Review article

Beneficial microbial diversity in the rhizosphere of *Casuarina equisetifolia* L. – A mini review

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ABSTRACT

Numerous studies have demonstrated that diverse biological activities of microbial populations existing in rhizosphere have major impact on the growth and yield of plants significantly. The rhizosphere is the physical location in soil where plants and microbes interact. Casuarina equisetifolia L. is a multifunctional actinorhizal tree that grows quickly. Local people rely on Casuarina plants for non-wood forest products, small-scale timber, and fuel and are being used increasingly for rehabilitating deforested watersheds and other degraded landscapes. This brief review described the advantageous effects of several microorganisms found in the rhizosphere of C. equisetifolia, which contribute to the development, biomass, and enhancement of forest seedling quality by providing macro and micronutrients.

Keywords: AM fungi, *Casuarina equisetifolia*, *Frankia*, litter decomposers, rhizosphere