



TOXIC AND RESIDUAL ACTIVITIES OF SELECTED INSECTICIDES AND NEEM OIL AGAINST COTTON MEALYBUG, *PHENACOCOCCUS SOLENOPSIS* TINSLEY (STERNORRHYNCHA: PSEUDOCOCCIDAE) UNDER LABORATORY AND FIELD CONDITIONS

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ABSTRACT

Laboratory and field studies were carried out during Kharif 2009-10 and 2010-11 to evaluate the efficacy of Commando (97% DF), Confidor (20% SL), Lannate (40% SP), Actara (25 WG) at field recommended doses and neem oil at 1.5 and 2.0% concentrations against cotton mealybug, *Phenacoccus solenopsis* on cotton. Under laboratory environment Commando at recommended dose resulted into 95.2% mortality of the 2nd instar nymphs of *P. solenopsis* 72 hours after exposure period. Commando, under laboratory and field conditions, was found not only more toxic but also persisted longer in its efficacy than the rest of the trialed insecticides. Under field conditions, Commando caused 80.6% mortality of the mealybug that was significantly higher than that caused by Confidor (73.29%), Lannate (70.93%), Actara (74.38%) and neem oil (@ 1.5% (40.48%) and 2.0% (52.97%) concentration. Neem oil at both concentrations was less toxic than the rest of the synthetic insecticides; however, it significantly reduced the population of mealybug and remained effective up to more than 72 hours at both concentrations.

Keywords: Cotton mealybug, insecticides, neem oil, cotton, efficacy

INTRODUCTION

Cotton, (*Gossypium hirsutum* L.) plays a pivotal position in the economic development of many countries including Pakistan in terms of source of foreign exchange and employment. Cotton crop is attacked by a variety of insect pests from seedling stage to harvest. About 1326 species of insect pests and mites have been reported to attack cotton crop at various stages of crop growth around the world (Hargreaves, 1948; Manjunath, 2004). However, this crop is attacked by 145 species of insect and mite pests in Pakistan (Husque, 1994). Yield losses due to sucking insect pests are estimated around 4.6%, while chewing pests cause 19.21% loss in the yield of seed cotton (Satpute *et al.*, 1998). Apart from these, recent outbreak of mealybug in Pakistan has caused 14 percent loss to cotton crop (Anonymous, 2005). Cotton mealybug, *Phenacoccus solenopsis* Tinsley (Sternorrhyncha: Pseudococcidae) is a highly polyphagous pest of more than 52 plant families (Arif *et al.*, 2009). It was first recorded in 2005 and since then it has become a serious threat to successful cotton cultivation in all the cotton growing countries of Asia (Ben-Dov, 2004; Wang *et al.*,

2010). It not only causes direct damage to the crop by sucking cell sap from stems, branches, tender shoots, leaves and fruiting parts but also encourages the development of black sooty mould leading to significant reduction in yield. The infected plants have fewer, deformed and smaller bolls. The plants become stunted and in severe cases may die resulting in drastic yield losses. In Pakistan, a survey of cotton growing areas of Punjab showed 28.2% area having mealybug infestation above the threshold level that required control (Anonymous, 2008). The estimated yield losses in cotton due to mealybug were around 12% in 2006 and almost 40% in 2007 in the Punjab province (Kakakhel, 2007).

In recent years, interest is developing in an integrated pest management (IPM) strategy for the control of pest insects. In Pakistan, farmers mainly rely on synthetic insecticides for the management of mealybug but the control of mealybug using foliar insecticides is difficult due to mealy secretion which covers the bodies of adult females. However, the crawler stage is the most vulnerable to these chemicals. Various insecticides, like pro-fenophos, triazophos, carbaryl, thiodicarb, buprofezin and imidacloprid etc. have been recommended by various scientists for the management of

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McGraw-Hill Microcomputing Labs Timothy J O'Leary, Timothy J. O'Leary, B. Williams, Linda I. O'Leary, 1990

Gardeners' Chronicle, 1923 *The Gardeners' Chronicle*, 1923

Molecular Dynamics at the Immunological Synapse Pedro Roda-Navarro, Andrés Alcover, Vincenzo Di Bartolo, 2017-03-21 The immunological synapse IS is a specialised cell cell adhesion that mediates antigen acquisition and regulates the activation of lymphocytes Initial studies of the IS showed a structure composed of stable supra molecular activation clusters SMAC organised during the interaction of helper T lymphocytes with B lymphocytes working as antigen presenting cells A central SMAC of coalesced T cell receptors TCRs and a peripheral SMAC for cell cell adhesion were observed IS with similar structure was later described during antigen acquisition by B cells and during the interaction of NK cells with target and healthy cells More recent research developed with microscopy systems that improve the spatial and temporal resolution has showed the complex molecular dynamics at the IS that governs lymphocyte activation Currently the IS is seen as a three dimensional structure where signalling networks for lymphocyte activation and endosomal and cytoskeleton machinery are polarised A view has emerged in which dynamic microclusters of signalling complexes are composed of molecular components attached to the plasma membrane and other components conveyed on sub synaptic vesicles transported to the membrane by cytoskeletal fibers and motor proteins Much information is nonetheless missing about how the dynamics of the endosomal compartment the cytoskeleton and signalling complexes are reciprocally regulated to achieve the function of lymphocytes Experimental evidence also suggests that the environment surrounding lymphocytes exposed to different antigenic challenge regulates IS assembly and functional output making an even more complex scenario still far from being completely understood Also although some signalling molecular components for lymphocyte activation have been identified and thoroughly studied the function of other molecules has not been yet uncovered or deeply characterised This research topic aims to provide the reader with the latest information about the molecular dynamics governing lymphocyte activation These molecular dynamics dictate cell decisions Thus we expect that understanding them will provide new avenues for cell manipulation in therapies to treat different immune related pathologies

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