

Screening of some popular Indian varieties of tomato and brinjal against root-knot nematode *Meloidogyne incognita*

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ABSTRACT : Vegetables are vital nutritional elements in a vegetarian diet. Tomato and brinjal have a special position in Indian diet due to their high nutritive value and low-costing. Root knot nematode (*Meloidogyne incognita*) causes major loss to these two vegetable crops. Nine varieties of brinjal namely Small long white, BRSPS14, IVBL 9, IVBHL 54, NASSAPPE, Pant Rituraj, DBL-24, Uttara, Punjab Sadabahar and five varieties of tomato namely Punjab Chhuhara, IIVR Sel.1, NF31Sb8, VFN 8, NF 31 were screened for their susceptibility and resistance against *Meloidogyne incognita*. Observations were recorded as number of root knot per plant, shoot length, root length and their respective fresh weight and the reactions were recorded on a scale of 1-5. Results demonstrated that among 9 varieties of brinjal, three varieties Small long white, DBL-24, Punjab Sadabahar were found moderately resistant and remaining were found susceptible, whereas NF31Sb8 variety of tomato was found resistant and remaining four varieties were recorded moderately resistant.

Key Words: *Meloidogyne incognita*, tomato, brinjal, root-knot nematode.