

**TWO NEW SPECIES OF ANAGYRUS HOWARD (ENCYRTIDAE : TETRACNEMINAE)  
FROM INDIA**

ANIS FATIMA

*Department of Zoology, Aligarh Muslim University, Aligarh-202001.*

**ABSTRACT :** Two new species, viz., *Anagyrus agarwali* and *A. ishaqi* are described in detail with illustrations. Types are deposited in Zoological Museum, Aligarh Muslim University, Aligarh, India.

**KEY WORDS :** *Anagyrus*, Encyrtidae, Pseudococcid, Tetracnemini and Tetracneminae.

Members of the subfamily Tetracneminae constitute an economically important group of microhymenopterous parasitoids of coccoids. They belong to the tribe Tetracnemini and have tenth tergum with paratergites and fused condition of third valvulae with second valvifers.

*Anagyrus agarwali*\* sp. nov.  
(Figs. A & B)

**Female :** Body yellowish brown except head dark brown, wider than long in facial view, eyes black, frontovertex wider than eye width, ocelli brown, arranged in equilateral triangle. Antennae (fig. A) inserted near oral margin, a ring at apical part and base of scape, apical half of pedicel and second funicle segment pale yellow; club and rest of the funicle segment except first brown; latter, basal half of pedicel and major part of scape blackish-brown; scape about twice and a half times as long as wide; pedicel slightly more than twice as long as wide, slightly shorter than first funicle segment; funicle segments 1-6 longer than wide; first two funicle segments are subequal in length; club 3-segmented, slightly longer than thrice as long as wide, as long as preceding two funicle segments together.

Thorax with axillae meeting medially. Fore wings hyaline, slightly shorter than thrice as long as wide; costal cell long and narrow; marginal vein (fig. B) short, shorter than stigmal vein, latter shorter than postmarginal and marginal vein together. Legs yellowish brown; mid tibial spur slightly shorter than basitarsus.

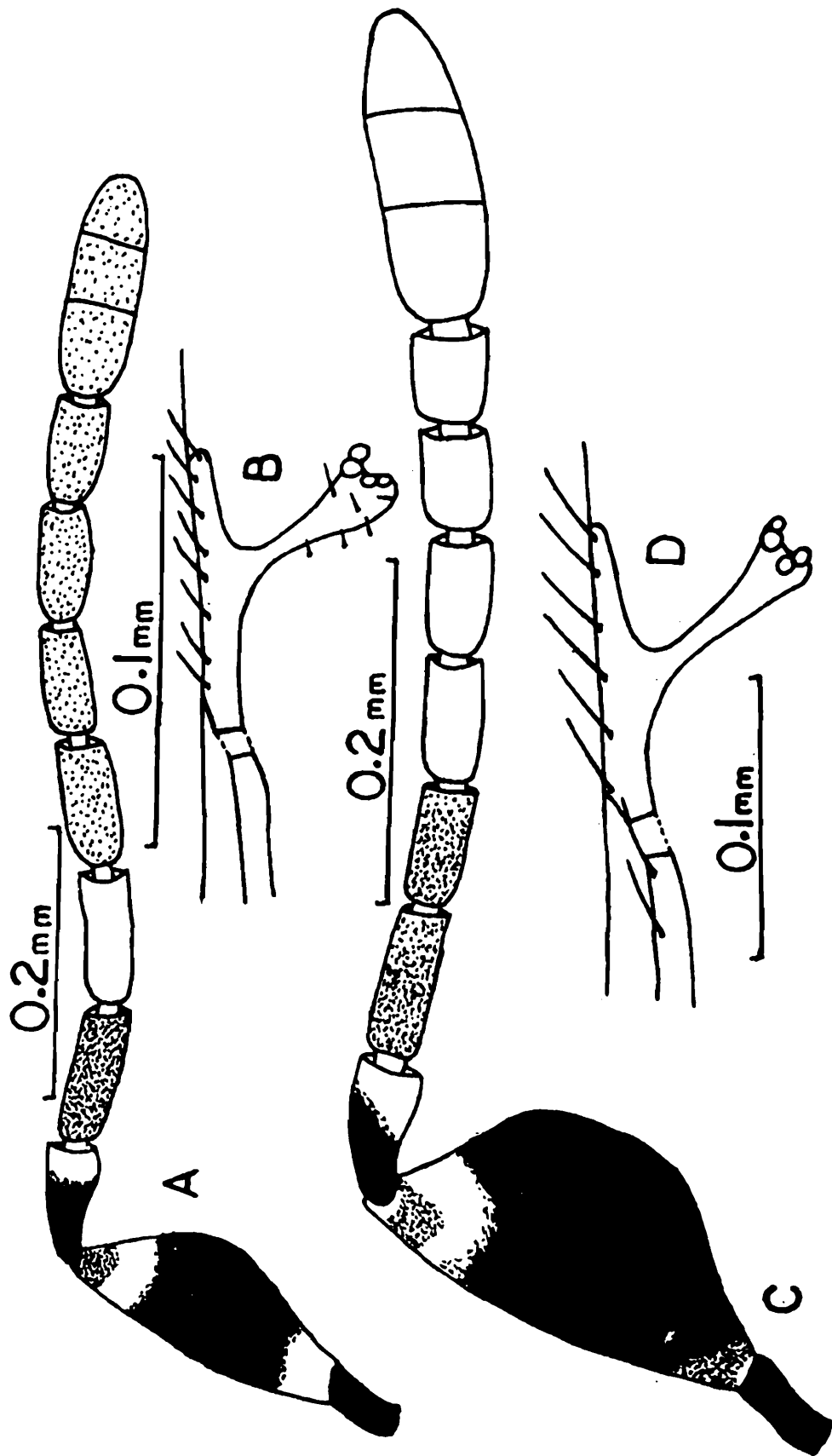
Abdomen longer than thorax, paratergites present; ovipositor exerted, arising from base of the abdomen.

*Body length :* 1.6 mm (Including ovipositor)

Holotype ♀, India : Aligarh, ex pseudococcid on wild plant, 09 VI. 1996 (Anis Fatima)

---

\* Named after late Prof. M. M. Agarwal, Department of Zoology, A.M.U. Aligarh.



**Figs. A & B** *Anagyrus agarwali* sp. n. ♀  
A. Antenna ; B. Part of fore wing venation.

**Figs. C & D.** *Anagyrus ishaqi* sp. n. ♀  
C. Antenna ; D. Part of fore wing venation

*Comments* : The new species *A. agarwali* is closely related to *A. indicus* Shafee, *et al.* in having scape two and a half times as long as wide; club as long as preceding two funicle segments taken together; marginal vein four times as long as wide.

***Anagyrus ishaqi* sp. nov.**  
(Figs. C & D)

*Female* : Body brown. Head hypognathus, wider than long in facial view; eyes dark with transparent setae; frontovertex narrow than eye width; malar space shorter than eye width; ocelli brown arranged in acute angle triangle, lateral ocellus separated from inner margin of eye by its own diameter. Antennae (fig. C) inserted near oral margin, major part of scape, basal half of pedicel and basal two-funicle segments blackish brown to dark brown, rest of the antenna pale yellow; scape much flattened, twice as long as wide; pedicel more than twice as long as wide, as long as first funicle segment, latter segment longest, thrice as long as wide, second and third subequal in length, sixth segment shortest; club 3-segmented, thrice as long as wide, as long as preceding three funicle segments together.

Thorax slightly longer than abdomen. Fore wings hyaline, twice and a half times as long as wide; costal cell long; marginal vein (fig. D) longer than post marginal and shorter than stigmal vein, latter shorter than post-marginal and marginal veins together; marginal fringe short, spaced by their one-third of length. Legs yellowish brown.

Abdomen with paratergites; ovipositor slightly exerted, arising from base of the abdomen.

*Body length* : 1.13 mm (Including ovipositor).

Holotype ♀ India : Aligarh ex. pseudococcid on wild plant 31.X.1996 (Musharraf Ali Khan).

Paratype 1 ♀ (same data as above)

Allotype 1 ♂ (same data as above).

*Comments* : The new sp. *Anagyrus ishaqi* runs well in the key given by Agarwal (1965 : 43) and Shafee *et al.* (1975 : 09) and is closely related to *A. flavidus* Agarwal, it can be separated in having first funicle segment thrice as long as wide, club thrice as long as wide, as long as preceding three funicle segments together; postmarginal vein slightly shorter than marginal vein, shorter than stigmal vein.

### ACKNOWLEDGEMENTS

The author is thankful to the Director General, Council of scientific and Industrial Research, New Delhi, for providing financial assistance.

### REFERENCES

- Agarwal, M. M., 1965. Taxonomy of encyrtid parasites (Hymenoptera : Chalcidoidea) of Indian Coccoidea. *Acta Hymenopterologica*. 2 : 45.
- Shafee, S. A., Alam, S. M. and Agarwal, M. M. 1975. Taxonomic survey of encyrtid parasites (Hymenoptera : Encyrtidae) in India. *Alig. Musl. Univ. Publ. (Zool. Ser.) Indian Ins. Type*. 10 : 1-125.

