microbe interaction is one of the most important determining factors that could influence plant health and soil fertility. In this research, plant-microbe interaction between *Bacillus salmalaya* strain 139SI and oil palm (*Elaeis guineensis* Jacq.) was initiated by inoculating *B. salmalaya* strain 139SI at the early stage of oil palm seedling growth. Colonization of the strain 139SI on oil palm seedling roots and its mechanisms of plant growth promotion were evaluated and characterized. Analysis of strain 139SI colonization showed that the strain colonizes and attached to the root surface by forming biofilm. The strain 139SI was identified as endophytic

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