

## Studies on comparative susceptibility of potato cultivars to three *Fusarium* species causing potato dry rot in Isfahan

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### ABSTRACT

*Fusarium* dry rot is one of the most important post harvest fungal diseases of potato tubers in the store. In 1996 the susceptibility of 16 potato cultivars were assessed to three *Fusarium* species causing dry rot in Isfahan. The cultivars were Oleva, Baraka, Cosima, Caesar, Korrigane, Erigo, Aida, Atlas, Melisa, Marijke, Tiva, Saturna, Desiree, Arian, Flova and Fergate. Means of infection index of potato cultivars to different *Fusarium* species had significant differences. These potato cultivars had the maximum and minimum susceptibility to *F. sambucinum* and *F. oxysporum* respectively. The resistance of these cultivars to *F. solani* and *F. oxysporum* was not independent. Therefore, if a cultivar susceptible to *F. solani* it is also susceptible to *F. oxysporum* and conversely. Saturna was found more tolerant to the three *Fusarium* species than the other cultivars.

**Key words:** Potato, *Fusarium*, Dryrot, Esfahan

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