



Biological and Morphological Changes in *Culex Pipiens* after Rose Water Exposure

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ABSTRACT Rose water is a well-known culinary supply; available in many homes but its insecticidal effect has not been reviled. This study tests the potentiality of rose water insecticidal effect on *Culex pipiens* adults and larvae. Chromatographic characterization of tested rose oil was mainly nerol (20.88%), Citronellol (18.05%) and Geraniol (10.42%). The performed insecticidal bioassay on *Culex pipiens* adults and larvae showed a dose-dependent relationship with LC₅₀ of 0.732 percent after 24h and 0.119 percent after 48h consequently. Prolongation of both larval and pupal duration in addition to the decrease in both pupation and adult emergence percentages were reported. Spots of pigmentation of the malformed stages of development and pharate pupae were recorded and photographed. Rose water showed a potential insecticidal property that deserves to be highlighted.