Research & Reviews: Journal of Zoological Sciences

Insecticides-Effects on Crop

Deepika HC*, Anusha S2, Chandra sekhar3

1Department of pharmaceutics, Malla Reddy institute of Pharmaceutical sciences, Secunderabad, India
2Department of pharmaceutics, Vishnu Institute of Pharmaceutical Education & Research, Narsapur, Medak, India
3CMR College of pharmacy, Hyderabad, Telangana, India

Commentary Article

Received: 28/04/2015
Revised: 30/04/2015
Accepted: 02/05/2015

*For Correspondence
Deepika HC*, M. Pharmacy, Department of pharmaceutics, Malla Reddy Institute of pharmaceutical sciences, Maisammaguda, Secunderabad, Telangana 500014; Tel: 040 6463 4235; E-mail: harichandra.deepika324@gmail.com

Keywords: Pesticides, Insecticides, Plant Growth regulators

Introduction

The perpetually expanding human populace and resulting overall interest for food has asked for a superior assurance of agricultural crops from the infestation by distinctive gatherings of bugs. This launched the intercession of advanced methods for the improvement of novel techniques of yield assurance.[1]

With a specific end goal to ensure the sustenance supply and battle against insects resistance, the disclosure of eco-friendly and powerful insecticides with new method of activity is exceptionally basic in agrochemical exploration.[2-5] Misfortunes because of insect infestation are the most genuine risk in crop storage, especially in developing countries, where poor sanitation and improper storage energize insect assault. It was assessed that more than 20,000 types of field and storage vermin wreck roughly 1/3rd of the world's nourishment generation, esteemed more than US$ 100 billion every year, among which the most astounding misfortunes (43% of potential creation) happen in creating Asian and African nations. In Pakistan it has been evaluated that 5 to 7% loss of crop happens because of poor storage conditions.[6-10]

The worldwide utilization of pesticides in agriculture brings about deposits of insecticides being generally found in numerous situations, from the editing fields and plantations to waterways, estuaries and seas, and even urban situations.[11-13] Synthetic insecticides (SI) are broadly utilized for the control of M. domestica. Drawn out and persistent utilization of SI reasons word related danger, harm to environment and advancement of resistance in insects.[14]

Effects on various crops

Agaricus bisporus are most business delivering mushroom which is utilized as exceedingly nutritional food. Numerous sort of nuisance can harm mushroom which can influence the nutritional estimation of the mushroom. Acephate and Cartap hydrochloride utilized as business insect spray on consumable mushroom.[15-18]

Cotton plant is treated with insecticides particularly with pyrethroids, aphids and mites. The splash can be evaluated as positive results that the use of utilized insecticides expanded the amount of mixes having antifeedant property. Not expanded levels of diminishing sugars in treated specimens might likewise keep the episodes of aphids in fields treated with these composite mixtures.[19-24]
Bioinsecticides (Dipel DF, Protecto and Bioranza) and insect (IGRs) (chlorfluazuron and pyriproxyfen) show good effect in cotton field.[25]

The insecticidal activity of natural concentrates from root supply of Alocasia indica (Linn.) against rice, Sitophilus oryzae.[26]

Plant materials have been utilized for pest control for a considerable length of time yet as of late, conservation of grains items away has depended upon synthetic insecticides to control put away grain.[27]

Proper management of these pests serves to avoid crop losses and provide more economic back up for the farmers. India has vast pesticide market and about 3% of the total pesticides used in the world are utilized in India. Realizing the adverse effect of synthetic pesticides, there is a global awareness to employ alternate strategies, particularly with bio pesticides for the management of pest complexes in agro ecosystem.[29-30]

Acknowledgment

This content of the article is scrutinized and approved by M. Murali and written by Deepika HC.

REFERENCES


