

Variability in Resistance of *Spodoptera litura* (Fab.) to Different Insecticides in Groundnut

E Chandrayudu, T Murali Krishna, M John Sudheer, P Sudhakar and K Vemana
Department of Entomology, S V Agricultural College, Tirupati-517502 Andhra Pradesh

ABSTRACT

A study was conducted to determine the relative toxicity of different insecticides through bioassay at Department of Entomology, S.V. Agricultural College, Tirupati. Highest levels of resistance to conventional insecticides (lambda cyhalothrin, cypermethrin, quinalphos, chlorpyrifos and acephate) was found in third instar larvae of *Spodoptera litura* Guntur strain (19.99 to 39.45 folds) followed by Karimnagar (17.54 to 34.87folds) and Kurnool (15.36 to 27.96 folds) strains. Whereas Anantapuramu (3.64 to 11.63 folds), Kadapa (4.83 to 13.53 folds), Chittoor (11.91 to 18.63 folds), Nellore (13.48 to 18.39 folds), Mahaboobnagar (13.16 to 25.06 folds) and Warangal (3.63 to 13.08 folds) strains recorded moderately high level of resistance compared to baseline susceptible population.

Key words: Groundnut, Resistance to insecticides, *Spodoptera litura*.