Shi, Y. (1995): Notes on the Chinese species of the genus Xenomyza Wiedemann (Diptera: Asilidae). - *Sinozoologia 12: 259-269; ?.

English translation by Dr. Yuji Tagawa (2006)

13 (12) Sternites not as above.

Key to Chinese species of Xenomyza Wiedemann

1 (2) Male: mesonotum strongly ridged on the dorsal central region which extends over the vertex of head and with four cornerlike projections at apex. The anterior half of lateral sides of thorax depressed as furrows, clothed with dense yellow hairs on the insides and dense black hairs on the outer margins, posterior half of thorax with four rows of yellow-hair bands dorsally. The vertex with oval projection bearing yellow hairs laterally. Occiput with cornerlike projection behind every eye; midtibia thickened at apex, with 3 thick balck bristles, midtarsus slender and longer than those of others, with short brushlike yellow hairs ventrally. Female not as males character, but with thoracical four rows of yellow-hair bands.
2 (1) Not as the above.
3 (4) Anterior margin of male wing dilated forward strongly, and bearing black long hairs on it; Female wing not dilated. Legs black. Fore and mid femora with pale yellow hairs ventrally. Hind femora especially thickened with tufty black long hairs ventrally. X. hirtalula Shi
4 (3) Anterior margin of male wing not dilated strongly.
5 (10) Abdomen cylindrical, not flattened.
6 (9) Hind trochanter covered with yellow hairs ventrally. Hind femora black, basally reddish yellow.
7 (8) Mesonotum with a row of acrostichal bristles. Hind trochanter without a coniform projection ventrally. Face clothed with sparse yellow hairs. Hypandrium not shining, black
8 (7) Mesonotum without acrostichal bristles. Hind trochanters with coni-form projection ventrally. Face clothed with sparse short black hairs. Hypandrium shining black. X. conica Shi
9 (6) Hind trochanters covered with black bristles ventrally. Hind femora reddish yellow. Mystax black, 15 in number. Mesonotum with acrostichal bristles. Hypandrium shining, black. Epandrium pincerslike, with a clawlike projection at apex. X. nigriscoms Shi
10 (5) Abdomen flattened.
11 (20) Mesonotum with black longitudinal stripe.
12 (13) Sternite 3 - 7 with a black spot at both lateral sides of each segment, and spots arranged in a row. X. speculiventris (De Meijere)
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Shi, Y. (1995): Study on the Chinese species of the family Asilidae (Diptera: Asilidae). - *Sinozoologia 12: 253-258; ?.

English translation by Dr. Yuji Tagawa (2006)

Study on the Chinese species of the family Asilidae
(Diptera: Asilidae)
Shi Yongshan

(Institute of Zoology, Academia Sinica, Beijing, China 100080)

key to species of Chinese Ancylorrhnchus

- 2 (1). Postpedicel more than 5 times as long as scape and pedicel combined. Wing smoky brown. Abdomen red-yellow. Tergite 2 with yellow band. Legs entirely black.

Shi, Y. (1992): Notes on the genus Trichomachimus Engel from China (Diptera: Asilidae). - Acta Zootaxonomica Sinica 17(4): 458-472; Beijing.

English translation by Dr. Yuji Tagawa (2006)

Notes on the genus Trichomachimus Engel from China
(Diptera: Asilidae)
Shi Yongshan
(Institute of Zoology, Academia Sinica, Beijing, China)

1		
kev	to	species

- 2 (1). Legs entirely black, or tibia and tarsus yellow at most.
- 3 (16). Legs entirely black
- 5 (4). Sternite 8 not extended posteriorly.
- 6 (9). Sternites with yellow hair.

8 (7). Mesonotum with black hair. Terminalia black with yellow hair <i>Tr. nigrus</i> Shi
9 (6). Sternites with black hair, sometimes mingled with yellow hair.
10(11). Postpronotal lobe with gold-yellow tomentum. Mesonotum with distinct pollinose markings
11 (10). Postpronotal lobe covered with white pollen. Mesonotal markings indistinct.
12 (15). Pleura and anatergite with black hair.
13 (14). Mesonotum with black long hair on anterior 2/3, white hair bent posteriorly on posterior 1/3. Tergites 1-2 with long pale yellow hair, dense on posterior margin, tergites 3-5 with long, fine reddish hair, tergites 7-8 with long yellow hair
14(13). Mesonotum with short black hair, and long, fine black hair bent posteriorly. Tergites 1-4 with recumbent black hair, tergites 6-7 with short sparse pale yellow hair
15 (12). Pleura and anatergite with pale yellow pubescence. Scutellum with yellow marginal bristles and yellow hair on disk
16(3). Tibia and tarsus red-yellow.
17 (26). Sternites with black hair.
18 (21). Posterior margins of tergite 2-8 with recumbent gold-yellow hair.
19 (20). Epandrium narrow and excised apically. Scutellum with yellow marginal bristles. Mesonotum with yellow bristles
20(19). Epandrium wide and rounded apically. Scutellum with black marginal bristles. Mesonotum with black hair and bristles. Aedeagus trifid with oblique apices

obliquus sp. n.
21(18). Tergites with deep red hair.
22 (25). Scutellum with black marginal bristls.
23 (24). Scutellum with black hair on disk. Facial tubercle mainly with yellow hair. Aedeagus thick basaly, thin apically
24(23). Scutellum with yellow hair on disk. Facial tubercle mainly with black hair
25 (22). Scutellum with yellow and black bristles. Facial tubercle mainly with balck hair. Mesonotum with black hair and bristles
26(17). Sternites with pale yellow hair or mingled with yellow and black long hair.
27(28). Mesonotum with black hair behind suture. Scutellum with black hair on disk and black marginal bristles mingled with yellow ones. Aedeagus slender, tri-pronged basaly
28(27). Mesonotum with yellow hair, or mingled with yellow and black hair behind suture.
29 (30). Scutellum with yellow hair on disk and yellow marginal bristles. Aedeagus slender with cylindrical apex
30(29). Scutellum with yellow and black hair on disk, yellow marginal bristles. Aedeagus not separate

Shi, Y. (1992): Notes on the Chinese species of the genus Trigonomima Enderlein (Diptera: Asilidae). - *Sinozoologia 9: 339-343; ?.

English translation by Dr. Yuji Tagawa (2006)

Notes on the Chinese species of the genus Trigonomima Enderlein (Diptera: Asilidae) Shi Yongshan

(Institute of Zoology, Academia Sinica, Beijing, China)

key to species
1 (2). Palpi with yellow hair. Mesopleura with yellow and black long hair <i>Tr</i> pennipes (Hermann)
2 (1). Palpi with black hair. Hair of mesopleura single color
3 (6). Anal cell closed and stalked
4 (5). Mesonotum with thick silver-white tomentum on anterior 3/5, black-brown tomentum or posterior 2/5. Mesopleura with white hair. Scutellum with 3 bristly hairs on disk
5 (4). Thorax with grey tomentum. Mesopleura with yellow hair. Scutellum with 2 bristly hairs on disk
6 (3). Anal cell open at wing margin. Mesonotum strongly humped. Head positioned ventrally

Shi, Y. (1995): Notes on the genus Clephydroneura Becker from China (Diptera: Asilidae). - *Sinozoologia 12: 270-280; ?.

English translation by Dr. Yuji Tagawa (2006)

Notes on the genus Clephydroneura Becker from China (Diptera: Asilidae) Shi Yongshan

(Institute of Zoology, Academia Sinica, Beijing, China 100080)

key to species
1. Anatergite with black hair 2
Anatergite with yellow hair 6
2. Scutellum with 2 black marginal bristles. Male sternite 8 not extended. Aedeagus flared.
Gonostylus and lower forceps pale yellow
Scutellum without marginal bristles 3
3. Occipital bristles intermingled with black. Male sternite 8 not extended. Epandrium wide and
long, rounded apically. Aedeagus and gonostylus red-brown. Lower forcep black
Cl. trifissura sp. n.
Occipital bristles yellow 4
4. Epandrium slender, curved and hooked apically
Epandrium wide and long, without hooked apex 5
5. Pronotum yellow. Antenna yellow; length of scape 1.5 times as long as pedicel. Epandrium yellow, punctate ventrally with a individual pit yellow hair
Proportion black Antennal scape and postpedicel vellow pedicel black: length of scape 2 times

Pronotum black. Antennal scape and postpedicel yellow, pedicel black; length of scape 2 times - 1/3 -

as long as pedicel. Epandrium black with black hair.
6. Antenna black; length of scape 2.5 times as long as pedicel. Aedeagus needle-like. Gonostylus and lower forceps black
Scape and pedicel yellow. Length of scape 2 times as long as pedicel
7. Anterior margin of wing not expanded 8
Anterior margin of wing strongly expanded forward
8. Scutellum with 2 marginal bristles. Aedeagus half as long as epandrium. Epandrium narrow basally and wide apically
Scutellum without marginal bristles. Aedeagus two thirds as long as epandrium. Epandrium not narrow basally9
9. Epandrium slender with 2 teeth-like projections apically. Male sternite 8 prolonged tongue-like, with dense yellow hair
Epandrium without apical projection 10
10. Wing veins covered with tomentum. Tergites with black hair. Male sternite 8 prolonged with yellow hair apically
Wing veins without tomentum. Tergites with yellow hair. Male sternite 8 not extended
11. Thorax yellow with two black longitudinal dorsal stripes
Thorax yellow dorsally, with or without a black longitudinal stripe or not
12. Scape and pedicel black. Thorax entirely yellow

Scape and pedical yellow.	Thorax yellow dors	sally with a long	gitudinal stripe .	Cl.
xanthopa (Wiedemann)				