

## عنوان مقاله:

Defense reactions of the grape aphid, *Aphis illinoisensis* (Hemiptera: Aphididae) to parasitoid species *Lysiphlebus testaceipes* (Hymenoptera: Braconidae) and *Aphelinus albipodus* (Hymenoptera: Aphelinidae)

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## خلاصه مقاله:

Developmental periods of the grapevine aphid, *Aphis illinoisensis* Shimer (Hemiptera: Aphididae) on the grape, *Vitis vinifera* L., and its two parasitoid species, *Lysiphlebus testaceipes* (Cresson) (exotic) (Hymenoptera: Braconidae: Aphidiinae) and *Aphelinus albipodus* Hayat and Fatima (indigenous) (Hymenoptera: Aphelinidae) were studied at two constant temperatures ( $20^{\circ}\text{C}$  and  $25 \pm 2^{\circ}\text{C}$ ),  $70 \pm 5\%$  R.H. and a photoperiod of 14 L: 10 D. The life cycle of *A. illinoisensis* attained 14.7 and 7.1 days at  $20^{\circ}\text{C}$  and  $25^{\circ}\text{C}$ , respectively. The developmental period was shorter as temperature increased. Developmental time from egg to adult of *L. testaceipes* was shorter than that of *A. albipodus* Hayat and Fatima at both  $20^{\circ}\text{C}$  and  $25^{\circ}\text{C}$ . Parasitized aphids were dissected daily to determine the percentage of parasitism, number of encapsulated eggs of *L. testaceipes* and the number of dead larvae of *A. albipodus*. The percentage of parasitism of aphid by *L. testaceipes* was 26% and 12.5% of parasitoid eggs were encapsulated, while 52% of aphids were parasitized by *A. albipodus* of which 32% was dead larvae. Therefore, *A. illinoisensis* has a mechanism for defense against parasitoids and it should be noted that this aphid is not a suitable host for rearing either of the two tested aphid parasitoid species in the laboratory.

## کلمات کلیدی:

*Aphis illinoisensis*, *Aphelinus albipodus*, *Lysiphlebus testaceipes*, developmental period, Defense

## لینک ثابت مقاله در پایگاه سیویلیکا:

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