



## Biological and ecological studies on the oligophagous ladybird *Serangium parcesetosum* SICARD (Coleoptera: Coccinellidae) as an efficient predator of the cotton whitefly *Bemisia tabaci* (GENN.) (Homoptera: Aleyrodidae)

By Firas Al-Zyoud

Cuvillier Verlag Mrz 2005, 2005. Taschenbuch. Book Condition: Neu. 207x147x7 mm. Neuware - The current research aimed to study the biology of the little known, in the literature, whiteflies predator, *Serangium parcesetosum* SICARD (Col., Coccinellidae) at low and high temperatures for the biological control of *Bemisia tabaci* (GENN.) (Hom., Aleyrodidae) in the laboratory. The prey consumption as well as the prey consumption preferences by *S. parcesetosum* was also determined. Further experiments were devoted to record the egg-laying behavior of the predator. Moreover, experiments were conducted to investigate the biology and prey consumption by this ladybird with the greenhouse whitefly, *Trialeurodes vaporariorum* WESTWOOD (Hom., Aleyrodidae) as prey. Additionally, the biology of *B. tabaci* as a main prey was stated at different temperatures and plant species. Finally, greenhouse experiments were set up to evaluate the efficiency of *S. parcesetosum* as a biological control agent of *B. tabaci*. In the laboratory, the results showed that *B. tabaci* has completed its development, survived and reproduced at all temperatures and plant species tested. The predator, *S. parcesetosum* was able to successfully develop, survive and

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