Key to the genus Cupiennius (Araneae, Ctenidae)

Friedrich G. BARTH & Detlev CORDES

The following key includes the description of the coloration patterns in the genus *Cupiennius*, typical of living representatives of the species. In the larger species, this permits determination of the species even for subadult specimens, although the coloration may be indistinct or even absent in preserved specimens. The shape of the epigynum, vulva and bulbal sclerites is then of major importance. Especially the smaller species of *Cupiennius* have an indistinct or variable coloration pattern on their body and legs. Their determination is only possible by dissection of the vulva (females) or by looking at small details of the male bulb. The present key is in essence a reprint of parts of an earlier publication (BARTH & CORDES 1998). It includes all important features of the genitalia already described in LACHMUTH et al. (1984). Besides including *C. remedius* and *C. celerrimus*, it considers body size and characters of the coloration pattern and of the genitalia. The definition of the colours used in the key is taken from the colour table for coloured pencils of Faber-Castell, Germany. For *C. chiapanensis* (MEDINA SORIANO 2006) and *C. vodou* (BRESCOVIT & POLOTOW 2005), two recently described new species, the reader is referred to the original literature.

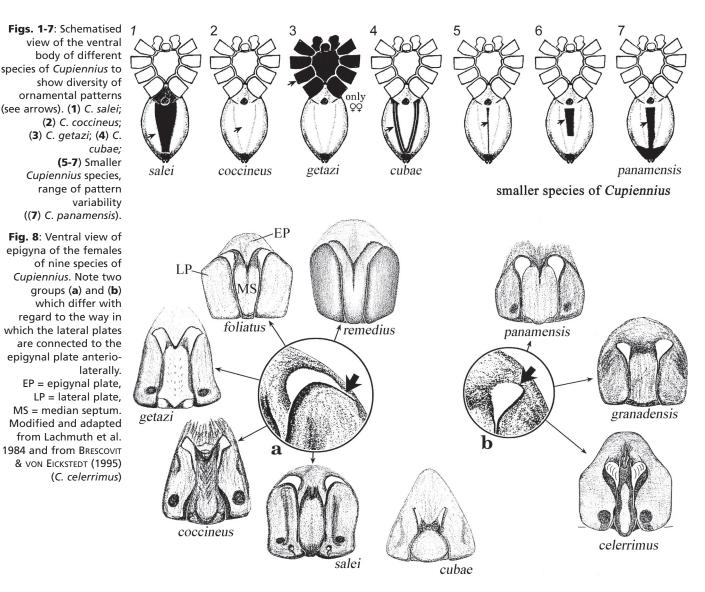
Adult Females

legs and/or body uniformly brown or with comparatively indistinct or variable markings 4

- 2.(1) Legs brown with conspicuous dark markings . . 3 Femora I-IV bright carmine-red ventrally; prosoma and opisthosoma medium to dark brown dorsally with a darker median band; ventral opisthosoma without any dark markings (Fig. 2); epigynum with narrow median septum, widening distally; distal part of septum with strongly sclerotised hook (Fig. 8a) coccineus
- 3.(2) Femora I-IV with distinct black annular patterns; prosoma with light greyish-brown pattern dorsolaterally contrasting with the darker median band; coxae densely covered with terracotta red hairs ventrally; ventral opisthosoma always with broad black median stripe (Fig. 1); in some specimens, pairs of yellowish to whitish spots distolaterally on both sides of the cardiac mark; epigynum with narrow median septum of uniform width (Fig. 8a); body length up to 45 mm (largest species)salei Femora I-IV on the ventral side with many small black spots, either sternum or both sternum and coxae (variable) dark brown to black (Fig. 3);

- 5.(4) Lateral plate of epigynum directly connected to the median septum forming a loop (Fig. 8b)...6

6.(5) Epigynum with narrow median septum, seminal receptacles I with seminal ducts of different shapes: S-shaped, twisted, winding or rolled . . 7 Stapfia **88**, zugleich Kataloge der oberösterreichischen Landesmuseen Neue Serie **80** (2008): 225-228



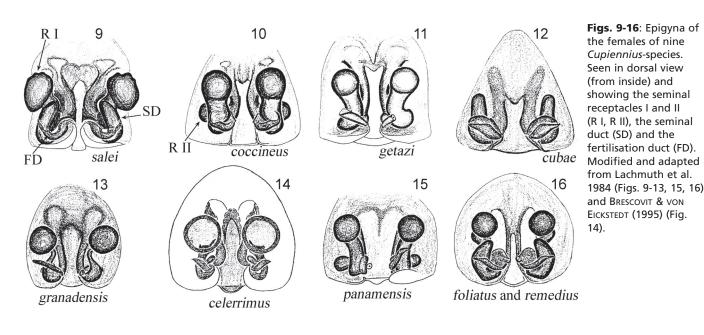
Epigynum wider than long (Fig. 8b); median septum broad and leaf-like; vulva: seminal receptacles I ball-shaped with seminal ducts sturdy and slightly curved laterally (Fig. 15); prosoma light brown; opisthosoma darker brown, with narrow darkly shaded median band ventrally (Fig. 6); smallest species panamensis

7.(6) Median septum with parallel borders, distally ending broad, and with a small hook (Fig . 8b); vulva: seminal receptacles I with distinctly Sshaped seminal ducts (Fig. 13) granadensis

> Median septum long, narrow and slightly widening distally (Fig . 8b); vulva: seminal receptacles large and ball-shaped, seminal ducts rolled dorsoventrally (Fig . 14); body orange to brown with darker brown median band, legs I-IV yellow ventrally on coxae and femora celerrimus

8.(5) Lateral plates of epigynum ending rounded before connecting to the epigynal plate (Fig. 8a), me-

dian septum of epigynum narrow and continuously narrowing distally (Fig. 8a); vulva with ball-shaped seminal receptacles, seminal ducts strongly winding (Fig. 16); medium large spider (carapace length 7-8 mm); annular patterns on femora, and body remarkably spotted; tarsi of legs I-IV with long dark hairs both dorsally and ventrally *remedius*



Adult Males

2.(1) Legs and/or body with conspicuous markings. . 3

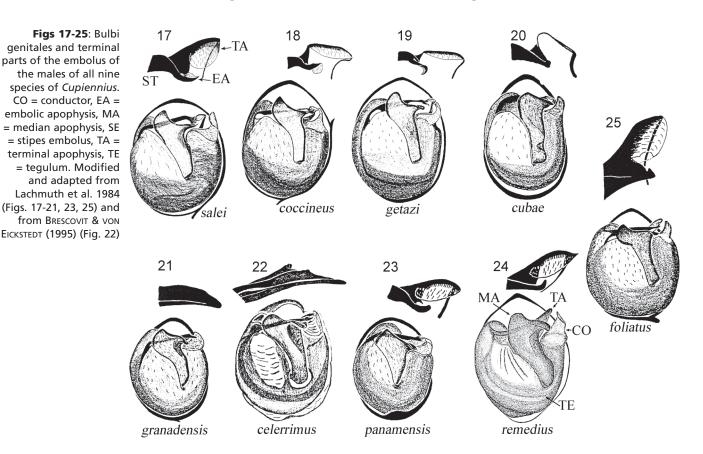
Legs without conspicuous coloration; legs and body grey-brown with median band on dorsal prosoma consisting of thin dark lines; light opisthosoma with dark cardiac mark, lacking dark markings ventrally; bulb with terminal apophysis bent downwards, embolic apophysis strongly curved and twisted (Fig. 18) coccineus

3.(2) Femora I-IV with distinct black annular patterns ventrally; body greyish dorsally with dark lines along the length of the prosoma (= median band); sternum and coxae greyish; opisthosoma with broad dark median band ventrally; bulb with large terminal apophysis bent downwards, embolic apophysis robust and curved (Fig. 17); body length up to 30 mm (largest species)salei

Femora I-IV with many small black spots ventrally; sternum and coxae dark brownish (variable); conspicuous species-specific body coloration: a dark median band dorsally on prosoma and opisthosoma bordered by light areas laterally; dark cardiac mark dorsally on opisthosoma, and dark inverse V-shaped stripes posterior to it; two morphs with either greyish or orange basic coloration. Bulb with terminal apophysis bent downwards, embolic apophysis strongly curved and twisted (Fig. 19) getazi

Opisthosoma only with dark reddish outlines of the ventral median stripe (Fig. 4); bulb (Fig. 20) with median apophysis comparatively straight and notched in the proximal third of its length, distal process and lateral shovel-like process very small, terminal apophysis strongly domed and extending over the short embolic apophysis. Body greyish or brownishcubae

Embolic base (stipes-embolus) with distinct terminal and embolic apophysis (Figs. 17-20, 23-25)......7



8.(6) Carapace length ca. 8 mm; body with spotted coloration pattern dorsally; legs long (sexually dimorphic), covered with a "brush" of long and thin hairs along the tibia and metatarsus and with the longest hairs at the proximal part of the tibiametatarsus joint; median apophysis with an elevation near the lateral process, tegulum with deep furrows ventrally *remedius*

Carapace length ca. 5 mm; body without distinct coloration pattern dorsally; dorsal opisthosoma darker than prosoma and with a small dark median band ventrally, widening towards the posterior part of the opisthosoma (Fig. 7) ... panamensis

References

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Addresses of authors:

Friedrich G. Barth University of Vienna Department for Neurobiology and Cognition Research Althanstr. 14 A-1090 Vienna, Austria, E-mail: friedrich.g.barth@univie.ac.at

> Detlev Cordes Berliner Platz 22 D-90489 Nürnberg, Germany E-mail: bud.cordes@t-online.de