Project 7	Title
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- : Investigatons on Cultivar Reactions of Tomato Cultivars to Pith Necrosis and Possibities for Disease
- **Start /End Date** : 2001-2004
- Supporting Body : GDAR
- Leader : Nursen ÜSTÜN
- Co-researchers : Gönül DEMİR
- Summary

: In this study reactions of 31 tomato cultivars, 3 rootstock and some wild Lycopersicon (L. peruvianum var. humifusum, L. peruvianum f. glandulosum, L.hirsutum, L. pimpinellifolium, L. esculentum var. cerasiforme, L.chilense) species to tomato pith necrosis caused by Pseudomonas corrugata, Pseudomonas viridiflava, Pseudomonas cichori and E.carotovora subsp. carotovora were determined. None of the cultivars tested proved to be resistant to the P. corrugata, P. viridiflava, P. cichori, but tomato cultivars ACE 55 VF ve Nun 2048 were resistant to E.carotovora subsp carotovora. Rootstocks showed different reactions to the isolates. He-Mann ve Vigomax F 1 rootstoks were resistant to some isolates. Some wild spesies were found to be resistant to some isolates, but L. peruvianum f. glandulosum and L. peruvianum var humifusum were resistant to three isolates and modarately resistant to another one.

In the experiments carried out in plastic greenhouse of our Institute copper hydroxide (Champion), copper salts combined with mancozeb (Tri-Miltox), copper salts of oil and rozin acids (Tenn-copp), plant and yeast extracts (ISR 2000) and harpin protein(Messenger) showed 72.22 %, 25.93 %, 8.79 %, 20.37% effect, respectively in 2001. In 2002 no 43.06%, results from experiments were obtained. In 2003 the effect of hydroxide(Champion), copper penta copper hvdroxide (Mastercop), acibenzolar-S-methyl (Bion), plant and yeast extracts (ISR 2000) and treatment with plant and yeast extracts (ISR 2000) prior inoculation and copper hydroxide (Champion) in the day of inoculation was 66.33 %, 36.98%, 57.96%, 47.52% and 68.85% respectively.