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Three New Species of Genus *Adelphocoris* REUTER from China

(Insecta, Heteroptera: Miridae)

With 15 Figures

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China has a rich fauna of genus *Adelphocoris*, many species have been described and recorded by REUTER (1903, 1906), LINDBERG (1934), HSIAO (1942, 1962) and KERZHNER (1987, 1988). Recently in a check-list ZHENG & LI (in press) enumerated a total of 24 species found from China. Here in this paper three new species are described. Type specimens will be deposited in the Department of Biology, Nankai University, Tianjin, China (PRC). All measurements are in millimeters.

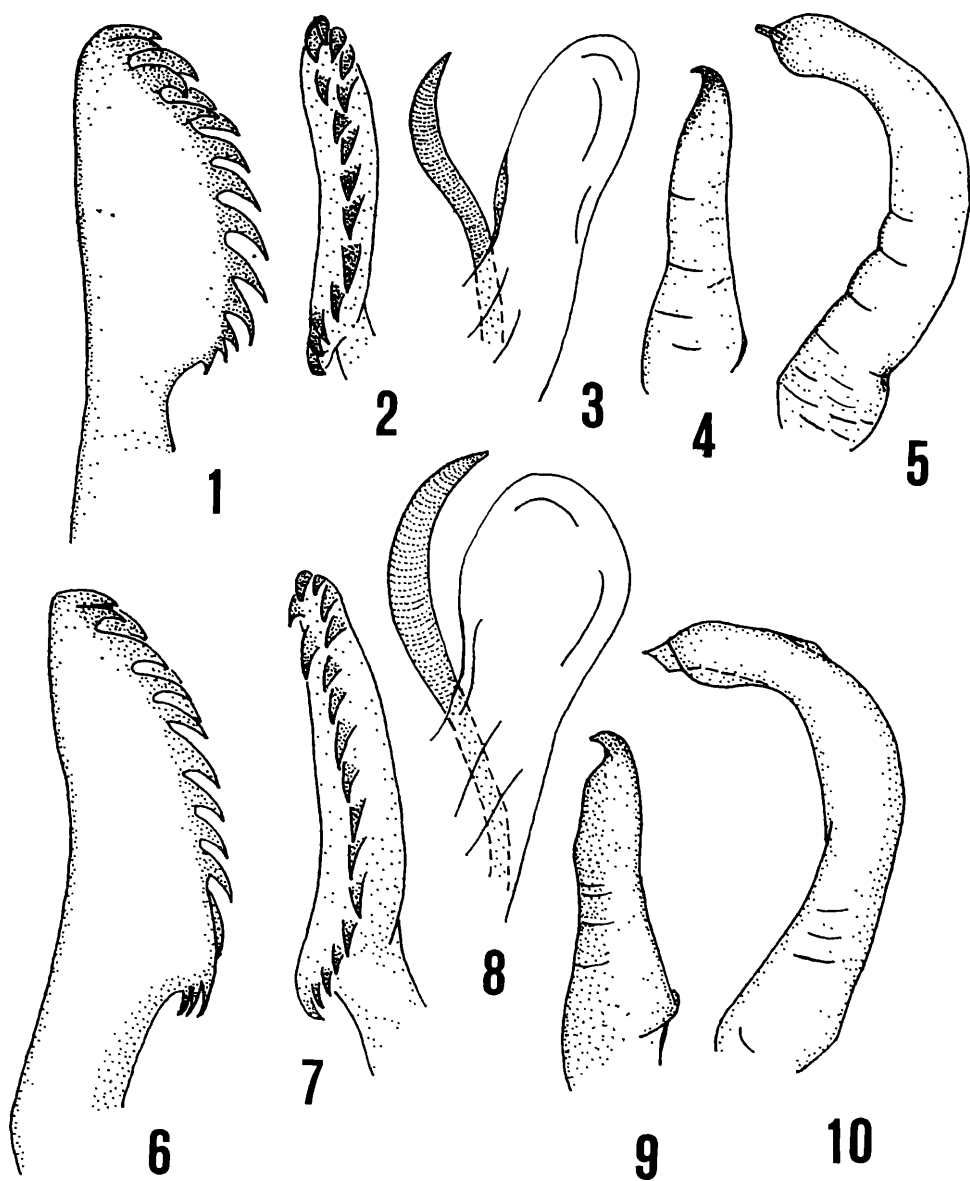
Adelphocoris zoui sp. n. (Figs. 1–5)

Ochraceous, with silvery sericeous pubescence, straight hairs on hemelytra light brown, those on cuneus and the subapical area of corium black, the latter comparatively long and recumbent. Head ferrugineous, clypeus, jugae and genae reddish brown. Male vertex width equals to eye width, female 1.7x eye width. Antennal segment I and extreme base of II reddish brown, apical half or $\frac{2}{3}$ of II gradually darkened up to piceus, III & IV dark brown with basis yellowish white. Rostrum reddish brown, segment IV black, almost extending to apex of hind coxae. Pronotum with posterior half dark brown, margins of dark part gradually fading out; anterior half (including calli) yellowish brown. Scutellum, corium and clavus yellowish brown, costa concolorous with corium or slightly darkened, cuneus yellow, its inner angle extensively piceus, apex black. Femora reddish brown, tibiae yellowish white, usually with reddish suffusions. Body beneath brown to piceus, ostiolar peritreme yellow. Venter ferrugineous, laterally with a series of longitudinally arranged black spots. Structure of male genitalia Comb of vesica dorsally convex (fig. 1), length 0.24–0.26; spicule slender, comparatively straight (fig. 3). Claspers as in figs. 4 & 5.

Measurements Body length 7.9–8.3, width 2.6–2.7, head apex to cuneal suture 5.1–5.4. Head length 0.96–0.98, width 1.16. Vertex width ♂, 0.38; ♀, 1.02. Eye width ♂, 0.38; ♀, 0.60. Antennal segments length 0.96 2.72 2.24 1.27 Rostrum length 2.6–2.7 Pronotum length 1.0–1.1, width 1.0–1.1. Corium length 3.6–3.8. Cuneus length 1.15–1.25, width 0.95–1.05.

Holotype ♂, Wenchuan County (alt. 1500 m), Szechwan Province, China, 20. VII. 1963, H. G. Zou leg. — **Paratypes** 1 ♀ & 3 ♂♂, with same data as holotype.

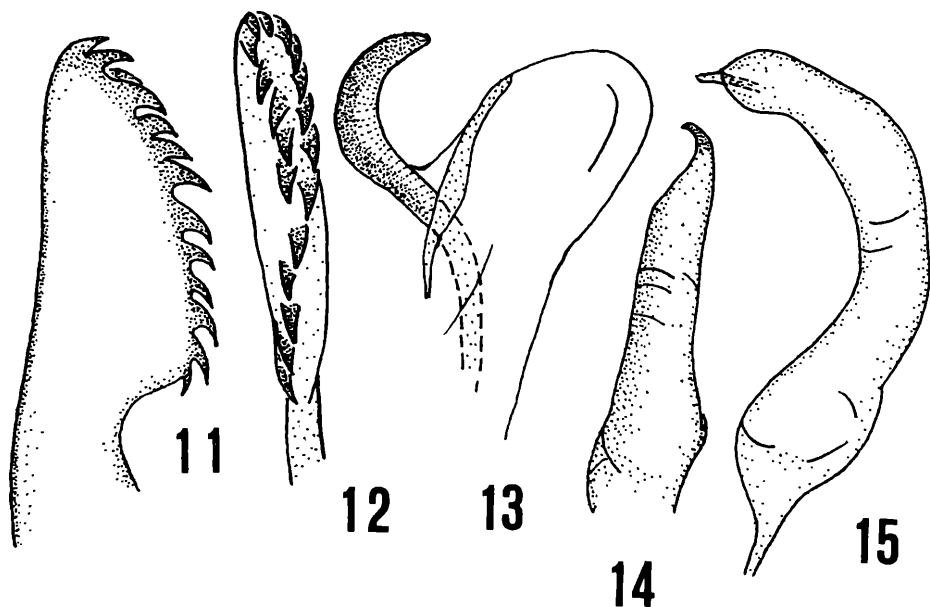
Remarks Close to the sympatric species *A. luridus* REUTER in colouration and habitus, but body larger, head darker, pronotum with dark coloured area more extensive. Differs from the another sympatric species *A. taeniophorus* REUTER in Clavus pale coloured, corium unicoloured, costa not conspicuously black, distribution of black straight hairs on corium more restricted, collar with black setae, cuneus differently coloured. Compare with *A. fasciiger* REUTER, the differences are: Body larger, hemelytra colour paler, head darker, antennal segment II bicoloured. The comb and spicule of male vesica of the new species are different with those of all the above mentioned three species.



Figs. 1–5: *Adelphocoris zoui* sp. n.; 1, 2: comb of vesica – 3: spicule of vesica – 4, 5 claspers. – Fig. 6–10: *Adelphocoris yunnanensis* sp. n.; 6, 7 comb of vesica – 8: spicule of vesica – 9, 10: claspers.

***Adelphocoris yunnanensis* sp. n. (Figs. 6–10)**

Body narrowly elongate, light brown to tannish brown, the darkened part usually with reddish tinge. Sericeous pubescence dense; straight hairs comparatively long, greyish black on posterior half of corium. Head shiny, brown, clypeus usually darker, weakly bulging forward basally, frons laterally with a series of parallel arranged transverse rows of small hairs. Male vertex width = $0.67\text{--}0.78\times$ eye width. Antennae reddish brown, segment I outwardly and II with basis or basal half gradually paler, apex of II gradually



Figs. 11–15: *Adelphocoris tibetanus* sp. n.; 11, 12 comb of vesica – 13 spicule of vesica – 14, 15: claspers.

darkened up to piceus, III & IV sometimes dark, piceous, with extreme base yellowish white. Rostrum reddish brown, segment IV black, extending to hind coxae. Pronotum with pubescence fine and concolorous, puncturation shallow, more or less transversely rugose, a narrow subbasal brown band with margins fading out, calli sometimes a little darkened. Scutellum unicoloured, weakly rugose. Costa of corium straight, pale in lateral view, embolium and exocorium pale, ochraceous, veins of clavus and corium reddish brown. Cuneus yellowish brown, apex piceus, a large inner angle spot and inner margin reddish brown. Membrane smoky black, veins dark reddish brown. Legs yellowish brown, unevenly sprinkled with small red spots. Body underside yellowish brown, brown to dull brown. Ostiolar peritreme yellow. Venter reddish brown to piceous, laterally paler, with a longitudinal stripe composed of dark spots. Structure of male genitalia: Comb of male vesica with dorsal rim concave, stalk broad, length 0.33 (fig. 6); spicule slightly curvate (fig. 8). Claspers as in figs. 9 & 10.

Measurements Body length 8.0–9.0, width 2.79–3.02, head apex to cuneal suture 5.4–5.8. Head length 1.0–1.16, width 1.25–1.30, vertex width 0.30–0.35, eye width 0.45. Antennal segments length 0.83–0.87 2.27–3.12 1.25–1.40. Rostrum length 2.83–3.00. Pronotum length 1.2–1.3, width 2.2–2.3. Corium length 4.0–4.1. cuneus length 1.2–1.3 width 0.9.

Holotype ♂, Mt. Yu-long (alt. 2700 m), Yunnan Province, China, 15. VIII. 1979, L. Y. Zheng leg. — **Paratypes** 4 ♂♂, with same locality as holotype, 12. VIII. 1979, H. G. Zou leg.

Remarks Close to *A. taeniophorus* REUTER, an endemic species of the mountainous Western China. In comparison with the latter, the new species has a more elongate body and a reddish colouration, the dark pronotal band somewhat paler; collar without black setae; scutellum unicolorous, apex and midline not paler; costa pale, concolorous with corium; endocorium unicolorous, dark, not forming a triangular dark spot as in *taeniophorus*; the light-coloured part of cuneus evenly yellowish (in *taeniophorus* the cuneus is

tan or tannish yellow surrounded by paler (yellow) rim, its inner angle without large dark spot).

***Adelphocoris tibetanus* sp. n.** (Figs. 11–15)

Ochraceous to greyish brown, sometimes with greenish tinge; with silvery sericeous pubescence, corium (except extreme basis) and clavus covered with black straight hairs. Head brown, with black straight hairs, frons with a series of parallelly arranged transverse black bands. Vertex with an „X“-shaped black mark, male vertex width = 0.93x eye width, female = 1.8x eye width. Antennae pale ochraceous, segment I, III & IV darker, II paler, gradually darkened apically. Rostrum brown, segment IV black, extending onto mesocoxae. Pronotum shiny, finely and faintly punctate, with black straight hairs, calli dark brown to black, disk of posterior lobe with or without 2 large dark brown spots. Scutellum centrally with a pair of longitudinal brown stripe, rather broad and with margins fading out, sometimes fusing each other mesally. Clavus narrowly black margined, discally dark brown. Corium with costa black, endocorium and inner angle of cuneus smoky brown, veins faintly darker, cuneus yellow or yellowish green, its extreme apex black. Membrane smoky, veins dark. Venter laterally with a series of black spots or a black stripe. Femora speckled with small irregular black spots. Structure of male genitalia: Comb of vesica small, length 0.27–0.28, stalk of comb broad (fig. 11); spicule short and blunt (fig. 13). Claspers as in figs. 14 and 15.

Measurements Body length 7.9–8.8, width 2.8, head apex to cuneal suture 5.5–5.9. Head length 1.06–1.1, width 1.16–1.2. Vertex width ♂, 0.41; ♀, 0.54. Eye width ♂, 0.43–0.45; ♀, 0.30. Antennal segments length 1.0 2.9 2.4 1.3. Rostrum length 2.7 Pronotum length 1.0, width 1.1. Corium length 3.75–4.00, cuneus length 1.1–1.35, width 0.45–0.7

Holotype ♂, Linchi County, Xizang (= Tibet), China, 29. VII. 1984, Qu-shang leg. — **Paratypes** 1 ♀ & 1 ♂, with same data as holotype. 1 ♂, Paohsing County, Szechwan Province, China, 26. VI. 1967, S. L. Liu leg.

Remarks Closely resembles to *A. lineolatus* (GOEZE) in habitus and general colour pattern, but the coloration of the new species is somewhat more dull, dark stripe of scutellum broader, its margin not so sharply delimited as in *lineolatus*, sometimes fused each other; pronotum, clavus and corium rather extensively covered with black straight hairs, vertex width/eye width ratio different (in *lineolatus* ♂ = 0.81, ♀ = 1.5). Comb of vesica smaller than in *lineolatus* and different in shape; spicule blunt (sharp in *lineolatus*).

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