

RESEARCH ARTICLE

Effect of bio-pesticides and fungicides on tikka disease of groundnut (*Arachis hypogaea* L.)

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ABSTRACT

A field experiment was conducted during *Kharif* 2011 at Central Research Farm, SHIATS, Allahabad, Uttar Pradesh under rainfed condition to study the relative efficacy of bio-pesticides of different Neem products (leaf extracts @ 2.5 and 5.0 %, seed kernel extract @ 5%, oil @ 1%) and two fungicides (Ergon 50 SC @ 0.1% and Bavistin 50 WP @ 0.1%) to control *Cercospora* leaf spot (Tikka disease) of groundnut caused by *Cercospora arachidicola* and *Cercosporidium personata*. All the bio-pesticides and fungicides were significantly superior in controlling Tikka disease of groundnut over check. The efficiency of bio-pesticides and fungicides to control Tikka disease was in order of Ergon 50 SC @ 0.1% > Bavistin 50 WP @ 0.1% > Neem leaf extract @ 5% > Neem seed kernel extract @ 5% > Neem leaf extract @ 2.5 % > Neem oil @ 1%.

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