

**ADDITIONAL HOSTS OF ROOT-KNOT
NEMATODES IN PAKISTAN**

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Abstract

During a recent survey of phyto nematodes heavy galling of roots of rose (*Rosa indica*) and kutta grass (*Setaria verticillata*) growing at the University of Karachi campus was found due to infestation of root knot nematodes.

Using perineal pattern types of the mature females, morphology of male head and measurement of larvae *Meloidogyne incognita* (Kofoid & White, 1919) Chitwood, 1949 was identified on rose and *M. javanica* on kutta grass. In *M. incognita* the perineal pattern showed a distinct high dorsal arch composed of smooth and wavy striae, the male head with large and round labial disc centrally concave generally marked with 2-3 annules, second stage juvenile total length 346-463 (405) μm , tail length 42-62 (52) μm stylet 14-16 (15) μm . In *M. javanica* (Treub, 1885) Chitwood, 1949 the perineal patterns were rounded with flattened dorsal arch and distinct lateral lines, male head with dumbbell shaped labial disc and medial lips, marked by one incomplete annule, second stage larvae length 402-560 (488) μm tail 51-53 (50) μm , stylet 14-16 (15) μm .

These appear to be new hosts of the root-knot nematodes in Pakistan and not reported by Gul & Saeed (1987) and Maqbool et al (1988).