

### A brief note on bugs of the genus *Alloeotomus* FIEBER from Northern China, with description of a new species (Insecta: Hemiptera: Heteroptera: Miridae)

With 12 Figures

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**Abstract.** From Northern China, *Alloeotomus montanus* spec. nov. is described and illustrated in comparison to *A. kerzhneri* QI et NONN. Including that new species, four representatives of this genus are known till now from N. China. A key to these species is added.

Till now, *Alloeotomus* FIEBER, 1858 is a small genus of Miridae. Only eight species have been known, all of which appear in Asia and Europe. Four species are known from China, all occur in the northern part of this country only. No data are recorded till now from Southern China.

#### Key to the species of genus *Alloeotomus* from N. China

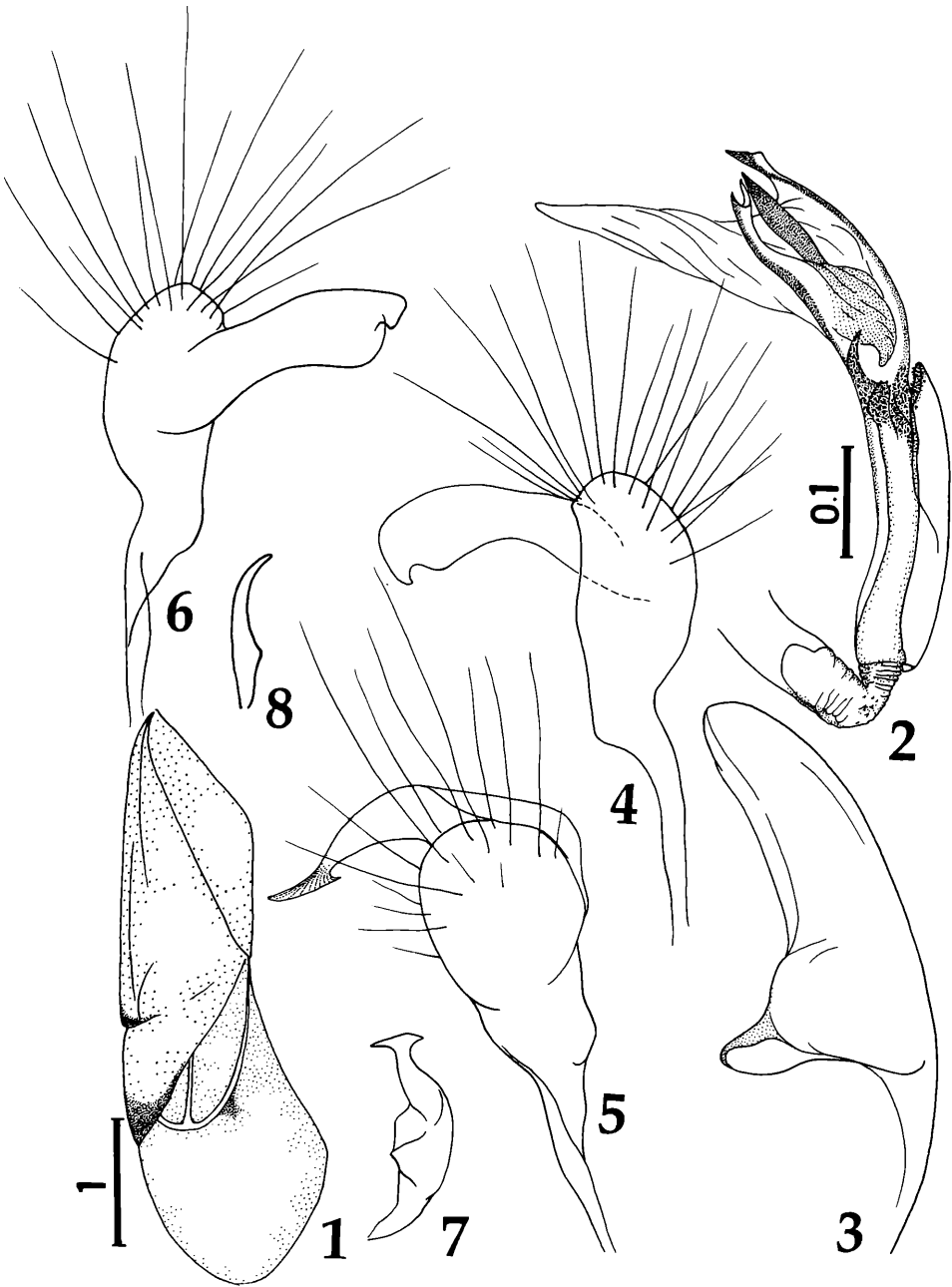
- 1(2) Disk of pronotum light brownish. Scutellum with a longitudinal light coloured stria in the middle; vesica without spicula. *A. gothicus* (FALL.)
- 2(1) Disk of pronotum and scutellum dark.
- 3(4) Callus of the pronotum light coloured. *A. chinensis* REUTER
- 4(3) Callus of the pronotum black.
- 5(6) Body elongate ovate, body length : width = 2.73 1 (♂). Upper side of head black. Cuneus length 0.9 mm, its apex dark brown. External margin of tibia black. Membraneous lobe of vesica short, cone-shaped, with a sword-like spicula and two sclerotized processes which are the continuation of the membraneous lobe. Apical part of hypophysis of left paramere robust, sensory lobe small, with very long hairs (Figs. 1–8). *A. montanus* spec. nov.
- 6(5) Body ovate, body length : width = 2.47 1 (♂), flatter. Upper side of head brown. Cuneus length 0.70 mm. External margin of tibia with two longitudinal dark coloured striae. Membraneous lobe of vesica very long, cone-shaped, with a thick spine-like spicula with slender and sharp apex, two lateral membraneous lobes short, cone-shaped, each with a sclerotized band but not processed. Apical part of hypophysis of left paramere slender, sensory lobe large with relatively shorter hairs (Figs. 9–12). *A. kerzhneri* QI et NONN.

#### Brief notes on the species

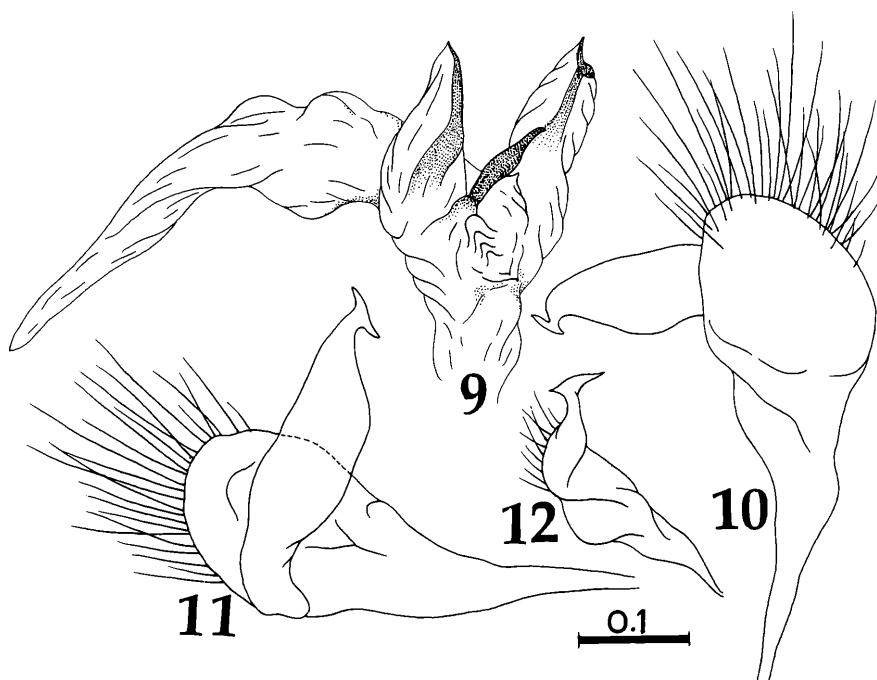
##### *Alloeotomus gothicus* (FALLÉN, 1807)

The first report of its distribution in China was given by QI & NONNAIZAB (1994).

Distribution in China: Chifeng city, Inner Mongolian Autonomous Region.



Figs. 1–8: *Alloeotomus montanus* spec. nov., ♂.  
1 – hemelytra; 2 – vesica; 3 – phallosome; 4–6 – left paramere (4 – dorsal view; 5 – side view; 6 – ventral view); 7 – right paramere; 8 – claw. (Units of the scale bars: mm)



Figs. 9–12: *Alloeotomus kerzhneri* QI et NONNAIZAB, ♂  
9 – vesica; 10–11 – left paramere (10 – dorsal view; 11 – ventral view); 12 – right paramere. (Units of the scale bars: mm)

*Alloeotomus chinensis* REUTER, 1904

In KERZHNER's monography (1988), there was given the distribution of this species as "China", only WU (1935) reported its distribution in Beijing (Peiping). The authors have not found this species in China up to now.

*Alloeotomus montanus* spec. nov. (Figs. 1–8)

Male: Elongated ovate, head, pronotum and scutellum dark brown, resting part of the body brown. Front convex, brilliant, with unremarkable ridge at posterior margin. Compound eyes dark brown, its surface granulated. Antennae dark brown, with suberect hairs which are longer than the thickness of every segments except the 1st one. Collar dark brown, somewhat dull by existence of the very short pubescence. Pronotum convex, brilliant, with remarkable darkened punctuation, calli of the pronotum linked and convex, black and brilliant, middle of their posterior margin with a big and deep puncture. Posterior margin of the pronotum light yellowish green reaching to both lateral angles. Scutellum black, brilliant, with remarkable punctations, its apical part yellowish green. Hemelytra brownish, convex, brilliant, with unremarkable uniform black punctations. Anterior margin of corium almost straight, apical angle dark brown, cuneus longer,  $\frac{1}{3}$  apically dark brown, membrane dark grey, veins dark brown, with a dark mark apically outside of the larger cell. Rostrum dark brown, its apex reaches between posterior coxa. Legs dull brown, femora with irregular dark brownish spots, tibia with suberect setae longer than its thickness, external margin dark brown, only with a rectangular light mark on its basal part,  $\frac{1}{3}$  in the middle and apex dark brown on lateral aspect, tarsus and claws dark brown. Ventral side of thorax and abdomen black, only posterior margin and internal part of anterior margin of ostiola light yellowish green. Vesica with a longer and thicker spicula, parameres as Figs. 4–7.

Female: Almost the same as the male, but body shorter and broader. Vertex and sides of front slightly light, 2nd antennal segment slender and shorter. Pronotum and scutellum slightly light, anterior margin of hemelytra convex, its apical angle and apex of cuneus light coloured. Ventral side dark reddish brown.

Measurements: Body length ♂, 5.63 mm, ♀, 4.95 mm; width ♂, 2.06 mm, ♀, 2.10–2.25 mm; pronotum length ♂, 0.90 mm, ♀, 0.83 mm, width ♂, 1.73 mm, ♀, 1.68 mm; hemelytra length ♂, 4.73 mm, ♀, 3.75 mm; corium length ♂, 2.55 mm, ♀, 2.25 mm; cuneus length ♂, 0.90 mm, ♀, 0.75 mm; antennal segments ♂, I II III IV = 0.45 1.54 0.60 0.53 mm, ♀, 0.41 1.31 0.63 0.60 mm.

Remarks: This new species is similar to *A. gothicus* (FALLÉN, 1807) and *A. kerzhneri* QI et NONNAIZAB, 1994. But the species easily could be recognized by the following characters: body more convex, narrower and elongated; antenna, upper side of head, pronotum and scutellum dark brown; cuneus larger and longer; external side of femora dark brown; spicula of vesica longer and sword-like; different paramere.

Holotype ♂, paratypes 1 ♂, 6 ♀♀, Huhe-hot (Dalanhara Mt., 2000 m), Inner Mongolian Autonomous Region, 8. X. 1992, QI BAO-YING leg. – The type specimens are deposited in the collection of Biological Faculty, Inner Mongolia Teacher's University, Huhe-hot, P. R. China.

*Alloeotomus kerzhneri* QI et NONNAIZAB, 1994 (Figs. 9–12)

This species inhabits Huhe-hot, Inner Mongolia Autonomous Region.

## References

- CARVALHO, J.C.M. (1955): Key to the genera of Miridae of the world (Hemiptera). – Bol. Mus. Goeldi **11** (2): 1–151.  
 – (1957): A catalogue of the Miridae of the world. Part I. – Arquivos do Museu Nacional, Rio de Janeiro, **44**: 53–54.  
 KERZHNER, I.M. (1964): Key to insects of the European Part of the USSR, I: 714.  
 – (1987): New Heteroptera from the Far East of the USSR: 37–39.  
 – (1988): Key to insects of the Far East of the USSR, II: 794.  
 JOSIFOV, M. & I.M. KERZHNER (1972): Heteroptera aus Korea, Teil I (Ochtheridae, Gerridae, Saldidae, Nabidae, Anthocoridae, Miridae, Tingidae und Reduviidae). – Ann. Zool. **29** (6): 7–9.  
 QI BAOYING & NONNAIZAB (1994): New and newly recorded species of Deraeocorinae from Inner Mongolia, China (Hemiptera: Heteroptera: Miridae). – Acta Zootaxonomica Sinica **19**, No. 4: 458–464.  
 STICHEL, W. (1961): Illustrierte Bestimmungstabellen der Wanzen, II, Europa: Miridae, 2 (7): 194–196.  
 WAGNER, E. & H.H. WEBER (1964): Faune de France **67**, Hemiptera, Miridae: 52–54. Paris.  
 WU, C.F. (1935): Catalogus Insectorum Sinensium II, Hemiptera: 517.

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