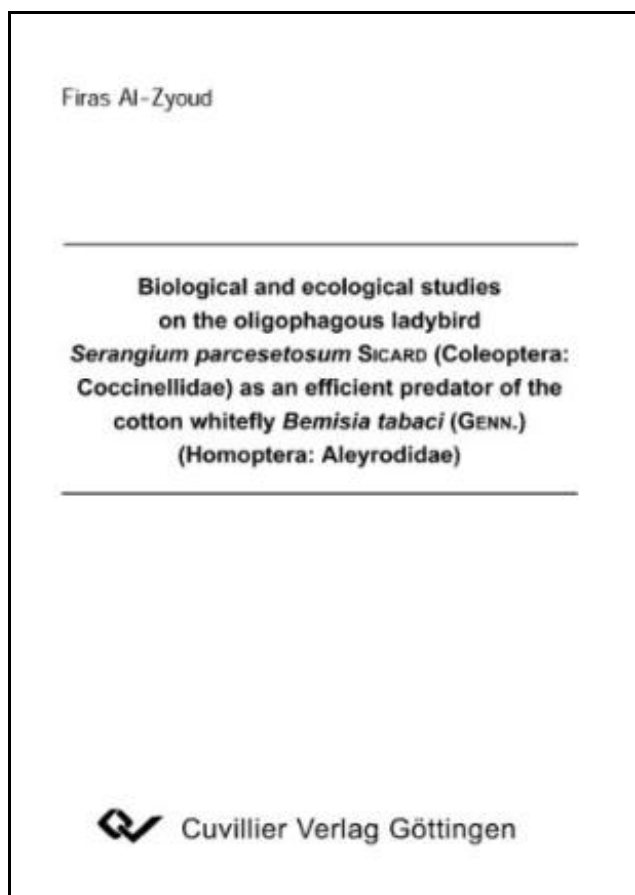


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Cuvillier Verlag Mrz 2005, 2005. Taschenbuch. Book Condition: Neu. 207x147x7 mm. Neuware - The current research aimed to study the biology of the little known, in the literature, whiteflies predator, Serangium parcesetosum SICARD (Col., Coccinellidae) 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 reproduce when fed on B. tabaci at 18±1°C and 30±1°C on cotton and cucumber. A wide range of crop and ornamental host plant species of B. tabaci was found to be suitable for the predator's oviposition. S. parcesetosum larval instars and adults were able to prey upon B. tabaci nymphs and puparia at both studied temperatures. The predatory adults had adapted smoothly to fluctuating prey availability and could live for a considerable period of time on 10% honey emulsion. The ladybird showed a preference for B. tabaci puparia over nymphs and eggs as well as preferred B. tabaci and T. vaporariorum to the non-whitefly prey species offered. It tended to avoid parasitized puparia of B. tabaci by the parasitoid, Encarsia formosa...

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