

## **EFFECT OF NEEM PRODUCTS ON GROWTH, HATCHING AND MORTALITY OF *MELOIDOGYNE INCOGNITA* ON TOMATO PLANTS**

**M.M. JISKANI, S.M. NIZAMANI, K.H. WAGAN, A.N. MUGHERI,  
J.A. MEMON AND S.H. SOOMRO**

*Department of Plant Pathology, Sindh Agriculture University, Tandojam, Sindh, Pakistan*

### **Abstract**

Different doses of neem oil, neem-seed decoction and neem leaf extract were tested to see their effect on the reproductive activity of *Meloidogyne incognita* on tomato. Growth of tomato plants significantly increased with all doses of neem oil followed by neem-seed decoction and neem leaf extract. The number of root-galls per plant, egg masses per root system, and eggs per egg-mass also significantly decreased with neem oil as compared to neem-seed decoction and neem leaf extract. The hatching inhibition rate of egg-masses was increased with neem oil followed by neem seed-decoction and neem leaf extract as compared to distilled water treatment. Neem oil significantly increased the mortality rate of second stage larvae/juveniles after 1 day and 5 days exposure than that of neem seed-decoction, neem leaf extract and in distilled water treatment (control). The rate of hatching and mortality of juveniles was highly correlated with the dose of neem products and also neem exposure.