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Effects of aqueous extracts of basil, *Ocimum basilicum* L., Sodom's apple, *Calotropis procera* Ait and Coriander *Coriandrum sativum* L. on leaf miner, Liriomyza spp., on okra crop

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Faiza E. E. Salah1, Elamin M. Elamin2, Elameen M. A. Eltoum1, Hayder Abdelgader2 and Dominique Bordat3 1 Dept. of Crop Protection, Faculty of Agricultural Sciences, University of Gezira, Wad Medani, Sudan. P.O. Box 20 2 Agricultural Research Corporation, Wad Medani, Sudan. 3 CIRAD, Montpellier, France. Email: Faizaruba@yahoo Abstract: The Hymenopterous parasitoids, Hemiptarsemus varicornis (Girault) and Opius dissitus (Muesebeck) are associated with the leaf miner, Liriomyza spp., populations in Central Sudan. The effects of Liriomyza trifolii (Burgess) and Liriomyza sativae (Blanchard) reared on common bean, Phaseolus vulgaris, on the development and efficiency of their two parasitoids were studied at constant conditions of temperature, relative humidity and photoperiod. No significant differences were found between parasitism percentage of H. varicornis or O. dissitus on L. trifolii or L. sativae. However, significant differences were found with respect to adult (male and female) life span as well as the number of adult parasitoids emerged of H. varicornis and O. dissitus. The life span of H. varicornis was shorter than that of O. dissitus, but more adults of the later emerged from the pupae than those of H. varicornis which might have accounted for their almost equal parasitism percentages. Also, no significant differences were recorded with regard to the development of H. varicornis on L. sativae reared on four of its host plants. However, parasitism percentage was significantly higher on gourd (Cucurbita moschata) followed by zucchini (cucurbita pepo), haricot bean (Phaseolus vulgaris) and tomato (Lycopersicon esulentium), respectively.

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