

APPENDIX-I

PUBLISHED RESEARCH PAPERS

*Abstract*

A NEW SPECIES OF THE GENUS APANTELES CAMERON  
FROM WESTERN MAHARASHTRA, INDIA

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ABSTRACT

A new species, Apanteles nyctanthes (Braconidae : Hymenoptera) was described which was reared on Moriga caterpillars on Nyctanthes arbor tristis.

Workshop, on Bio-control. A Natural Method of Integrated Pest Management, Pravaranagar, 1995.

**A-P-7 A NEW SPECIES OF THE GENUS CAMPOPLEX GRAVENHORST  
(HYMENOPTERA: ICHENOMONIDAE)**

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A new species *Campoplex bhupalii* is described from Western Maharashtra, India. *C. bhupalii* is a parasitoid of the larvae of mustard saw fly, *Athalia proxima* (Klug.) (Hymenoptera; Tenthredinidae) a pest of mustard, *Brassica camrestris*. Female 10.32mm long excluding ovipositor, fore wing 6.4mm long, ovipositor, .04 mm long and hairy, propodeum with middle carina, half hind femur black. This species runs close to *Campoplex burmensis* (Gupta and Maheshwary 1977) in its characters of propodeum, ovipositor, wings, legs and manibles and differs in its characters of notched eyes, strong longitudinal carina, half hind femur black, yellow apical region and propodeum with middle carina.

A COMARATIVE STUDY OF HAEMOCYTES OF HELIOTHIS  
ARMIGERA (HUBN.) (LEPIDOPTERA) AND ITS PARASITOID,  
CAMPOLETIS CHLORIDEAE UCHIDA (HYMENOPTERA)

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ABSTRACT

Histological preparations of Grampod borer, Heliothis armigera (Hubn.) (larvae) and its parasitoid, Campoletis chlorideae Uchida (adults) were studied in this paper. In both, proleucocytes, plasmocytes, sperule cells and oenocytes were observed. In H. armigera proleucocytes were in large number than C.chlorideae. The proleucocytes were small, oval with smooth surface and abundant. The plasmocytes were marked by cytoplasmic processes. They were more polymorphic in H.armigera than C.chlorideae. The sperules were small while oeuocytes large as compared to the proleucocytes.

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