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Screening of fennel (*Foeniculum vulgare* Mill.) varieties for resistance against root-knot nematode, *Meloidogyne incognita*

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ABSTRACT : An experiment was conducted in pot condition to screen the reaction of eleven varieties of fennel (*Foeniculum vulgare* Mill.) against root-knot nematode, *Meloidogyne incognita*. Six inches sized earthen clay pots were filled with 1 kg sterilized soil in each pot. The freshly collected, surface sterilized seeds were sown. After germination of 30 days, J_2 of *M. incognita* were inoculated in the root zone of fennel plant at the inoculum level of 1000 larvae per plant. Out of 11 varieties, only three varieties *viz*. HISAR SWARUP, RF 125 and GF 2 were found resistant, while five varieties *viz*. RAJENDRA SWARUP, PANT MADHURIKA, GF 11, AZAD SAUNF 1 and RF 101 were found moderately resistant reaction. Remaining three varieties *viz*. RF-143, AF-1 and local check (Abu Saunf) was categorized under susceptible.

Key Words: Root-knot nematode, *Meloidogyne incognita*, Varietal screening, Fennel.