

MASS SPECTROMETRY, PROTEOMICS AND POLYMER CHEMISTRY

May 20-21, 2019 | Rome, Italy

Mamdouh I Nassar et al., J Chem Tech App 2019, Volume 3

ASSESSMENT OF NATURAL BIORATIONAL EXTRACTS FROM *IPOMEA CARNEA* (JACQ.) AGAINST *SPODOPTERA LITTORALIS* (BOISD.)

Mamdouh I Nassar, Mohamed T Taha, Hala M I Mead and Mohamed G M Salama
Cairo University, Egypt

The cotton leaf worm, *Spodoptera littoralis* (Boisd.) is a highly polyphagous insect that causes serious damages to more than 112 plant species belonging to 44 different families in Africa. The toxic effect of *Ipomea carnea* extracts against fourth instar larvae of *Spodoptera littoralis* was evaluated under laboratory conditions. Based on LC50 and LC90 values, *Ipomea carnea* extracts were recorded (24.622 and 164.947 ppm respectively) for the most potent one (acetonic extract) followed by hexane (232.677 and 15377.590 ppm respectively) and finally the alcoholic extract which doesn't reveal any toxicity until five days post treatment. Ultra structure sections were made for the epithelial cell of midgut and muscles for 4th instars larvae treated with LC25 and LC50 of acetonic extract of *I. carnea* which caused vacuolization in the cytoplasm, degeneration of organelles and destruction of the plasma membrane according to the ultrastructure studies on *S. littoralis* larvae.

BIOGRAPHY

Mamdouh I Nassar is a Professor of Bio-active Natural products, Bioinformatics, Biological and Toxicological Sciences, Faculty of Science, Cairo University, Egypt. He is the Dean Faculty of Science, Cairo University; Vice Dean of Postgraduate studies and Research; Visitor exchange of International Program member staff, University of Maryland College Park, USA and Environmental System Service (ESS), Beltsville Maryland USA. He did his PhD Degree (Channel system) in University of Maryland College Park, USA and Cairo University, Egypt. He is the author of 10 Biological Scientific books published at German Share House Lambert 2015, Introduction to invertebrates AlHandasa publisher, Jazan University, Book College of Entomology Alfagala publisher and Book of General Biology. Currently he is Editorial Board and evaluator of many specialty scientific Journals in USA, India, South Africa, Bulgaria, Saudi Arabia and Iraq.

mmnassar2002@yahoo.com



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