Breeding of flue-cured tobacco for resistance to Tobacco mosaic virus, Cucumber mosaic virus and Potato virus Y

Shahadati-Moghaddam, Z.¹, Hosseini, A.² and Bagherian, A.¹
1. Biotechnology department of Tirtash Research and Education Center
2. Plant protection department of Tirtash Research and Education Center

Abstract
The viral disease loss quantity and quality of crops worldwide. TMV, CMV and PVY damages is considerable in tobacco. The most important way to deal with this disease is the use of resistance genetic resources. so in this study two crosses between Totem322 (comercial) × Manilla Geel (PVY resistant) and Coker298 (CMV resistant) × Coker 176 (TMV resistant) was performed in next year. F₁ generations were cultured in 5×8 m² plot and self-pollinated. Then F₂ seeds were obtained to culture in next year and to selection for viral resistance.

Key words: Virus; Multiplex resistance; Tobacco