

## *Neoapolorryia* gen. n. of the family Tydeidae from Egypt (Acari: Tydeoidea)<sup>1)</sup>

MAHER E. EL-BAGOURY and FATEN M. MOMEN

(With 1 figure)

### A b s t r a c t

**Neoapolorryia aegyptica** gen. n., sp. n. are described and illustrated from Tahrir province region, in soil with roots of the tomato plant, **Lycopersicum esculentum** Mill.

### I n t r o d u c t i o n

During our survey of mites associated with the rizosphere of root plants, **Neoapolorryia** gen. n. was found in soil with roots of the Tomato plant, **Lycopersicum esculentum** Mill. According to André 1980, 1985 and El-Bagoury 1986, the genus **Neoapolorryia** proved to be a new one. In the present work, **Neoapolorryia** gen. n. is placed near the genus **Apolorryia** André, 1980 and distinguished in having genital organotaxy (0-6-4) opposed to (0-3-3) in **Apolorryia**. In the description, André's terminology (1980, 1981) is adopted.

### Genus **Neoapolorryia** gen. n.

Diagnosis: Prodorsum recurved, opisthosoma dorsal chaetotaxy: 9 (L2, h1 and h2 missing), genital organotaxy: (0-6-4); epimeral formulae: (3-1-4-2). Legs chaetotaxy: I (8-3-2-2-0) II (6-1-1-2-0) III (5-1-0-1-0) IV (5-1-0-1-0); eupathidia on tarsus I: (tc) and (P), solenidiotaxy: 2; femur IV undivided. Palp (6-1-2) +  $\omega$  with a double eupathidium at the tip of the tarsus.

Type-species: **Neoapolorryia aegyptiaca** sp. n.

### **Neoapolorryia aegyptiaca** sp. n.

(Figs 1A-E)

Female: Prodorsum recurved, body length 225  $\mu\text{m}$ , width 148,5  $\mu\text{m}$  (fig. 1A, B), gnathosoma partially hidden, movable chela 8,8  $\mu\text{m}$  shorter than the palp tarsus 15,4  $\mu\text{m}$ , palpus setal pattern: (6-1-2) +  $\omega$  (fig. 1E). Propodosoma with three reticulated areas separated by striations; P1 = 24,2  $\mu\text{m}$ , P2 = 20,9  $\mu\text{m}$  and S = 36,3  $\mu\text{m}$  located in the largest area, while P3 = 24,2  $\mu\text{m}$

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1) This work was carried out as parts of the project of biological control of root diseases by Mycorrhiza.

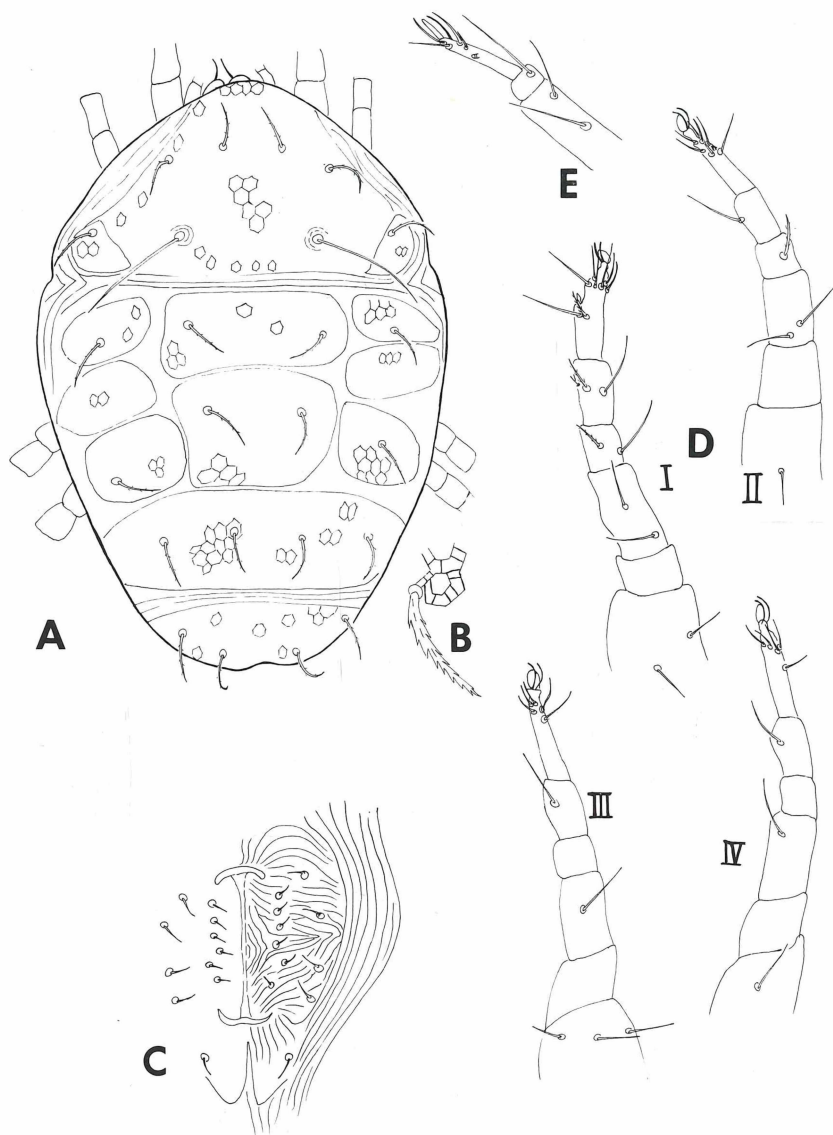


Fig. 1: *Neapolorrya aegyptiaca* gen. n., sp. n., female. (A) Body dorsum; (B) Shape of dorsal setae and reticulation; (C) Genital region; (D) Chaetotaxy of legs; (E) Palp.

in the small one. All dorsal body setae lanceolate and serrated, except S which is filiform. Opisthosoma: dorsal chaetotaxy: 9 (L2, h1 and h2 missing), (d1-d5) = 22  $\mu$ m, (L1, L4, L5) = 22  $\mu$ m, ten hexagonal reticulated areas separated by striations. Genital organotaxy: (0-6-4) (fig. 1C); Epimeral formula: (3-1-4-2); coxal organ. Leg chaetotaxy (fig. 1D): I (8-3-2-2-0) II (6-1-1-2-0) III (5-1-0-1-0) IV (5-1-0-1-0); Solenidiotaxy: 2; femur IV undivided.

Male: unknown.

#### M a t e r i a l e x a m i n e d

Holotype: Female collected from sandy soil with roots of the tomato plant, **Lycopersicum esculentum** Mill; January 15, 1988, Tahrir Province, Egypt. Paratypes: Eight females with the above same data, two females from sandy soil with roots of the egg plant, **Solanum melongena** L.; February 10, 1988, South Sinai Province, Egypt. Holotype and 1 paratype, deposited in Zoologisches Institut und Zoologisches Museum der Universität Hamburg, Bundesrepublik Deutschland, the remaining paratypes in the National Research Centre, Plant Protection Department, Cairo, Egypt.

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Address of the authors:

Dr. Maher E. El-Bagoury and Dr. Faten M. Momen, National Research Centre, Plant Protection Department, Dokki, Cairo, Egypt.

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Autor(en)/Author(s): Momen Faten M., El-Bagoury Maher E.

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