**Abstract**

Associations of arbuscular mycorrhizal (AM) and dark septate endophyte (DSE) fungi with 38 ginger species (Zingiberaceae) and two spiral gingers (Costaceae) were investigated. All species were mycorrhizal, and the status of 35 gingers and one spiral ginger has been investigated for the first time. The extent of AM colonization and the root length colonized by AM structures varied significantly among species. AM structures were also observed in non-root portions such as scale leaves. Arbuscular mycorrhizae were of either Aram-type or intermediate- type; AM-type is reported for the first time in 37 species. Spores of 16 morphotypes belonging to 4 genera (Glomus, Acaulospora, Scutellospora, Racocetra) were identified from the rhizosphere soil. DSE colonization was found in 22 gingers and 2 spiral gingers. Twenty-two plant species are reported as hosts of DSE fungi for the first time. The extent of total AM and DSE colonization was not correlated.