



## RESEARCH PAPER

# Effect of oil cake extract and organic manure on wilt of chickpea (*Cicer areitinum* L.) caused by *Fusarium oxysporum* f. sp. *ciceri* in vitro

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**Abstract :** Studies were conducted to test the effect of oil cakes and organic manures on the growth of wilt pathogen under *in vitro* conditions. The extract of different oil cakes and organic manures were tested against *F. oxysporum* f. sp. *ciceri* by poisoned food techniques *in vitro*. Least growth of pathogen was recorded in extracts of *Neem* cake showing excellent inhibitory effect of 70.87 percent reduction over control. Next best in order of mustard cake (65.36%), linseed (62.99%), groundnut (53.36%) and least by other. Among the organic manures tested, vermi compost and FYM showed maximum growth inhibition of 35.95 and 30.62 percent over control, respectively.

**Key Words :** Chickpea, *Fusarium oxysporum* f. sp. *ciceri*, Wilt, Soil born fungi, Oil cakes, Organic manures

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