

RESEARCH ARTICLE

Induced resistance in pigeonpea, *Cajanus cajan* by organic manures against pod fly and pod bugs

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ABSTRACT

Field experiment was conducted at College of Agriculture, Navile, Shimoga during *Kharif*, 2010, to assess the influence of various organic manures in the incidence of pod bugs and tur pod fly on pigeonpea. Application of poultry manure (@ 0.425 t/ha) + neem cake (@ 0.25 t/ha), followed by poultry manure alone (@ 0.85 t/ha) and neem cake alone (@0.5 t/ha) recorded reduced incidence of pod bugs against NPK applied plots. Similarly pod fly incidence was lowest in neem cake (@ 0.5 t/ha) treated plots, followed by vermicompost among organic treatments. The organic manures comparatively increased the total phenols in green pods and recorded lower protein, reducing and total sugars, whereas straight fertilizer received plots recorded *vice versa*. The pod flies and pod bugs incidences were significantly negative correlated with phenols, whereas significantly positive correlated with protein and non-significant positive association with reducing sugars and total sugars. The organic manures induced the phenol production in pods and thus induced resistance.

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