REVISION OF THE SUBGENUS *OENOSCHOENGASTIA*, WOMERSLEY AND KOHLS, 1947 (ACARINA : TROMBICULIDAE) [1]

BY

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The genus *Oenoschoengastia* was raised in 1947 (9) to accomodate the unique species *O. cana*, exception being made for the peculiar aspect of the cheliceral blade. This species definitely belongs, in all its other characters, to the genus *Schoengastia*, and therefore, *Oenoschoengastia* was considered by V.-G., 1960 (5) to be a subgenus of the former.

We were very fortunately able to study the holotype and seventeen paratypes of *O. cana* thanks to the kindness of Dr. Peter AITKEN, assistant curator of insects, S. Australien Museum, ADELAIDE, to whom we are grateful for the loan.

Schoengastia (*Oenoschoengastia*) *cana* (Womersley and Kohls, 1947).

= *Oenoschoengastia cana* WOM. and KOHLS, 1947, WOM. 1952, BAKER and WHARTON, 1952, WHARTON and FULLER, 1952, GUNTHER, 1952, AUDY, 1954, RADFORD, 1954, WOM. and AUDY, 1957.

= *Schoengastia* (*Oenoschoengastia*) *cana*, V.-G., 1960.

A. — *Diagnosis : Schoengastia* possessing a cheliceral blade with multidentate apex and showing no definite tricuspid cap (fig. 3). The identification formula (5) is that of an authentic *Schoengastia* : 7 B.S — N — 3111.100. Scutum as in *Schoengastia* s. str., the posterior two-thirds covered by pleated ectostracum ; typical bulbose sensillae covered with inconspicuous and tiny spicules ; AM short ; ALs much longer than PLs, both of which are covered with numerous long, slender barbs. Subterminala and parasubterminala of tarsus 1 present, as are pretarsalae 1 and 2.

B. — *Host and Parasitope : Talegallus* sp. ? (" bush turkey ") ; from the mound.

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C. — *Locality and Date :* Dobadura, New Guinea, 18 May, 1944 (coll. G. M. K., No. 325).

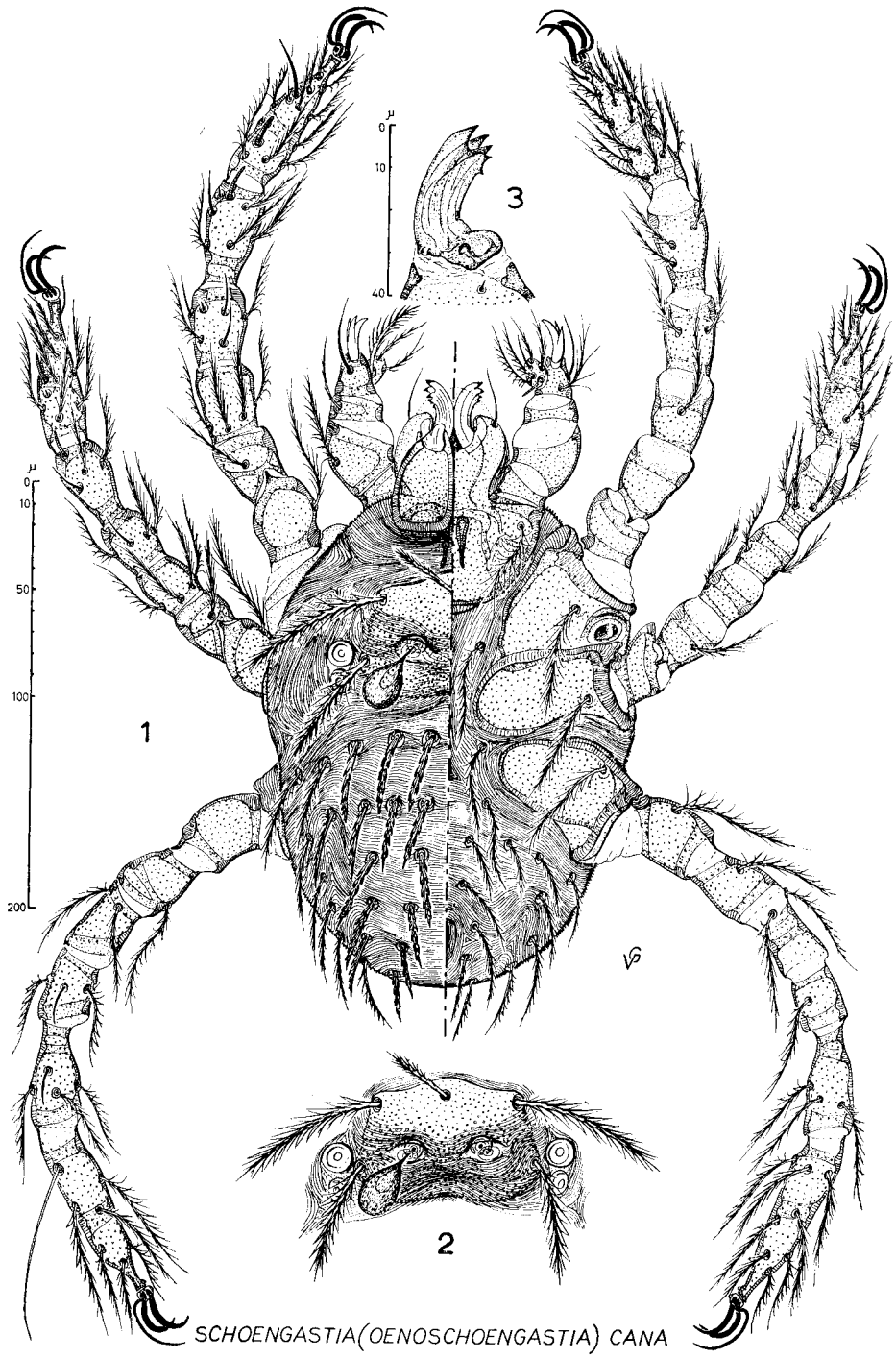
D. — *Description :*

1) *Measurements :* of the holotype and seventeen paratypes, with the means and observed range (in micra) :

		AW	PW	SB	ASB	PSB	SD	AP	AM	AL	PL
Holotype		68	82	32	40	26	66	30	—	74	67
Paratypes.....	1 —	63	80	32	32	22	54	26	35	74	56
	2 —	62	77	31	30	26	56	27	30	66	53
	3 —	63	77	32	30	26	56	31	35	74	58
	4 —	62	79	31	31	23	54	30	32	77	59
	5 —	62	78	32	33	23	56	28	30	75	63
	6 —	63	79	32	34	24	58	27	34	80	60
	7 —	65	81	30	34	25	59	28	—	77	60
	8 —	61	76	30	36	24	60	30	35	73	64
	9 —	65	79	32	33	23	56	30	33	77	60
	10 —	68	84	32	35	25	60	29	37	76	61
	11 —	66	79	32	35	24	59	28	35	71	59
	12 —	67	80	33	33	25	58	29	33	75	60
	13 —	65	81	32	39	23	57	29	33	75	64
	14 —	58	74	32	31	22	53	28	30	78	54
	15 —	72	87	38	38	26	64	31	39	86	71
	16 —	70	85	34	38	26	64	31	41	80	64
	17 —	61	75	32	32	26	58	29	35	75	61
Mean		65	80	32	34	24	58	29	34	76	61
Extremes.....	+	7	7	3	4	2	6	2	7	10	10
	—	4	6	2	4	2	5	3	4	10	8

		S	H	D	V	pa	pm	pp	Ip
Holotype		39	56	46/30	30/45	354	318	368	1040
Paratypes.....	1 —	38	53	45/26	30/38	330	270	340	940
	2 —	37	51	46/27	30/37	—	—	—	—
	3 —	37	54	48/25	33/35	315	265	318	898
	4 —	35	54	47/30	30/42	320	278	238	926
	5 —	35	56	42/29	33/38	325	275	330	930
	6 —	39	58	47/28	28/41	330	275	330	935
	7 —	—	53	45/27	31/40	330	280	230	940
	8 —	37	57	47/26	28/40	325	280	320	925
	9 —	38	57	47/26	29/43	320	276	320	916
	10 —	38	58	45/27	29/41	335	280	323	938
	11 —	37	55	41/26	30/40	330	285	330	945
	12 —	38	56	45/27	30/40	320	272	310	902
	13 —	37	56	45/25	29/40	325	290	330	945
	14 —	35	52	45/27	33/38	324	266	318	908
	15 —	39	64	40/32	36/47	365	310	370	1045
	16 —	40	61	38/26	35/42	362	312	362	1036
	17 —	34	55	47/28	32/44	350	290	350	990
Mean		37	56	44/27	31/40	333	283	334	950
Extremes.....	+	3	8	4/5	5/7	32	29	36	95
	—	3	5	6/2	3/5	18	18	24	52

N. B. For the sensillae, we established the following detailed mean measurements : bulb length 24 μ, bulb diameter 17 μ, peduncle 13 μ.



SCHOENGASTIA (OENOSCHOENGASTIA) CANA

WOMERSLEY & KOHLS, 1947.

2) *Scutum :* (fig. 2) Subtrapezoidal, anterior margin convex above the AM base, posterior margin rounded and slightly concave at the middle ; scutal surface abundantly and conspicuously punctate, the posterior two-thirds covered by pleated ectostracum. Sensillae globose, with a short peduncle, bulb covered with numerous inconspicuous, tiny spicules, sensillary base line slightly forward of the PL's. AM short, resembling a barley ear ; ALs and PLs longer and provided with numerous long, slender barbs : AL > PL > AM. On each side of the scutum is a pair of eyes on a sclerotized plate, the anterior ocellus the larger and situated on the sensillary base line.

3) *Idiosoma :* (fig. 1) All specimens having been collected unattached in a mound, the larvae are unengorged and we are able to provide the mean measurements for body dimensions of the living mite, corrected by calculation to allow for compression in mounting : body length = 170 μ, body width = 115 μ, body height = 115 μ. The longitudinal ectostracal pleats observable on the propodosoma and opisthosoma, but not on the metapodosoma, allow us to assume that the engorged larva will develop the eight-shaped configuration typical to most trombiculid mites. A very peculiar feature is present in the body setation : mid-dorsal setae stout and shorter (38 μ) covered with few enlarged barbs, in contrast to the slender and longer (46 μ) dorso-lateral setae, covered with long, ordinary barbs.

Dorsal formula : *f*D = 2 H + 8.10.6.6.6.4 = 42 dorsal setae.

Ventral formula : *f*V = 8.4.4.4.2 = 22 ventral setae.

NDV = 42 + 22 = 64 body setae. Uropore between fourth and fifth rows of ventral setae.

4) *Legs :* (fig. 1) These are relatively long, and I*p* = 950 shows a rather large species. Segmentation formula : *fsp* = 7.7.7

Coxal formula : *f*C*x* = 1.1.1 (all plumose setae).

Sternal formula : *f*S*t* = 2.2.2 (similar to coxals). Subterminala and parasubterminala present on tarsus 1, as are pretarsalae on 1 and 2. Genualae and tibiala 3 as follows : *ga* = 3 (+ famulus), *gm* = 1, *gp* = 1 and *tp* = 1.

Tarsal bar formula : *f*BT = *2b* — *2b* — *2b*. Long mastitarsala 3 (76 μ).

5) *Gnathosome :* (figs. 1 & 3) Chelobase robust, cheliceral blade stout, with multidentate apex (no apparent tricuspid cap) (fig. 3). Galeal setae nude (a constant character in all *Schoengastia*).

Palpal formula : *f*P*p* = (B)—(N″)—(N).N.B.G_3—E.B.B.B.B.S.(B).(B).(B). and *f*T = 7B.S. Palpo-tibial claw stout and trifurcate. Gnathobase abundantly punctate (like the coxae), and provided with two plumose setae.

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