

**INTERACTION BETWEEN *MELOIDOGYNE JAVANICA*  
AND *AGROBACTERIUM TUMEFACIENS* ON  
TOMATO PLANTS**

**W.D. FAKHOURI, H. KHLAIF AND W.I. ABU-GHARBIH**

*Plant Protection Department, Faculty of Agriculture,  
University of Jordan, Amman, Jordan.*

**Abstract**

Effect of inoculation of tomato roots with *Meloidogyne javanica* and *Agrobacterium tumefaciens* was investigated under greenhouse conditions. Bacterial inoculum added to wounded tomato roots directly after planting resulted in heavy bacterial galling accompanied with reduced foliage dry weight and growth index. Reduced bacterial galling was observed when the bacterium and nematode inocula were used together two weeks after transplanting; while negligible bacterial galling was detected when bacterial inoculum was added two weeks after nematode inoculation. Significant reduction in nematode reproduction and activity was found when the bacterium and nematode inocula were used together two weeks after transplanting while only slight reduction was noticed when bacterial inoculum was added two weeks after nematode inoculation. This indicates no synergistic effect between the two pathogens whereas presence of the bacterium and nematodes showed negative effect on the activity of each other.