

A new tydeid mite, *Tydeus kattai* sp. n.,
from Egypt
(Acari, Tydeidae)

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(With 9 figures)

A b s t r a c t

A new tydeid mite, *Tydeus kattai*, found on mango leaves at Katta village (Giza Governorate, Egypt) is described and illustrated.

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

During our survey of mites associated with mango trees in Egypt we have found several species of the family Tydeidae. The paper deals with a new species of the genus *Tydeus*. The generic concept and terminology follow those of Andre (1980, 1981a, b).

D e s c r i p t i o n o f t h e s p e c i e s

Tydeus kattai sp. n.

(Figs 1-9)

DESCRIPTION OF ADULT FEMALE. Length of the body (excluding gnathosoma) 212-218 μm , width 103-109 μm .

Gnathosoma. In "normal" position it protrudes over the anterior edge of the aspidosoma (Fig. 4). Cheliceral stylets twice as long as palpal tarsus. Terminal eupathidium bidentate distally, whereas seta *d* forked at the end, seta *ba* distinctly developed and short. Measurements: stylets = 19 μm , palpal tarsus = 9 μm .

Idiosoma. Dorsal setae short and serrate, except the trichobothrium which is whip-like and smooth. Dorsal striae with small transverse lobes (Fig. 2). Setal measurements: p_1 - p_3 , d_1 - d_4 , and l_1 - l_5 all subequal in length (8 μm); setae d_5 and h_2 10 μm , ps 7 μm and s 37 μm long. There

are four pairs of aggenital and six pairs of genital setae (Fig. 9). Epimeral formula: 3-1-4-2.

Leg setal patterns (formula indicates setation from tarsus to trochanter, with solenidion in parentheses: Figs 5-8):

I: 8(1)-4-3-3-1	III: 5-2-1-2-1
II: 6(1)-2-2-3-0	IV: 5-2-1-1-0

Solenidion on tarsus I slender and longer than the width of tarsus I (= 10 μ m), solenidion on tarsus II short; seta *k* on tibia I forked (Fig. 5); empodial hooks present.

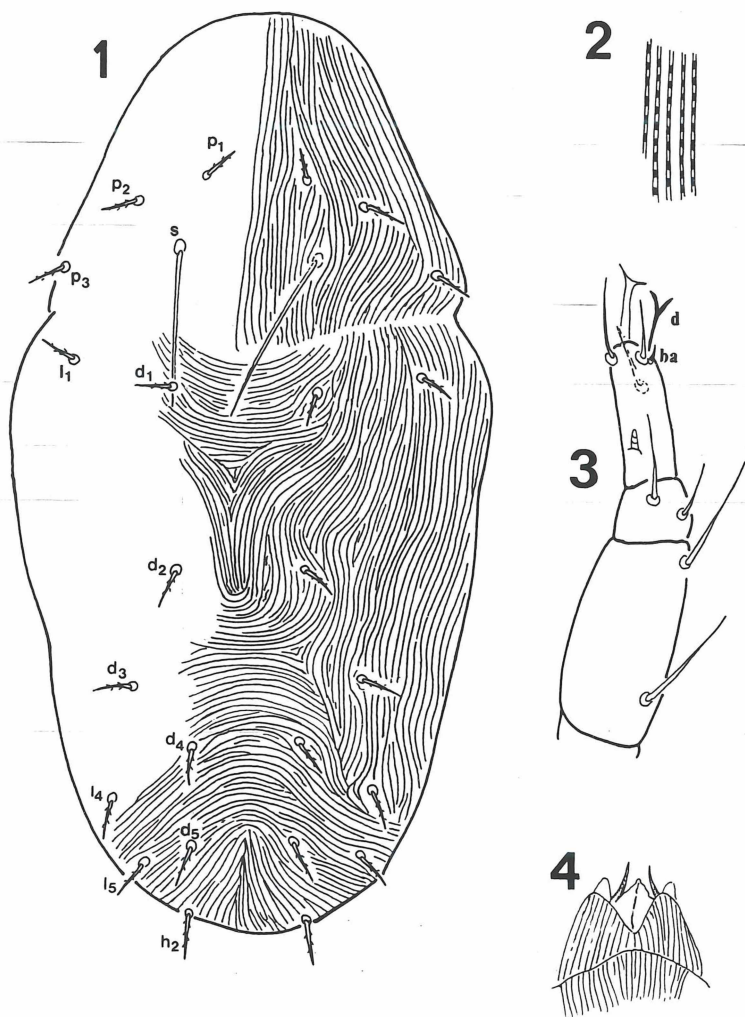
ETYMOLOGY. The species name is derived from the type locality.

TYPE LOCALITY. Egypt, Katta village, Giza Governorate. Leaves of mango trees, 9 May 1993, coll. F. Momen. Holotype ♀, 6 paratypes (♀).

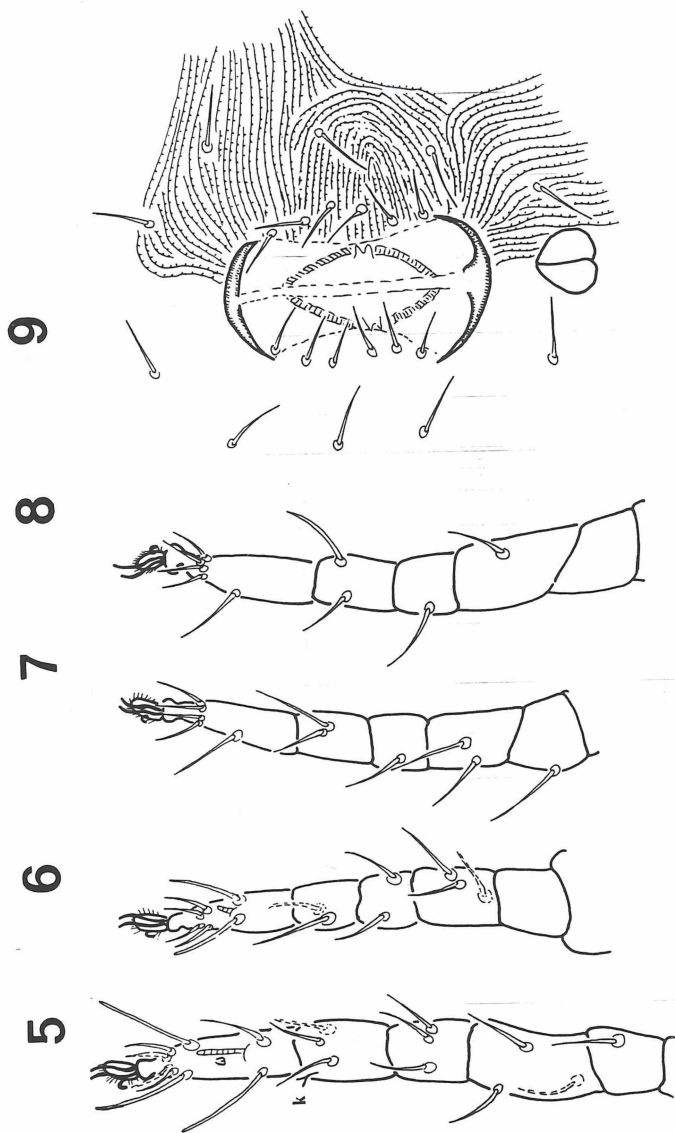
TYPE REPOSITORIES. The holotype (Reg. No. A37/94) is deposited in the Zoological Museum Hamburg, paratypes in the Department of Plant Protection, National Research Centre Cairo, Egypt.

REMARKS. *Tydeus kattai* sp. n. is a distinct species in having short dorsal setae, a trichobothrium 4.5 times longer than the length of other dorsal setae, long movable chelae and long solenidium on tarsus I. This combination of characters separates the taxon from all other known congeners.

We observed inconsistency (asymmetry) in the number of genital setae in two of the seven females (6 setae on one side, 7 on the other side of the body). Similar differences have been reported by Kaźmierski (1989, 1990) in *Lorryia inconstans* Kaźmierski, 1989 and *Eotydeus mirabilis* Kuznetsov, 1973. Momen and Lundqvist (in press) reported different number of dorsal setae *ps* in the species *Tydeus maga* Kuznetsov, 1973.



Figs 1-4: *Tydeus kattai* sp. n., adult female: 1- dorsal view, 2- details of dorsal striation, 3- palp, 4- gnathosoma and anterior edge of aspidosoma.



Figs 5-9: *Tydeus kattai* sp. n., adult female: 5- leg I, 6- leg II, 7- leg III, 8- leg IV, 9- genital region.

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Artikel/Article: [A new tydeid mite, Tydeus kattai sp. n., from Egypt \(Acari, Tydeidae\) 127-131](#)