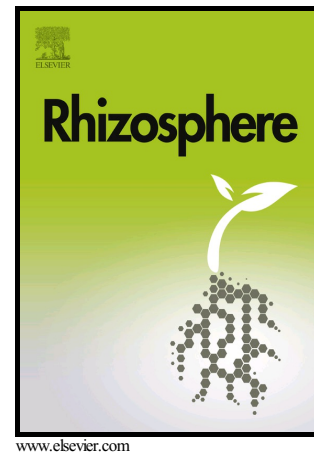


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A native arbuscular mycorrhizal fungus inoculant outcompetes an exotic commercial species under two contrasting yam field conditions

Aka Niangoran Marie-Stéphanie KOUADIO^a, Jacob NANDJUI^a, Serge Martial KROU^a, Drolet Jean-Marc SERY^a, Paul N. NELSON^b, Adolphe ZEZE^{a*}

^aLaboratoire de Biotechnologies Végétale et Microbienne, Unité Mixte de Recherche et d'Innovation en Sciences Agronomiques et Génie Rural, Institut National Polytechnique Félix Houphouët-Boigny (INP-HB), Yamoussoukro, Côte d'Ivoire

^bJames Cook University (Cairns, Australia)

***Corresponding author:**

email address: youhe.deba@gmail.com

phone number: 00225 09 77 43 26

postal address : BP 1313 Yamoussoukro (Cote d'Ivoire)

Abstract

This study aimed to assess the performance of an indigenous arbuscular mycorrhizal fungus (AMF) inoculant isolated from yam rhizosphere on yam (*Dioscorea rotundata* Poir.) growth and yield in field conditions. For this purpose, a factorial experiment was carried out in two contrasting agricultural soils located in Duokro and INP-HB in Yamoussoukro, Côte d'Ivoire. The Duokro soil was neutral sandy loam with high nutrient content and an established AMF community dominated by Glomeraceae Spain & N.C. Schenck) isolated from cassava rhizosphere, applied singly or together, and *Rhizophagus intraradices* (N.C whereas the INP-HB soil was acidic sand with low nutrient content and codominance of Glomeraceae and Paraglomeraceae. The inoculation treatments were

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