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Chemical and biological management of wilt and root rot of chickpea

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An experiment was conducted to study the efficacy of bioagents on wilt and root rot in chickpea at Seed Research and Technology Center, Rajendranagar, Hyderabad during rabi, 2011-13 using two varieties i.e., JG 11 and Annegiri. Wilt and root rot incidence was noticed in both varieties. Seed treatment with Tebuconazole @ 1 ml/kg seed was found superior in minimising the incidence of wilt on JG 11 (8.78%) and Annegiri (6.03%). Seed treatment with *Pseudomonas fluorescens* @ 10 g/kg seed + foliar spray of *Pseudomonas fluorescens* @ 6-10 g/l resulted in less wilt incidence recording 10.06 and 11.17 per cent in JG 11 and Annegiri respectively. Seed treatment with *Pseudomonas fluorescens* @ 10 g/kg seed was found effective in reducing root rot on JG 11 (24.58%) and Annegiri (24.50%). Seed treatment with Tebuconazole @ 1 ml/kg seed recorded maximum seed yield of 10.05 q/ha and 12.66 q/ha in JG 11 and Annegiri, respectively besides producing good quality seed with maximum germination and good seedling vigour.

Biography

K. Kanaka Durga is presently working as Senior Scientist (Pl. Br.), Seed Research and Technology Center, ANGR Agricultural University, Hyderabad. She joined as Scientist (Pl. Br.) in AICRP on Pulses at RARS, Lam during 1998 after completion of doctoral studies in the same University. Her work initially involved in development of pulse varieties (5) at RARS, Lam Suitable for Andhra Pradesh. Presently, she is involved in Seed Research of different crops particularly development of DUS testing guidelines in horse gram and developed seed testing strategies in various crops. Also she is actively involved in guiding P.G. students and so far she has guided three students. And she has 22 research publications as on date.

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