

REDESCRIPTION OF *SPINTURNIX DASYCNEMI* (KOLENATI) (ACARINA : SPINTURNICIDAE).

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SPINTURNIX DASYCNEMI REDESCRIPTION

SUMMARY : Both male female of *Spinturnix dasycnemi* (Kolenati) (Acarina : Spinturnicidae) are redescribed and illustrated from specimens in the Kolenati and Oudemans Collections. Comments are made on the specimens in the Oudemans Collection.

SPINTURNIX DASYCNEMI REDESCRIPTION

RÉSUMÉ : Le mâle et la femelle de *Spinturnix dasycnemi* (Kolenati) (Acarina : Spinturnicidae) sont décrits et dessinés, d'après des spécimens des Collections Kolenati et Oudemans. Les auteurs donnent commentaires sur *S. dasycnemi* de la Collection Oudemans.

INTRODUCTION

Since KOLENATI's work, in 1859, *Spinturnix dasycnemi* has not been redescribed or illustrated. BUITENDIJK (1945), however, list specimens of this species in the Oudemans collection. RUDNICK (1960) consider *S. dasycnemi* as a *species inquirenda*. Specimens of the parasite are present in the Kolenati and in Oudemans Collection and have been used in the following redescription of the male and female of *S. dasycnemi*.

Spinturnix dasycnemi

(All measurements are in micrometers).

Pteroptus dasycnemi KOLENATI, 1856, Allg. Deutsche Naturk. Ztg. (ser. 2), 2 : 177 ; 1856, Die Parisiten der Chiroptern, p. 26 ; BERLESE, 1892, Acari, Myriapoda et Scorpiones hucusque in Italia reperta. Ordo Mesostig-

mata (Gamasidae), p. 28 ; STILES and NOLAN, 1931, National Inst. Health Bull. N. 155 : 631.

Diplostaspis dasycnemi KOLENATI, 1857, Wien. Ent Monatschr., 1 (2) : 60 ; 1859, Sitzungsber. K. Akad. Wissensch. Wien, Math.-Naturw. Cl., 35 : 159, pl. 2, fig. 5 ; Jahresh. naturw. sect. K.K. mähr. ges. Ackerb. Natur-Landeskr., p. 106 ; C. KOCH, 1865, Jahrb. Nassewisch. Ver. Naturk., p. 201.

Celeripes sp., OUDEMANS (*in part*), 1896, Tijdschr. Ent., 39 : 136 ; STILES and NOLAN, 1931, National Inst. Health Bull. N. 155 : 632.

Female.

Idiosoma (Figure 1) ovate, 1025-1075 long and 821-855 wide ; dorsal shield large, close to the body edges, 945-960 long and 721-745 wide, with 14 pairs of pores of which at least 10 pairs with distinct minute setae ; 2 pairs of pores and 5 pairs of setae on lateral integument anterior to the peritremes.

Dorsal integument with widely distributed scale-

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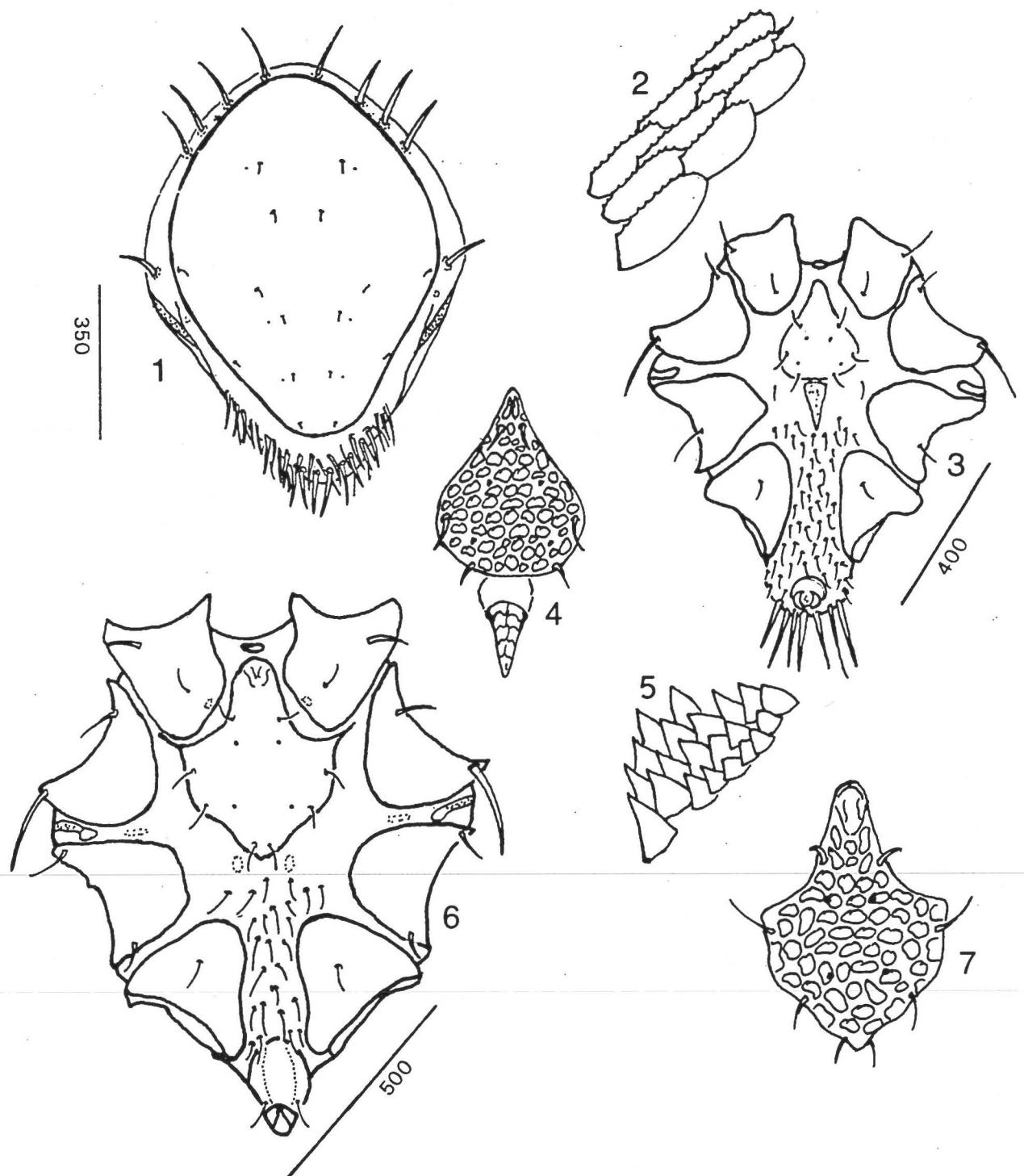


FIG. 1-7 : *Spinturnix dasycnemi* (Kolenati).

1. — Female, dorsal, view. 2. — Female, scale-like ornamentation of dorsal surface. 3. — Female, ventral view. 4. — Female, sternal and genital shields. 5. — Male, conical pattern of dorsal surface. 6. — Male, ventral view. 7. — Male, sternal shield.

like pattern (Figure 2) ; 62-67 long dorsal opisthosomal setae.

Gnathosomal setae long and thick ; tritosternum very small (Figure 3), rectangular in shape. Sternal shield (Figures 3 and 4) 205-215 long and 165-174 wide, very narrow anteriorly, rounded posteriorly, with 3 pairs of small setae and 2 pairs of pores, with characteristic surface (Figure 4). Genital shield (Figure 4) 108-114.5 long and 33-36 wide, narrow posteriorly; remnants of metasternal shields lateral to genital shield ; 50-54 pairs of ventral setae between genital and anal shield ; anal shield rounded anteriorly, about as long as wide.

Legs with very long setae ; number of the setae on legs (from coxa to tarsus) as follows : I) 2,5,11,9,9,30 ; II) 2,5,9,8,7,18 ; III) 2,5,6,8,7,18 ; IV) 1,5,6,8,7,18. Tarsus I length : 226.1 ; distance between coxae I : 83.3.

Male.

Idiosoma ovate, 930-940.1 long and 730-739 wide ; dorsal shield 812-820 long and 661-674.5 wide. Dorsal integument with strong, conical scale-like pattern (Figure 5).

Five pairs of finely serrated dorsal setae, anterior to the peritremes ; 10 pairs of pores on dorsal surface, of which 9 pairs with minute setae ; 28-30 pairs of dorsal opisthosomal setae posterior to the peritremes.

Tritosternum narrow ; sternal shield (Figures 6 and 7) 370-374.8 long and 257-261.8 wide, extending posteriorly to middle level of coxa III, with 3 pairs of setae and 2 pairs of pores, and with characteristic sculpturing pattern ; 20-22 pairs of setae between posterior margin of sternal shiel and anal shield. Anal shield as in female.

Number of setae on legs as in female, except tarsus I with 28 setae. Tarsus I length : 249.9 ; distance between coxae I : 95.2.

TABLE 1 : Différences between *S. dasycnemi* and other species in the *myoti* group.

FEMALES

	<i>S. myoti</i>	<i>S. mystacinus</i>	<i>S. emarginatus</i>	<i>S. andegavinus</i>	<i>S. dasycnemi</i>
BODY MEASUR	1 190-1 722 ×	931-1 057 ×	900-1 030 ×	908-960 ×	1 025-10 75 ×
	938-1 330	784-938	740-850	790-900	821-855
DORSAL SHIELD	850-922 ×	672-690 ×	568-688 ×	600-670 ×	945-960 ×
	620-669	495-512	466-536	490-520	721-745
STERNAL SHIELD	213-270 ×	155-167 ×	175-193 ×	160-180 ×	205-215 ×
	217-239	148-159	183-195	130-152	165-174
NUMBER OF DORSAL OPISTHOS. SETAE	90-130	70-80	40-50	80-100	62-67
NUMBER OF VENT	65-100	32-40	20-35	70-80	54-50

MALES

	<i>S. myoti</i>	<i>S. mystacinus</i>	<i>S. emarginatus</i>	<i>S. andegavinus</i>	<i>S. dasycnemi</i>
BODY MEASUR	1 029-1 162 ×	1 000-1 098 ×	841-855 ×	800-830 ×	930-940 ×
	840-910	830-904	698-730	640-700	730-739
DORSAL SHIELD	743-810 ×	620-655 ×	537-590 ×	630-660 ×	812-820 ×
	527-607	513-549	496-524	540-560	661-674
STERNAL SHIELD	354-371 ×	277-289 ×	300-310 ×	280-299 ×	370-374 ×
	266-285	200-215	234-245	195-220	257-261
DORSAL PATTERN	smooth	smooth	fine and conical	smooth	strong and conical

REMARKS

Spinturnix dasycnemi is closely related to species of the *myoti* group. Table I shows several differences between these species. Females are easily

distinguished by the shape of sternal shield (very narrow anteriorly in *S. dasycnemi*) as well as by the lower number of opisthosomal and opisthogastric setae. The male is distinguished by the scalelike pattern of the dorsal surface ornamentation.

Notes on material in the Oudemans Collection.

a) Specimens on the slide labelled “*Spinturnix dasycnemi* (Kolenati) ♀ rug buik. *Myotis nattereri* Maastricht ; 20 Jan. 1910. H. Schultz S. J. Museum Leiden, Verz. A. C. Oudemans, Cat. N° 3 ”. Both females of *Spinturnix dasycnemi*.

Specimens on the slide labelled “*Spinturnix dasycnemi* Kolenati, Deut. rug., ♂ rug. *Plecotus auritus* Utrecht 4. Oudemans. Museum Leiden, Ver. A. C. Oudemans, Cat. N° 2 ”. Both males of *Spinturnix dasycnemi*.

b) The slide labelled “Museum Leiden, Verz. A. C. Oudemans, Cat. N° 1 ” (*Spinturnix dasycnemi* from *Eptesicus noctula*) contains two females of *Spinturnix myoti*.

c) As RUDNICK (1960) stated, *S. dasycnemi* “...is reported from *Myotis dasycneme* in Europe”. The two slides from this host in Oudemans Collection, labelled “*Spinturnix murinus* (Walckenaer)” are specimens of *Spinturnix myoti*. Parasitism of *Myotis dasycnemi* was pointed out by KOLENATI (1859).

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