

NEW HOST RECORDS OF ROOT-KNOT NEMATODES (*MELOIDOGYNE* SPECIES) IN PAKISTAN

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Abstract

A survey of botanical garden of University of Agriculture, Faisalabad was conducted for plant parasitic nematodes. Plants showing characteristic symptoms like yellowing and stunting were uprooted and examined. Two plants species viz., *Cordyline terminalis* and *Psoralea corylifolia* L. were found with heavy galling on their roots. Under stereomicroscope mature females from infested roots were dissected and perineal patterns were prepared. They were identified as *Meloidogyne incognita* (Kofoid & White, 1919) Chitwood, 1949 and *M. javanica* (Treub, 1885) Chitwood, 1949 (Eisenback *et al.*, 1981). Mixed population of *M. incognita* and *M. javanica* was found in both plants. *M. incognita* pattern resembles in having a distinct dorsal arch composed of smooth to wavy lines and no lateral incisures, while *M. javanica* in having a low dorsal arch and distinct lateral incisures. These hosts are new record of *M. incognita* and *M. javanica*, not reported earlier in Pakistan (Maqbool & Shahina, 2001; Khanzada & Khan, 2003; Zarina, 2004).