

Camirohylla feziana Haitlinger, 1991 and *Canestrinia samsinaki* Beron, 1975 (Acari: Astigmata: Canestriniidae) new mite species to fauna of Spain, found on Ibiza and Formentera (Balearic Islands)

Ryszard HAITLINGER

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Camirohylla feziana Haitlinger collected on Formentera and Ibiza and *Canestrinia samsinaki* Beron (Astigmata: Canestriniidae) collected on Ibiza (Balearic Islands), both obtained on *Blaps* sp. (Coleoptera: Tenebrionidae), are new to the fauna of Spain. Descriptions of deutonymph and larva for *C. feziana* are given.

Keywords: *Astigmata*, *Canestriniidae*, *Camirohylla feziana*, *Canestrinia samsinaki*, *Balearic Islands*, *faunistic*.

Camirohylla feziana HAITLINGER, 1991 AND *Canestrinia samsinaki* BERON, 1975 (ACARI: ASTIGMATA: CANESTRINIIDAE) NOU ÀCAR PER A LA FAUNA D'ESPANYA, D'EIVISSA I FORMENTERA (ILLES BALEARS). *Camirohylla feziana* Haitlinger col·lectada a Formentera i Eivissa i *Canestrinia samsinaki* Beron (Astigmata: Canestriniidae) col·lectada a Eivissa (Illes Balears), ambdós recol·lectades sobre *Blaps* sp. (Coleoptera: Tenebrionidae), són noves per a la fauna d'Espanya. També es donen les descripcions de deutonimfes i estat larvari de *C. feziana*.

Paraules clau: *Astigmata*, *Canestriniidae*, *Camirohylla feziana*, *Canestrinia samsinaki*, *Illes Balears*, *faunística*.

Ryszard HAITLINGER, Department of Zoology, Agricultural Academy, 50-205 Wrocław, Cybulskiego 20, Poland; e-mail: rhait@ozi.ar.wroc.pl

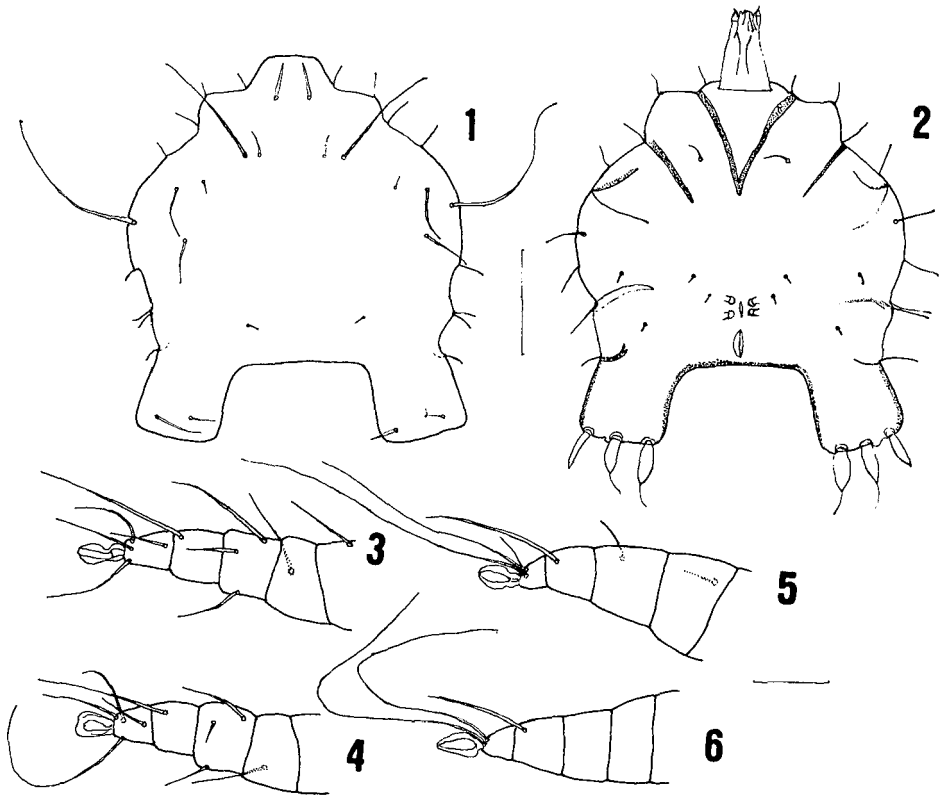
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Introduction

In Spain fauna of canestriniid mites is poorly known. Up to now were found 7 species: *Mesophotia penicillata* Samsinák with 2 subspecies *M. p. penicillata* Samsinák and *M. p. similis* Samsinák, *Neophotia latissima* Samsinák, *N. jureceki* Samsinák, *N. drvotocka* Samsinák, *Photia lusitanica* Samsinák, *Canestrinia hispanica* Samsinák, all from continental Spain and *Pseudoamansia chryso-melinus* (C.L. Koch) the only one species to date found on Balearic

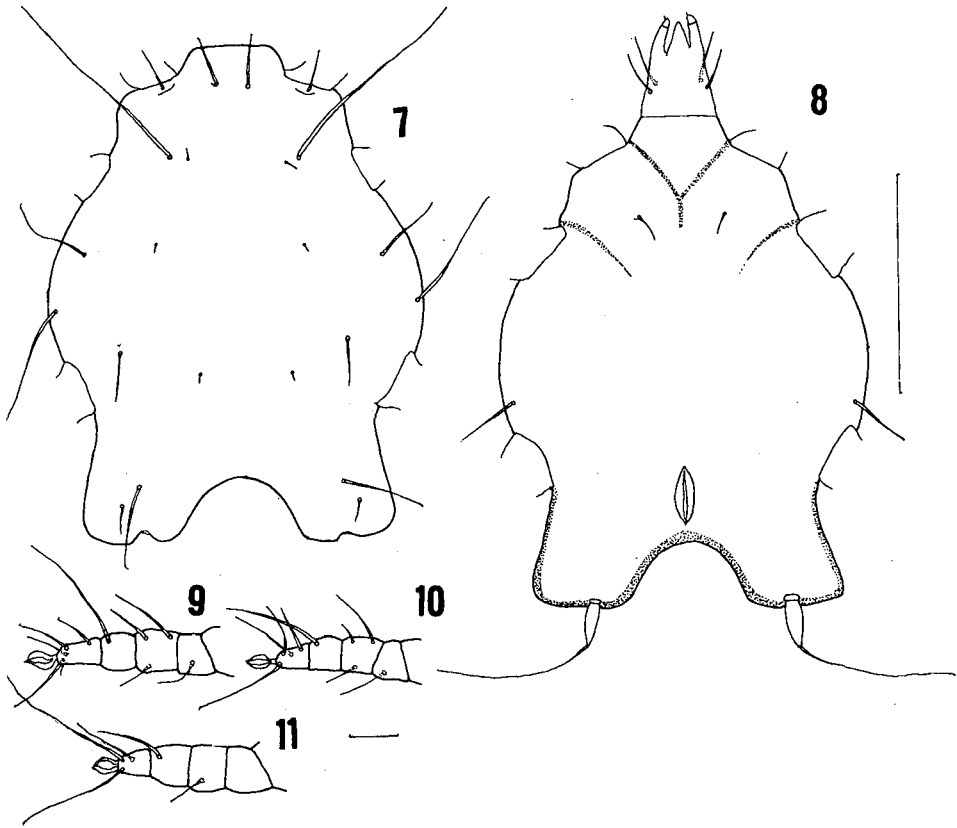
Islands (Majorca). All species mentioned above are associated with Carabidae, except *P. chryso-melinus* associated with the genus *Timarcha* (Chrysomelidae) (Theodorides, 1955; Samsinák, 1970).

At present are found two further species: *Camirohylla feziana* Haitlinger and *Canestrinia samsinaki* Beron, both associated with Tenebrionidae. *C. feziana* was obtained on *Blaps* sp. (Tenebrionidae) from Formentera and Ibiza and *C. samsinaki* was obtained on the same host from Ibiza.



Figs. 1-6. *Camirohylla feziana* Haitlinger, deutonymph. 1 - idiosoma, dorsal view; 2 - idiosoma, ventral view; 3 - leg I, tarsus-trochanter; 4 - leg II, tarsus-trochanter; 5 - leg III, tarsus-trochanter; 6 - leg IV, tarsus-trochanter. Scale bars: 100 μ m (Figs. 1-2), 50 μ m (Figs. 3-6).

Figs. 1-6. Camirohylla feziana Haitlinger, deutonymfa. 1 - idiosoma, visió dorsal; 2 - idiosoma, visió ventral; 3 - leg I, tars-trocànter; 4 - leg II, tars-trocànter; 5 - leg III, tars-trocànter; 6 - leg IV, tars-trocànter. Escala: 100 μ m (Figs. 1-2), 50 μ m (Figs. 3-6).



Figs. 7-11. *Camirohylla feziana* Haitlinger, larva. 7 - idiosoma, dorsal view; 8 - idiosoma, ventral view; 9 - leg I, tarsus-trochanter; 10 - leg II, tarsus-trochanter; 11 - leg III, tarsus - trochanter. Scale bars: 100 μ m (Figs. 7-8), 25 μ m (Figs. 9-11).

Figs. 7-11. Camirohylla feziana Haitlinger, larva. 7 - idiosoma, visió dorsal; 8 - idiosoma, visió ventral; 9 - leg I, tars-trocànter; 10 - leg II, tars-trocànter; 11 - leg III, tars - trocànter. Escala: 100 μ m (Figs. 7-8), 25 μ m (Figs. 9-11).

C. feziana Haitlinger was described from unknown locality in Morocco by Haitlinger (1991). Only one male was obtained on *Blaps appendicula* (Coleoptera: Tenebrionidae). Because this species until now was known only from single specimen measurements are given for male, deutonymphs and larvae from Balearic Islands; the first time are described and figured deutonymph and larva.

Canestrinia samsinaki Beron was known from Bulgaria and Cyprus; it was obtained from *Gnaptor* sp. in Bulgaria and *Blaps* sp. in Cyprus

(Beron, 1975; Haitlinger, 1993). Ibiza is the third place from where is known this species.

Camirohylla feziana Haitlinger

Material: 1 ♂, 1 deutonymph, 1 larva, Formentera, Es Pujols, 5 September 2000; 1 larva, Ibiza, Sant Antoni, 8 September 2000; leg. R. Haitlinger.

Terminology used by Haitlinger (1991) differs from used in this paper. Below is presented a comparison between the terminology used

in the description of *C. feziana* and used in this paper: d1=c1, d2=d1, d3=e1, d4=h1, d5=h2, l1=c2, l2=d2, l3=e2, l4=f2, l5=h3. he=cp, hi=c3, SoTiI=Φ, gda=δ, gdp=cG, sge=mG.

Measurements. ♂: IL (length of idiosoma) 362 mm, IW (width of idiosoma) 317, sce 104, vi 44, ve 38, c1 10, c3 46, cp ~154, c2 62, d2 68, e2 34, h1 24, h2 36, f2 60, h3 84, TaI 18, TaII 18, TaIII 18, TaIV 18, ΦI 74, ΦII 64, ΦIII 72, ΦIV 64, δI 20, cG 62, mG 40, genital apparatus 48, GL 74.

Deutonymphs: IL 317, 266, IW 298, 209, sce 102, 100, sci 22, 20, vi 34, 30, ve 36, -, c1 10, -, c2 50, 46, c3 42, 34, cp ~160, 114, d2 44, 40, e2 44, 30, h1 24, ~24, h2 56, 30, f2 40, 30, h3 56, 62, TaI 20, 20, TaII 16, 16, TaIII 18, -, TaIV 18, 16, ΦI 72, 60, ΦII 56, 56, ΦIII 58, 52, ΦIV 50, -, δI 22, -, cG 44, -, mG 30, -, GL 66, 60.

Shape of idiosoma of deutonymph and arrangement of dorsal and ventral setae are identical as in males. The only differences concern dimensions of idiosoma, length of gnathosoma, length of some idiosomal setae and solenidia on tibiae I-IV (Figs. 1-6).

Larvae. IL 224, 190, IW 168, 144, sce 102, 94, sci 10, -, vi 32, 32, ve 28, -, c3 32, 40, cp 60, 62, ΦI 54, 62, ΦII 46, 42, ΦIII 34, 34, dI 20, -, cG 30, -, mG 22, -, GL 46, 52.

Shape of idiosoma is similar to shape of idiosoma in males. Larva has already all dorsal setae, but setae e1 are shifted to front of the idiosoma (Figs. 7-11). On original drawings of male from Morocco has setae f2, h3 and h2 without long filiform apical part; in male from Formentera setae h3 have such long filiform apical part. Also deutonymphs have setae h2 and h3 with such long apical part; in larvae setae h3 bear

such apical part. Probably in males these long filiform apical parts are broken. Male from Formentera has TaI mm 18 long; in male from Morocco this dimension was given mistakenly (28μm) - it is the same as in male from Formentera.

Canestrinia samsinaki Beron, 1975

Material: 1 ♂, 4 ♀♀, 3d, Ibiza, Sant Antoni, 8 September 2000.

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