

Larvicidal Activity of Some Botanical Extracts, Commercial Insecticides and their Binary Mixtures Against the Housefly, *Musca domestica* L.

S. A. Mansour^{1,*}, R. F.A. Bakr², R. I. Mohamed³ and N.M. Hasanien³

¹Environmental Toxicology Research Unit (ETRU), Department of Pesticide Chemistry, National Research Centre, Dokki, Cairo, Egypt

²Department of Entomology, Faculty of Science, Ain Shams University, Cairo, Egypt

³Department of Zoology, Faculty of Science, Sohag University, Egypt

Abstract: Following preliminary screening of 13 ethanolic plant extracts, belonging to 10 different families, a total of 11 extracts were subjected to detailed toxicity evaluation against the larval stage of the housefly, *Musca domestica* L. The larvicidal LC₅₀ values were < 100 ppm for *Piper nigrum* (50.1 ppm), *Azadirachta indica* (76.9 ppm), *Croton tigliarius* (77.6 ppm) and *Cucurbita inycana* (96.8 ppm); representing the highest potent extracts among the bioassayed candidates. *Panicum granatum* extract exhibited the lowest toxicity (213.9 ppm). In comparison, commercial insecticides showed superior larvicidal toxicity; according to the following LC₅₀ values: 0.029, 0.03, 0.61 and 0.64 ppm for deltamethrin, methomyl, chlorpyrifos and flufenoxuron, respectively. Combining botanical extracts with insecticides, at equitoxic dosages (i.e. LC₅₀ values), induced potentiating effects for a 44 bioassayed mixtures against the housefly larvae. Moreover, mixing the insecticides at LC₅₀ (a concentration level causing no observed mortality) with the LC₅₀ of each of the plant extracts have resulted in 44 paired co-combinations. Mostly, the "synergistic factor; S.F." ranged between 1.6 - 1.9; giving rise to high synergistic effects. Specifically, the synergistic effect was much pronounced for mixtures of the insecticide deltamethrin with different botanical extracts. Most of the tested botanicals induced different forms of developmental effects after exposure of 3rd larval instars to sublethal concentrations (LC₂₅ ppm). Larvae treated with *A. indica*, *Citrus aurantifolia*, *Eucalyptus globulus* (leaves or fruits), *P. granatum*, *Sida spaldii*, *Sonchus oleraceus*, *Zea mays*, as well as the insecticides chlorpyrifos, deltamethrin and methomyl failed to develop into adult stages. Morphologically, there were different forms of pupal and adult abnormalities, where the treatments of *P. granatum* and *S. oleraceus* caused abnormal pupal size in addition to pupal-adult intermediate. In the revealed *Musca domestica* adults, the effects were seen as one-winged insects, small size, compressed body and abdomen elongation. Such deformations were attributed to treatments of *C. inycana*, *C. tigliarius*, *Piper nigrum* and the IGR flufenoxuron. The overall results of the present investigation reveal the broad-spectrum toxic properties of the tested plant extracts against *Musca domestica* larvae; which may encourage further researches to housefly control in tropics using indigenous plants.

Keywords: Housefly, Botanical bioicides, Insecticides, Toxicity, Joint action, Developmental effects.

INTRODUCTION

Musca domestica Linnaeus (Diptera: Muscidae), is a serious health threat to human beings and livestock by transmitting many infectious diseases [1]. It acts as important mechanical carriers of pathogenic bacteria, such as *Shigella* sp., *Vibrio cholerae*, *Escherichia coli*, *Staphylococcus aureus*, and *Salmonella* sp. [2]. However, the immature stages have several industrial and medical applications [2-6]. Such challenging situation requires a management strategy to interfere with the insect development in order to maintain adult stage population as lower as possible through controlling larval stage population. The high cost of chemical pesticides and the environmental hazards as a result of pesticide usage have encouraged scientists to seek less hazardous and

cheaper pesticide groups. Considerable efforts have been made to synthesize an alternative to overcome this problem. Botanical products have become more prominent in assessing current and future pest control alternatives [7]. Over the past two decades, surveys of plant families have discovered sources of new botanical insecticides, which could possibly meet some of this demand. For instance, the potential of neem products is being conducted internationally [1, 8] and there is a general trend these days to reduce the risk to human life [9]. Accordingly, botanical insecticides based on natural compounds from plants, are expected to be a possible alternative. They tend to have broad-spectrum activity, relative specificity in their mode of action, and easy to process and use. They also tend to be safe for animals and the environment [10].

Many plants have been reported about their potential insecticidal actions on different stages of *M. domestica* via crude extracts or extracted active compounds [11-15]. Some results also showed their effects on metamorphosis or emergence or fecundity or life span of house flies [12, 15-16].

*Address correspondence to this author at the Professor of Pesticides & Environmental Toxicology at National Research Centre, Dokki, Cairo, Egypt; Tel: (202) 33371211; Fax: (202) 33370931; E-mail: smansour@bcrnrcmail.com, smansour2@yahoo.com

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