

## HISTOPATHOLOGY OF GRAPEVINE ROOTS INFECTED WITH ROOT-KNOT NEMATODE *MELOIDOGYNE INCOGNITA*

A. KHAN, F.M. BILQEES\* AND N. KHATOON\*\*

*Crop Diseases Research Institute, PARC,  
University of Karachi, Karachi-75270*

### Abstract

Histopathology of grapevine (*Vitis vinifera L.*) roots naturally infected with *Meloidogyne incognita* revealed that the larvae entered roots by puncturing action of the stylet and reached to the stellar region by intercellular penetration where cells were extensively damaged. The changes recorded were erosion of outer surface of root, compression and hyaline degeneration of cortical cells losing their normal shape, abscess formation in the cortical region and enlargement of cells in the medullary region specially those of the superficial tissues.