

Abstract

Sources of resistance to tomato-yellow-leaf-curl-virus (TYLCV) were investigated in 16 accessions of three *Lycopersicon* species and 55 commercial tomato hybrids and cultivars. All commercial hybrids and cultivars were highly susceptible. Accessions of *L. hirsutum*, *L. hirsutum* f. *glabratum* and *L. pimpinellifolium* showed a wide range of reactions. Those of *L. peruvianum*, LA 385 of *L. peruvianum* f. *humifusum* exhibited very high levels of resistance indicating their potential use in local breeding programs. In contrast to earlier findings, back indexing showed that all symptomless genotypes in this investigation were carriers of the TYLCV.

Key words *Lycopersicon* - tomato - gene pool - breeding - TYLCV resistance