



## Revision of the genus *Oxyscelio* Kieffer (Hymenoptera, Scelionidae) from China

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### Abstract

The genus *Oxyscelio* Kieffer from China is revised. Thirty-four species are recognized, of which two species are described as new: *O. nullicarina* Mo & Chen, **sp. n.**, *O. paracuculli* Mo & Chen, **sp. n.**, and fourteen species are newly recorded from China: *O. aclavae* Burks, *O. arcus* Burks, *O. brevidentis* Burks, *O. excavatus* (Kieffer), *O. flabelli* Burks, *O. jaune* Burks, *O. kiefferi* Dodd, *O. labis* Burks, *O. mesiodentis* Burks, *O. mollitia* Burks, *O. nasolabii* Burks, *O. nubbin* Burks, *O. ogive* Burks, and *O. reflectens* Burks. Keys to the Chinese species are provided.

**Key words:** Platygastridae, egg parasitoid, key, new species, new distribution record

### Introduction

The genus *Oxyscelio* Kieffer is a diverse group of parasitoids attacking the eggs of Orthoptera (Kononova and Furssov 2007), comprising 184 species worldwide (Burks *et al.* 2013a, 2013b, 2016). Burks *et al.* (2013a) recognized 90 species from the Indo-Malayan and Palearctic regions. Subsequently, Johnson *et al.* (2013) reported eighteen species from China based on the specimens housed in the Hymenoptera Collection of South China Agricultural University (Guangzhou), indicating that the Chinese fauna of *Oxyscelio* is rich. The goal of this work is to produce a systematic revision of the Chinese species of *Oxyscelio*, expand the biogeographic data associated with these species, and provide keys to the Chinese species. The contributions of the authors are as follows. W.-h Mo, H.-y. Chen, and N.F. Johnson: species concept development, imaging, key development, manuscript preparation; H. Pang, L. Ma, and J.-x. Liu: key development, imaging, manuscript preparation.

### Materials and methods

This work is based upon the specimens in the following collections, with abbreviations used in the text: **SCAU**, Hymenoptera Collection, South China Agricultural University, Guangzhou, China; **SYSBM**, Sun Yat-sen University, The Museum of Biology, Guangzhou, China.

Abbreviations and morphological terms used in text: **A1, A2, ... A12**: antennomere 1, 2, ... 12; **T1, T2, ... T7**: metasomal tergite 1, 2, ... 7. Morphological terminology otherwise generally follows Masner (1980), Mikó *et al.* (2007) and Burks *et al.* (2013a).

In the Material Examined section, the specimens studied are recorded in an abbreviated format, using unique

identifiers (numbers prefixed with “SCAU”) for the individual specimens. The label data of all specimens have been georeferenced and recorded in the Hymenoptera Online database, and details on the data associated with these specimens can be accessed at the following link, [mbd-s.asc.ohio-state.edu](http://mbd-s.asc.ohio-state.edu), and entering the identifier in the form (note the space between the acronym and the number).

Data associated with the genus *Oxyscelio* can be accessed at <https://hol.osu.edu/index.html?id=529>. The species descriptions were generated by a database application, vSysLab ([vsyslab.osu.edu](http://vsyslab.osu.edu)), designed to facilitate the production of taxon by character data matrices, and to integrate those data with the existing taxonomic and specimen-level database. Data may be exported in both text format and as input files for other applications. The text output for descriptions is in the format of “Character: Character state (s)”. Polymorphic characters are indicated by semicolon-separated character states.

Images and measurements were made using Nikon SMZ25 microscope with a Nikon DS-Ri 2 digital camera system, or Combine ZP and AutoMontage extended-focus software, using a JVC KY-F75U digital camera, Leica Z16 APOA microscope, and 0.5 × objective lens. Images were post-processed with Adobe Photoshop CS6 Extended.

## Taxonomy

### *Oxyscelio* Kieffer

<http://zoobank.org/99E3E72E-DA88-4740-9ECB-2D03BCD1DACE>

<http://species-id.net/wiki/Oxyscelio>

*Oxyscelio* Kieffer, 1907: 310. Original description. Type: *Oxyscelio foveatus* Kieffer, by monotypy; Brues 1908: 46 (diagnosis, list of species); Kieffer 1910b: 62, 68 (description, key to subgenera, keyed); Kieffer 1913a: 224 (description); Kieffer 1926: 261, 267 (description, keyed, key to species); Dodd 1931: 72 (diagnosis, synonymy, list of species, key to related groups); Mani 1941: 25 (catalog of species of India); Muesebeck and Walkley 1956: 377 (citation of type species); Masner 1976: 22, 25 (description, keys to separate *Baryconus* Foerster, *Bacalba* Dodd, *Chromoteleia* Ashmead, *Oxyscelio* Kieffer); De Santis 1980: 311 (catalog of species of Brazil); Galloway and Austin 1984: 7, 8, 13 (list of species described from Australia, keyed); Johnson 1992: 451 (catalog of world species); Austin and Field 1997: 18, 68 (structure of ovipositor system, discussion of phylogenetic relationships, genus misplaced in Baryconini); Lê 2000: 32, 39 (keyed, description); Rajmohana 2006: 116 (keyed); Kononova and Fursov 2007: 61 (description); Kononova and Fursov 2007: 103 (description); Kononova and Kozlov 2008: 21, 190 (description, keyed, key to species of Palearctic region); Burks *et al.* 2013a: 9, 19 (description, description of species group, key to species of Palearctic and Indo-Malayan regions); Burks *et al.* 2013b: 10, 12, 22 (description, description of species groups, key to Australian and Oceanic species); Burks *et al.* 2016: 32, 33, 34, 35 (synonymy, phylogenetic analysis of relationships among species, description of bicolor group, description of crateris group, description of cuculli group, key to species of African region).

*Dicroteleia* Kieffer, 1908: 92. Original description. Type: *Dicroteleia rugosa* Kieffer, by monotypy. Synonymized by Dodd (1931); Kieffer 1926: 267, 387 (description, keyed, key to species); Mani 1941: 25 (catalog of species of India); Muesebeck and Walkley 1956: 346 (citation of type species); Baltazar 1966: 179 (catalog of species of the Philippines).

*Chromoteleia* (*Oxyscelio*): Kieffer 1910a: 312 (key to species, keyed); Kieffer 1910b: 68, 69 (description, list of species, keyed).

*Oxyscelio* (*Dicroteleia*): Kieffer 1910b: 68 (description, list of species, keyed).

*Camptoteleia* Kieffer, 1913b: 387. Original description. Type: *Camptoteleia carinata* Kieffer, designated by Kieffer (1926) (key to species of the Philippines). Synonymized by Dodd (1931); Kieffer 1914: 296 (key to species of the Philippines); Kieffer 1916: 64, 171 (key to new species described from the Philippines); Kieffer 1926: 267, 379 (description, keyed, key to species); Baltazar 1966: 177 (catalog of species of the Philippines).

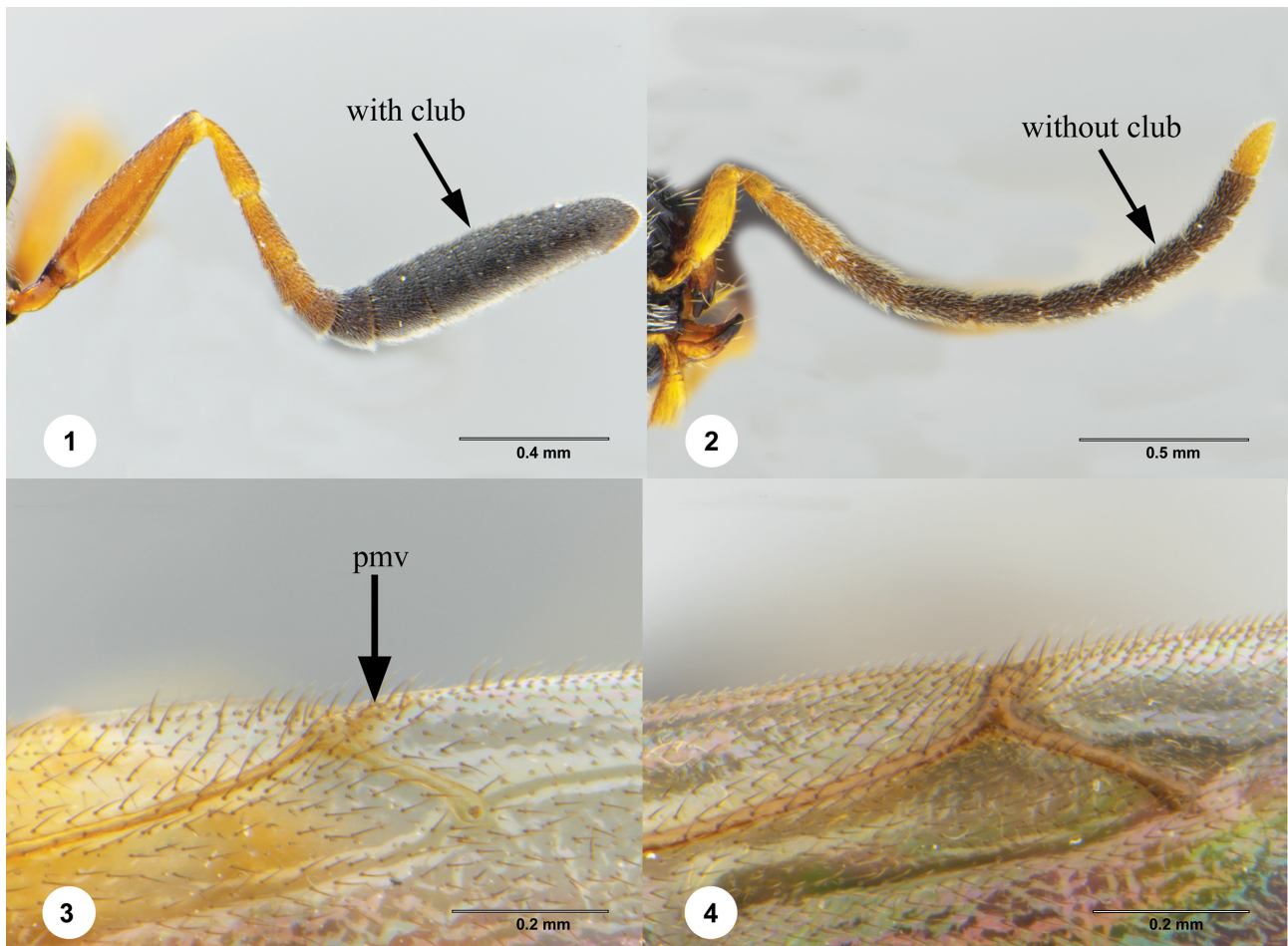
*Xenoteleia* Kieffer, 1913b: 390. Original description. Type: *Xenoteleia flavipennis* Kieffer, by monotypy and original designation. Synonymized by Dodd (1931); Kieffer 1926: 270, 427 (description, keyed); Muesebeck and Walkley 1956: 408 (citation of type species); Baltazar 1966: 181 (catalog of species of the Philippines).

**Diagnosis.** Frontal depression on the head variable: many species can be recognized by the pronounced frontal depression on the head which is often rimmed by a carina (Fig. 6), while in some species it is only moderately impressed and margined only in its upper arc (Fig. 5) or almost absent and faintly indicated by weak rim around the arc. Mandible bidentate. Skaphion never developed. Median carina on mesoscutum usually complete (Fig. 11) but is absent (Fig. 13) in a few species. Metascutellum distinct, usually excavate dorsally (Fig. 12) and emarginated apically, but flat (Fig. 14) and nearly semicircular in some species. Fore wing submarginal vein distant from wing margin (Figs 3, 4), marginal vein very short (Figs 3, 4), postmarginal vein usually absent (Fig. 4), if present then much shorter than stigmal vein (Fig. 3). A detailed generic description of *Oxyscelio* can be found in Burks *et al.* (2013a).



**TABLE 1.** An updated list of the Chinese species of *Oxyscelio* with distribution in China. An asterisk (\*) indicates the species is newly recorded from China.

Species	Distribution in China	
	Province	Ecozone
* <i>Oxyscelio aclavae</i> Burks	Hainan	Oriental
* <i>Oxyscelio arcus</i> Burks	Fujian	Oriental
<i>Oxyscelio arvi</i> Burks	Guangdong, Sichuan, Zhejiang	Oriental
* <i>Oxyscelio brevidentis</i> Burks	Hainan, Yunnan	Oriental
<i>Oxyscelio ceylonensis</i> (Dodd)	Guangdong	Oriental
<i>Oxyscelio convergens</i> Burks	Guangdong, Hainan, Taiwan, Zhejiang	Oriental
	Hebei	Palaeartic
<i>Oxyscelio cordis</i> Burks	Yunnan	Oriental
<i>Oxyscelio crebritas</i> Burks	Hainan, Taiwan	Oriental:
<i>Oxyscelio cuculli</i> Burks	Hainan, Yunnan, Zhejiang	Oriental
	Hebei	Palaeartic
<i>Oxyscelio dermatoglyphes</i> Burks	Hainan, Zhejiang	Oriental
<i>Oxyscelio doumao</i> Burks	Guangdong, Guangxi, Zhejiang	Oriental
	Shaanxi	Palaeartic
* <i>Oxyscelio excavatus</i> (Kieffer)	Hainan, Zhejiang	Oriental
* <i>Oxyscelio flabelli</i> Burks	Yunnan	Oriental
<i>Oxyscelio florus</i> Kononova	Guangdong, Hunan, Zhejiang	Oriental
	Hebei	Palaeartic
<i>Oxyscelio granorum</i> Burks	Hainan, Yunnan, Zhejiang	Oriental
	Shaanxi	Palaeartic
<i>Oxyscelio intermedietas</i> Burks	Guangdong, Hainan, Yunnan, Zhejiang	Oriental
	Hebei, Shaanxi	Palaeartic
* <i>Oxyscelio jaune</i> Burks	Guangdong	Oriental
<i>Oxyscelio jugi</i> Burks	Guangdong, Hainan, Yunnan.	Oriental
* <i>Oxyscelio kiefferi</i> Dodd	Yunnan	Oriental
<i>Oxyscelio kramatos</i> Burks	Guangdong, Guangxi, Zhejiang, Yunnan	Oriental
* <i>Oxyscelio labis</i> Burks	Yunnan	Oriental
<i>Oxyscelio longiventris</i> Burks	Guangdong, Zhejiang	Oriental
* <i>Oxyscelio mesiodentis</i> Burks	Hainan	Oriental
* <i>Oxyscelio mollitia</i> Burks	Guangdong, Yunnan, Zhejiang	Oriental
<i>Oxyscelio naraws</i> Kozlov & Lê	Guangdong, Zhejiang	Oriental
* <i>Oxyscelio nasolabii</i> Burks	Zhejiang	Oriental
* <i>Oxyscelio nubbin</i> Burks	Yunnan	Oriental
* <i>Oxyscelio nullicarina</i> Mo & Chen, <b>sp. n.</b>	Guangdong, Hainan, Zhejiang	Oriental
* <i>Oxyscelio ogive</i> Burks	Yunnan	Oriental
* <i>Oxyscelio paracuculli</i> Mo & Chen, <b>sp. n.</b>	Yunnan	Oriental
<i>Oxyscelio perpensus</i> Kononova	Zhejiang	Oriental
	Hebei	Palaeartic
<i>Oxyscelio planocarinae</i> Burks	Zhejiang	Oriental
* <i>Oxyscelio reflectens</i> Burks	Yunnan	Oriental
<i>Oxyscelio striarum</i> Burks	Hainan	Oriental



**FIGURES 1–4.** Antenna 1–2 Antenna 1 *Oxyscelio intermedietas* Burks, female (SCAU 3013743) 2 *Oxyscelio aclavae* Burks, female (SCAU 3018681) 3–4 Fore wing 3 *Oxyscelio nullicarina* Mo & Chen, **sp. n.**, paratype, female (SCAU 200905875), pmv: postmarginal vein 4 *Oxyscelio paracuculli* Mo & Chen, **sp. n.**, holotype, female (SCAU 3040670).

### Key to species of *Oxyscelio* from China

Females (Unknown for *O. excavatus*)

- |   |  |   |
|---|--|---|
| 1 | Metascutellum setose dorsally (Figs 23, 35, 89, 185, 221) .....  | 2   |
| - | Metascutellum not setose dorsally (Figs 12, 14, 17, 29, 45, 55, 65, 75, 103, 109, 119, 129, 139, 145, 155, 165, 175, 191, 201, 211, 231, 237, 243, 249, 255, 265).....                   | 7   |
| 2 | Middle genal carina present (Figs 7, 24, 36, 186) .....  | 3   |
| - | Middle genal carina absent (Figs 8, 90, 222) .....   | 6   |
| 3 | Frontal depression without transverse or oblique carinae; gena without granulate sculpture posteroventrally (Figs 36, 186) ..  | 4   |
| - | Frontal depression with 3 or more broadly interrupted transverse carinae; gena with granulate sculpture posteroventrally (Fig. 24) .....   | 5   |
| 4 | Malar area near antennal insertion without carina or expansion; lateral propodeal carinae strongly diverging medially (Fig. 35) .....  | <i>Oxyscelio brevidentis</i> Burks                    |
| - | Malar area near antennal insertion with vertical carina extending from clypeus towards frontal depression (Fig. 6); lateral propodeal carinae weakly diverging medially (Fig. 185) ..... | <i>Oxyscelio mesiodentis</i> Burks                    |
| 5 | Mesoscutal midlobe umbilicate-punctate anteriorly (Fig. 23); mesoscutellum without granulate sculpture (Fig. 23) .....   | <i>Oxyscelio arcus</i> Burks                          |
| - | Mesoscutal midlobe umbilicate-foveate anteriorly (Fig. 95 in Burks <i>et al.</i> 2013a); mesoscutellum with granulate sculpture (Fig. 97 in Burks <i>et al.</i> 2013a) .....             | <i>Oxyscelio ceylonensis</i> (Dodd)                   |
| 6 | Mesosoma and metasoma black (Fig. 87); mesoscutum umbilicate-foveate posteriorly (Fig. 89) ..  | <i>Oxyscelio doumao</i> Burks                         |
| - | Mesosoma and metasoma yellowish (Fig. 219); mesoscutum transversely rugose posteriorly (Fig. 221) .....  | <i>Oxyscelio nullicarina</i> Mo & Chen, <b>sp. n.</b> |
| 7 | Hyperoccipital carina indicated by a sharp carina but not connected to occipital carina laterally (Figs 45, 75, 119, 129, 165,   |   |

	237).....	8
-	Hyperoccipital carina absent, indicated by one or more rounded rugae, or connected to occipital carina laterally (Figs 21, 29, 55, 65, 103, 109, 139, 145, 155, 175, 191, 201, 211, 231, 243, 249, 255, 265).....	14
8	Ventral frons with oblique flange between antennal foramen and eye (Fig. 347 in Burks <i>et al.</i> 2013a).....	<i>Oxyscelio nubbin</i> Burks
-	Ventral frons without oblique flange between antennal foramen and eye (Figs 47, 77, 121, 131, 167, 239).....	9
9	Upper frons hood-like, protruding over pedicel when antenna at rest (Figs 47, 77, 121, 239).....	10
-	Upper frons not hood-like (Figs 131, 167).....	13
10	A5 longer than broad (Fig. 43); mesosoma and metasoma yellowish (Fig. 43); metascutellum narrowing apically, with posterolateral corners slightly convergent (Fig. 45).....	<i>Oxyscelio convergens</i> Burks
-	A5 broader than long (Figs 74, 144, 236); mesosoma and metasoma entirely black (Figs 73, 117, 235); metascutellum not narrowing apically, posterolateral corners not convergent (Figs 75, 119, 237).....	11
11	Mesoscutum and mesoscutellum with strong granulate microsculpture (Fig. 119).....	<i>Oxyscelio granorum</i> Burks
-	Mesoscutum and mesoscutellum without granulate microsculpture (Figs 75, 237).....	12
12	A4 broader than long (Fig. 74); radicle, scape and legs yellowish (Figs 74, 77); postmarginal vein present (Fig. 78).....	<i>Oxyscelio cuculli</i> Burks
-	A4 longer than broad (Fig. 236); radicle, scape and legs blackish (Fig. 236); postmarginal vein absent (Fig. 240).....	<i>Oxyscelio paracuculli</i> Mo & Chen, sp. n.
13	A4 broader than long (Fig. 128); metascutellum deeply divided apically (Fig. 129).....	<i>Oxyscelio intermedietas</i> Burks
-	A4 longer than broad (Fig. 163); metascutellum truncate apically (Fig. 165).....	<i>Oxyscelio kramatos</i> Burks
14	Ventral frons with oblique carina or tooth-like flange between antennal foramen and eye (Fig. 5).....	15
-	Ventral frons without oblique carina or tooth-like flange between antennal foramen and eye (Fig. 57).....	16
15	Antennal clava filiform (Fig. 2); mesoscutal median carina present and complete (Fig. 17).....	<i>Oxyscelio aclavae</i> Burks
-	Antennal clava clubbed, with clavomeres closely connected. (Fig. 210); mesoscutal median carina absent or weak and incomplete in places (Fig. 211).....	<i>Oxyscelio nasolabii</i> Burks
16	In dorsal view, occipital carina with sharp, protruding lateral corners (Figs 55, 103, 201, 231, 243, 249, 265).....	17
-	In dorsal view, occipital carina rounded laterally, without lateral corners (Figs 29, 65, 83, 109, 145, 155, 191, 255).....	24
17	Mesoscutellar rim medially sharply incised (Fig. 12).....	<i>Oxyscelio cordis</i> Burks
-	Mesoscutellar rim apically convex, straight or broadly concave posteriorly, but rim not incised (Figs 103, 175, 201, 231, 243, 249, 265).....	18
18	Occipital carina medially flat, with sharp dorsolateral corner, distinctly indicated throughout (Fig. 249).....	<i>Oxyscelio planocarinae</i> Burks
-	Occipital carina absent or convex medially (Figs 103, 175, 201, 231, 243, 265).....	19
19	Metascutellum distinctly wider than long (Figs 103, 243, 265).....	20
-	Metascutellum about as long as wide or distinctly longer than wide (Figs 175, 201, 231).....	22
20	T2 with a raised, setose and triangular anteromedian area present between two sets of strong, curved and parallel sublateral striae (Fig. 268).....	<i>Oxyscelio striarum</i> Burks
-	T2 with weaker longitudinal rugae or striae, with interstitial setae, and with no raised triangular area medially (Figs 106, 246).....	21
21	Mesoscutal median carina present and complete (Fig. 103); metascutellum truncate apically (Fig. 103).....	<i>Oxyscelio flabelli</i> Burks
-	Mesoscutal median carina absent or weak and incomplete in places (Fig. 243); metascutellum with a median incision apically (Fig. 243).....	<i>Oxyscelio perpensus</i> Kononova
22	Mesoscutellum with a strong median carina (Fig. 231); fore wing not extending beyond T5 (Fig. 230).....	<i>Oxyscelio ogive</i> Burks
-	Mesoscutellum without a strong median carina (Figs 175, 201); fore wing extending beyond middle of T6 (Figs 174, 200).....	23
23	Middle genal carina strong, with two strong carinae below (Fig. 176); postmarginal vein present (Fig. 178).....	<i>Oxyscelio labis</i> Burks
-	Middle genal carina weakly indicated, without carinae below (Fig. 202); postmarginal vein absent (Fig. 199).....	<i>Oxyscelio naraws</i> Kozlov & Lê
24	Metascutellum nearly flat and with some rugae or weak irregular sculpture medially, without transverse carinae (Figs 29, 109, 139).....	25
-	Metascutellum concave, smooth medially or with one or more sharp transverse carinae (Figs 65, 155, 145, 191, 255).....	28
25	Mesoscutellum with granulate sculpture (Fig. 29).....	<i>Oxyscelio arvi</i> Burks
-	Mesoscutellum without granulate sculpture (Figs 109, 139).....	26
26	Upper frons without additional carinae parallel to submedian carina (Fig. 141).....	<i>Oxyscelio jaune</i> Burks
-	Upper frons with one or more carinae parallel to submedian carina.....	27
27	Fore wing extending at least to apex of T5; mesoscutellum without median carina.....	<i>Oxyscelio dermatoglyphes</i> Burks
-	Fore wing not extending beyond middle of T5 (Fig. 108); mesoscutellum with median carina (Fig. 109).....	<i>Oxyscelio florus</i> Kononova
28	Mesoscutellum with extensive granulate sculpture laterally (Figs 145, 155).....	29
-	Mesoscutellum without granulate sculpture (Figs 65, 191, 255).....	30
29	Posterior margin of metascutellum convex (Fig. 155); radicle yellowish (Fig. 157).....	<i>Oxyscelio kiefferi</i> Dodd

-	Posterior margin of metascutellum weakly emarginated (Fig. 145); radicle blackish (Fig. 147) . . . . .	<i>Oxyscelio jugi</i> Burks
30	Middle genal carina dorsally angled towards occipital carina (Fig. 256) . . . . .	<i>Oxyscelio reflectens</i> Burks
-	Middle genal carina parallel with eye margin (Figs 66, 192). . . . .	31
31	T1 without anterior bulge (Fig. 68) . . . . .	<i>Oxyscelio crebritas</i> Burks
-	T1 with small rounded anterior bulge (Fig. 194) . . . . .	32
32	A5 broader than long; mesoscutum with longitudinal carina between median carina and notauli (Fig. 301 in Burks <i>et al.</i> 2013). . . . .	<i>Oxyscelio longiventris</i> Burks
-	A5 longer than broad (Fig. 190); mesoscutum without longitudinal carina between median carina and notauli (Fig. 191) . . . . .	<i>Oxyscelio mollitia</i> Burks

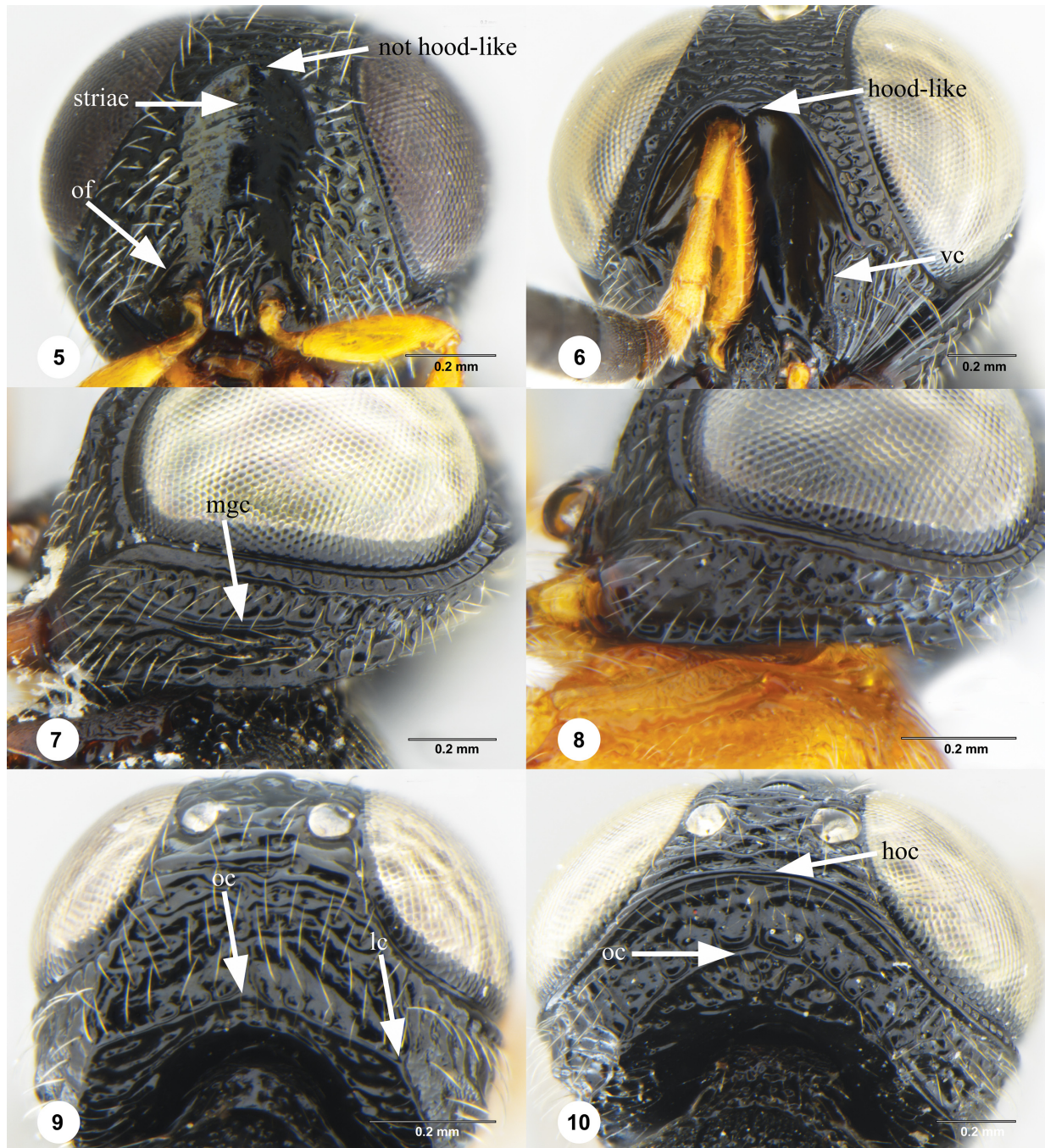
### Key to species of *Oxyscelio* from China

Males (Unknown for *O. aclavae*, *O. arvi*, *O. flabelli*, *O. jaune*, *O. labis*, *O. nasolabii*, *O. ogive*, *O. paracuculli*, *O. perpensus*, *O. planocarinae*, *O. striarum*)

1	Metascutellum setose dorsally (Figs 23, 35, 89, 185, 221) . . . . .	2
-	Metascutellum not setose dorsally (Figs 12, 45, 55, 65, 75, 109, 119, 129, 145, 155, 165, 191, 201, 255) . . . . .	7
2	Genal middle carina present (Figs. 24, 36, 186). . . . .	3
-	Genal middle carina absent (Figs 90, 222). . . . .	6
3	Frontal depression without transverse or oblique carinae; gena without granulate sculpture posteroventrally (Figs 36, 186) . . . . .	4
-	Frontal depression with 3 or more broadly interrupted transverse carinae; gena with granulate sculpture posteroventrally (Fig. 24). . . . .	5
4	Malar area near antennal insertion without carina or expansion; lateral propodeal carinae strongly diverging medially (Fig. 35). . . . .	<i>Oxyscelio brevidentis</i> Burks
-	Malar area near antennal insertion with vertical carina extending from clypeus towards frontal depression (Fig. 6); lateral propodeal carinae weakly diverging medially (Fig. 185) . . . . .	<i>Oxyscelio mesiodentis</i> Burks
5	Mesoscutal midlobe umbilicate-punctate anteriorly (Fig. 23); mesoscutellum without granulate sculpture (Fig. 23) . . . . .	<i>Oxyscelio arcus</i> Burks
-	Mesoscutal midlobe umbilicate-foveate anteriorly (Fig. 95 in Burks <i>et al.</i> 2013a); mesoscutellum with granulate sculpture (Fig. 97 in Burks <i>et al.</i> 2013) . . . . .	<i>Oxyscelio ceylonensis</i> (Dodd)
6	Postmarginal vein absent or very short (Fig. 96); mesoscutum umbilicate-foveate posteriorly (Fig. 89) . . . . .	<i>Oxyscelio doumao</i> Burks
-	Postmarginal vein long (Fig. 3); mesoscutum transversely rugose posteriorly (Fig. 221). . . . .	<i>Oxyscelio nullicarina</i> Mo & Chen, sp. n.
7	Hyperoccipital carina indicated by a sharp carina but not connected to occipital carina laterally (Figs 45, 75, 119, 129, 165) . . . . .	8
-	Hyperoccipital carina absent, indicated by one or more rounded rugae, or connected to occipital carina laterally (Figs 55, 65, 109, 145, 155, 191, 201, 255). . . . .	13
8	Ventral frons with oblique flange between antennal foramen and eye (Fig. 347 in Burks <i>et al.</i> 2013). . . . .	<i>Oxyscelio nubbin</i> Burks
-	Ventral frons without oblique flange between antennal foramen and eye (Figs 47, 77, 121, 131, 167) . . . . .	9
9	Upper frons hood-like, protruding over pedicel when antenna at rest (Figs 47, 77, 121) . . . . .	10
-	Upper frons not hood-like (Figs 131, 167). . . . .	12
10	Mesosoma and metasoma yellowish (Fig. 43); metascutellum narrowing apically, with posterolateral corners slightly convergent (Fig. 45) . . . . .	<i>Oxyscelio convergens</i> Burks
-	Mesosoma and metasoma entirely black (Fig. 123); metascutellum not narrowing apically, posterolateral corners not convergent (Figs 75, 119) . . . . .	11
11	Apex of T7 with acuminate lateral corners (Fig. 82); mesoscutum and mesoscutellum without strong granulate microsculpture (Fig. 75) . . . . .	<i>Oxyscelio cuculli</i> Burks
-	Apex of T7 without distinct corners (Fig. 126); mesoscutum and mesoscutellum with strong granulate microsculpture (Fig. 119). . . . .	<i>Oxyscelio granorum</i> Burks
12	Metascutellum deeply divided apically (Fig. 129); A11 wider than long (Fig. 135) . . . . .	<i>Oxyscelio intermedietas</i> Burks
-	Metascutellum truncate apically (Fig. 165); A11 longer than wide (Fig. 171) . . . . .	<i>Oxyscelio kramatos</i> Burks
13	In dorsal view, occipital carina with sharp, protruding lateral corners (Figs 55, 201). . . . .	14
-	In dorsal view, occipital carina rounded laterally, without lateral corners (Figs 65, 109, 145, 155). . . . .	15
14	A11 longer than broad (Fig. 61); mesoscutellar rim medially sharply incised (Fig. 12) . . . . .	<i>Oxyscelio cordis</i> Burks
-	A11 broader than long (Fig. 207); mesoscutellum apically convex or straight (Fig. 201) . . . . .	<i>Oxyscelio naraws</i> Kozlov & Lê
15	Metascutellum nearly flat, with some rugae or weak irregular sculpture centrally, without transverse carinae (Figs 83, 109) . . . . .	16
-	Metascutellum concave, smooth centrally or with one or more sharp transverse carinae (Figs 155, 255) . . . . .	17
16	Mesoscutellum without median longitudinal carina (Fig. 83); apex of T7 with tiny rounded tubercles (Fig. 86) . . . . .	<i>Oxyscelio dermatoglyphes</i> Burks
-	Mesoscutellum with median longitudinal carina (Fig. 109); apex of T7 with acuminate lateral corners (Fig. 116). . . . .	<i>Oxyscelio florus</i> Kononova
17	Radicle yellowish (Fig. 157) . . . . .	<i>Oxyscelio kiefferi</i> Dodd

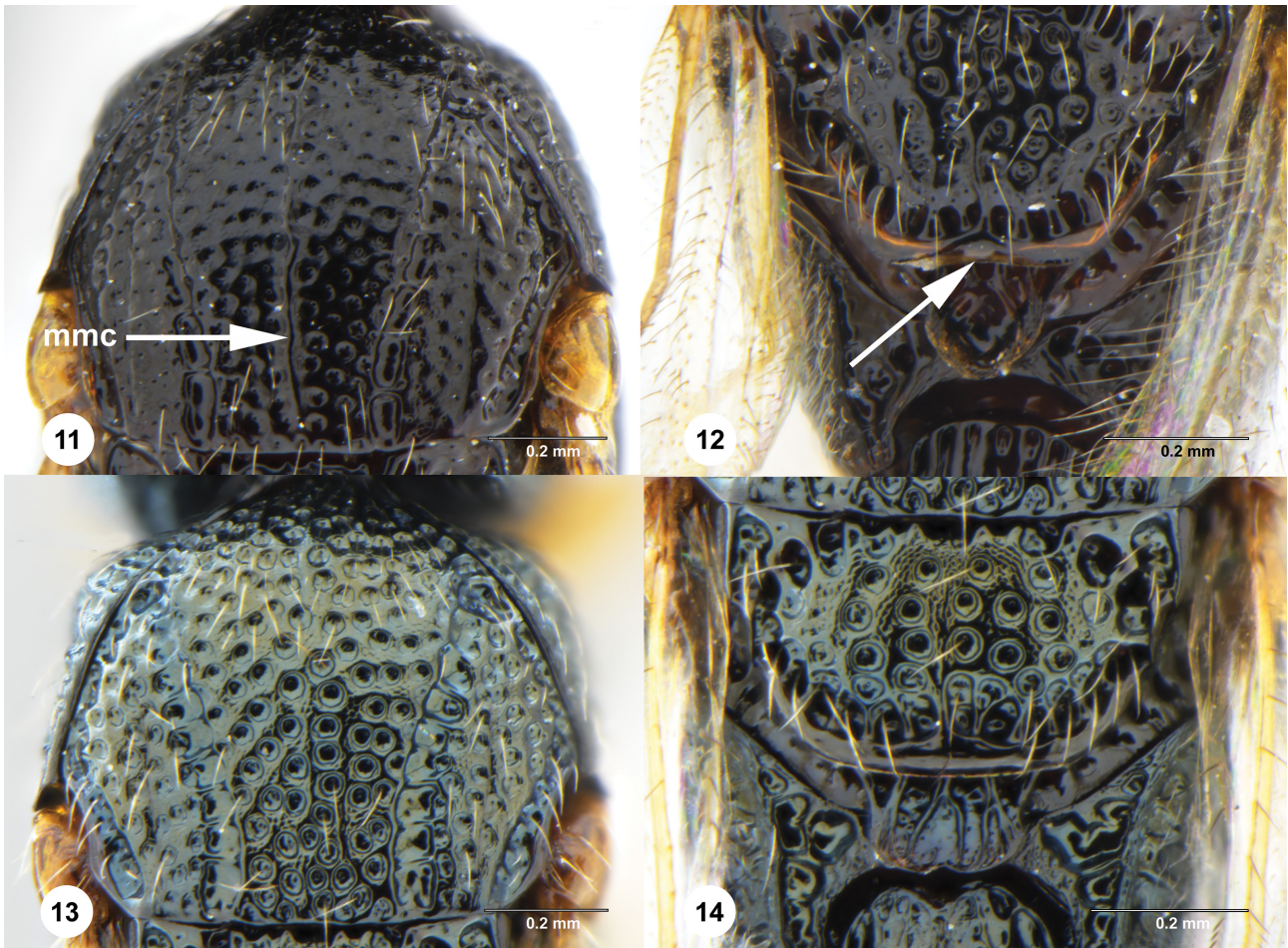


- Radicle blackish (Figs 67, 147, 193, 257) ..... 18
- 18 Middle genal carina angled towards occipital carina (Fig. 256) ..... *Oxyscelio reflectens* Burks
- Middle genal carina parallel with eye margin (Figs 66, 146, 192)..... 19
- 19 Median lobe of T1 with 4 longitudinal carinae (Figs 72, 152)..... 20
- Median lobe of T1 with 5 longitudinal carinae (Fig. 182) ..... 21
- 20 Metascutellum about as long as wide (Fig. 65) ..... *Oxyscelio crebritas* Burks
- Metascutellum distinctively longer than wide (Fig. 145) ..... *Oxyscelio jugi* Burks
- 21 Longitudinal carina between median carina and notauli present (Fig. 179) ..... *Oxyscelio longiventris* Burks
- Longitudinal carina between median carina and notauli absent (Fig. 191) ..... *Oxyscelio mollitia* Burks



**FIGURES 5–10.** Head 5 *Oxyscelio aclavae* Burks, female (SCAU 3018681), anterior view, of: oblique flange 6 *Oxyscelio mesiodentis* Burks, female (SCAU 3018688), anterior view, vc: vertical carina 7 *Oxyscelio intermedietas* Burks, female (SCAU 3013743), lateral view, mgc: middle genal carina 8 *Oxyscelio nullicarina* Mo & Chen, **sp. n.**, paratype, female (SCAU 200905875), lateral view 9 *Oxyscelio ogive* Burks, female (SCAU 3040668), dorsal view, oc: occipital carina; lc: lateral corner 10 *Oxyscelio doumao* Burks, female (SCAU 3013741), dorsal view, oc: occipital carina; hoc: hyperoccipital carina.





**FIGURES 11–14.** 11–12 *Oxyscelio cordis* Burks, female (SCAU 200901544) 11 Mesoscutum, dorsal view, mmc: mesoscutal median carina 12 Mesoscutellum and metascutellum, dorsal view, arrow indicates mesoscutellar apex incised 13–14 *Oxyscelio nasolabii* Burks, female (SCAU 3013726) 13 Mesoscutum, dorsal view 14 Mesoscutellum and metascutellum, dorsal view.

***Oxyscelio aclavae* Burks**

<http://zoobank.org/51993891-E31E-4C1C-B7CC-08E4C3FCFC2A>

Figures 2, 5, 15–20

*Oxyscelio aclavae* Burks, 2013: 16, 19, 28 (original description, keyed, placed in *fossarum* species group).

**Material Examined.** *Other material:* (1 female) **CHINA:** 1 female, Hainan, Mt. Bawangling, 19°07'N 109°03'E, 07–11.VII.2008, Jingxian Liu, SCAU 3018681 (SCAU).

**Note.** This species is newly recorded from China, Hainan Island.

***Oxyscelio arcus* Burks**

<http://zoobank.org/B65A97D2-C8D7-46D9-9C4F-7B0EB305EBA2>

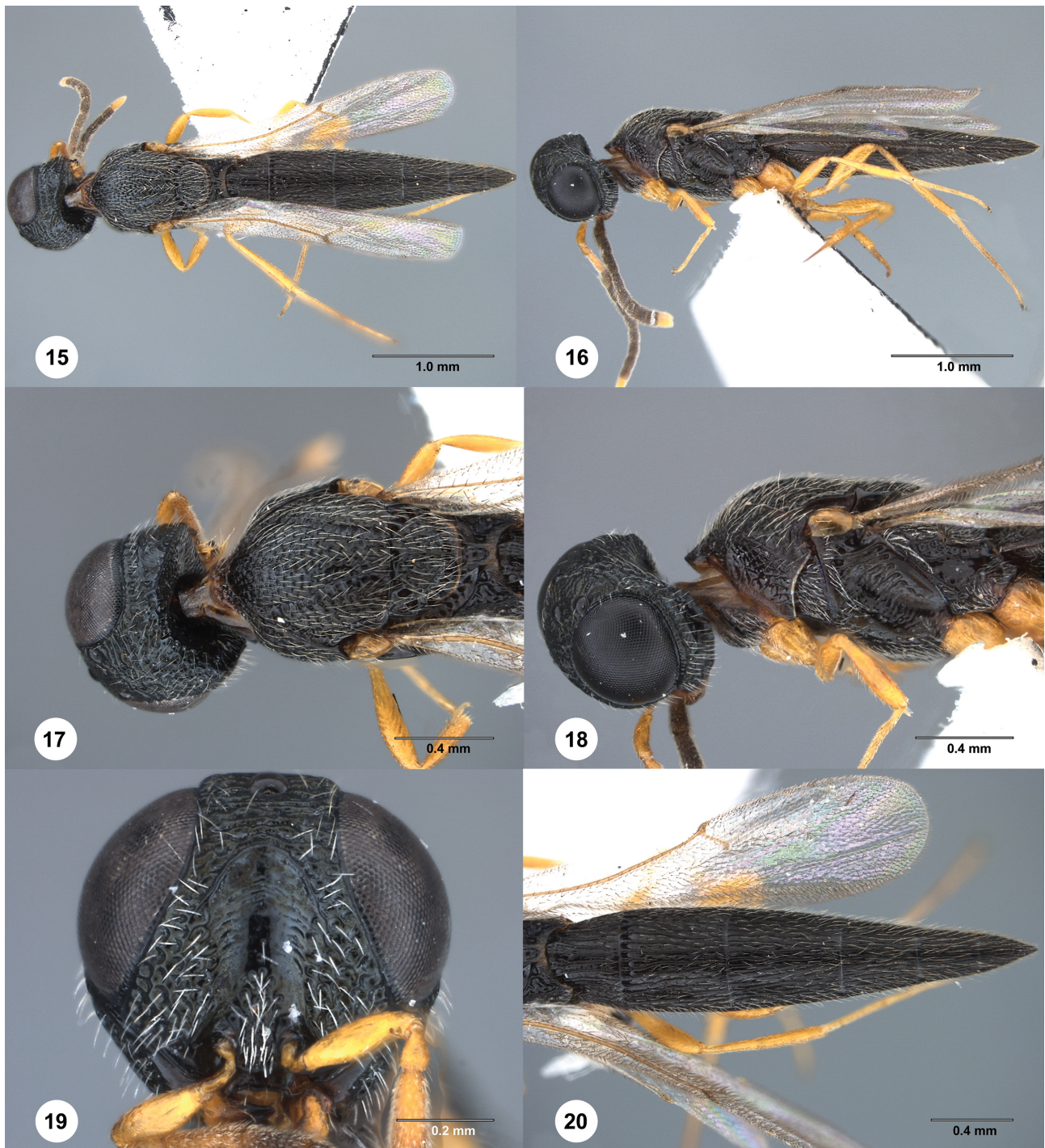
Figures 21–26

*Oxyscelio arcus* Burks, 2013: 15, 19, 44 (original description, keyed, placed in *cuculli* species group).

**Material Examined.** *Other material:* (1 female) **CHINA:** 1 female, Fujian, Minqing, Huangzhulin, 26°12'N 118°51'E, 15.VII.2005, Jingxian Liu, SCAU 3018690 (SCAU).

**Note.** This species is newly recorded from China, Fujian Province.





**FIGURES 15–20.** *Oxyscelio aclavae* Burks, female (SCAU 3018681) **15** Dorsal habitus **16** Lateral habitus **17** Head and mesosoma, dorsal view **18** Head and mesosoma, lateral view **19** Head, anterior view **20** Metasoma, dorsal view.

***Oxyscelio arvi* Burks**

<http://zoobank.org/491CF086-1501-4C6C-BB0E-1A9588FECF4F>

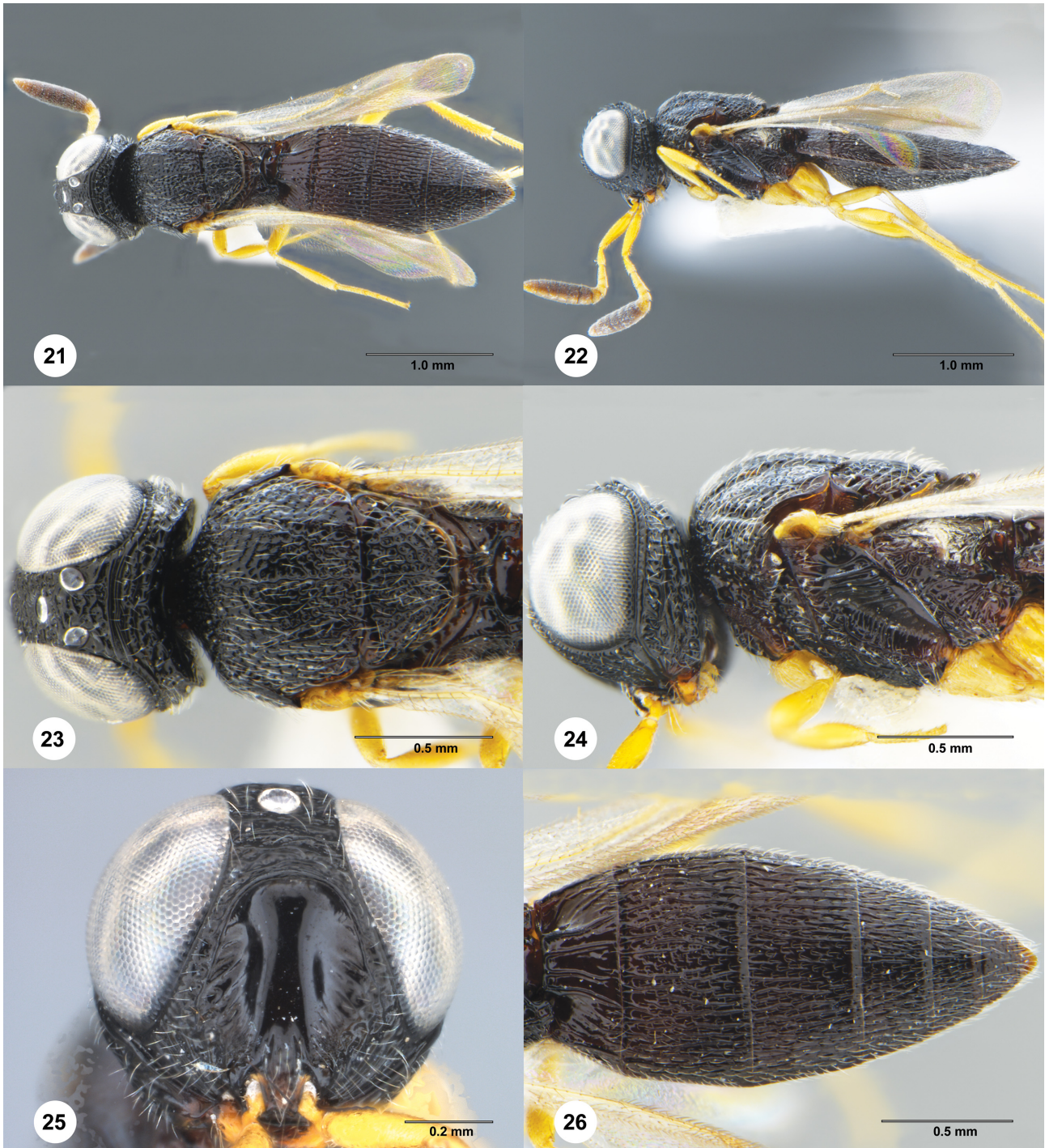
Figures 27–32

*Oxyscelio arvi* Burks, 2013: 16, 19, 46 (original description, keyed, placed in *florus* species group); Johnson *et al.* 2013: 1 (new distribution record for China).

**Material Examined.** *Other material:* (5 females) **CHINA:** 1 female, Guangdong, Zhaoqing, Mt. Xiwanggu, sweep,

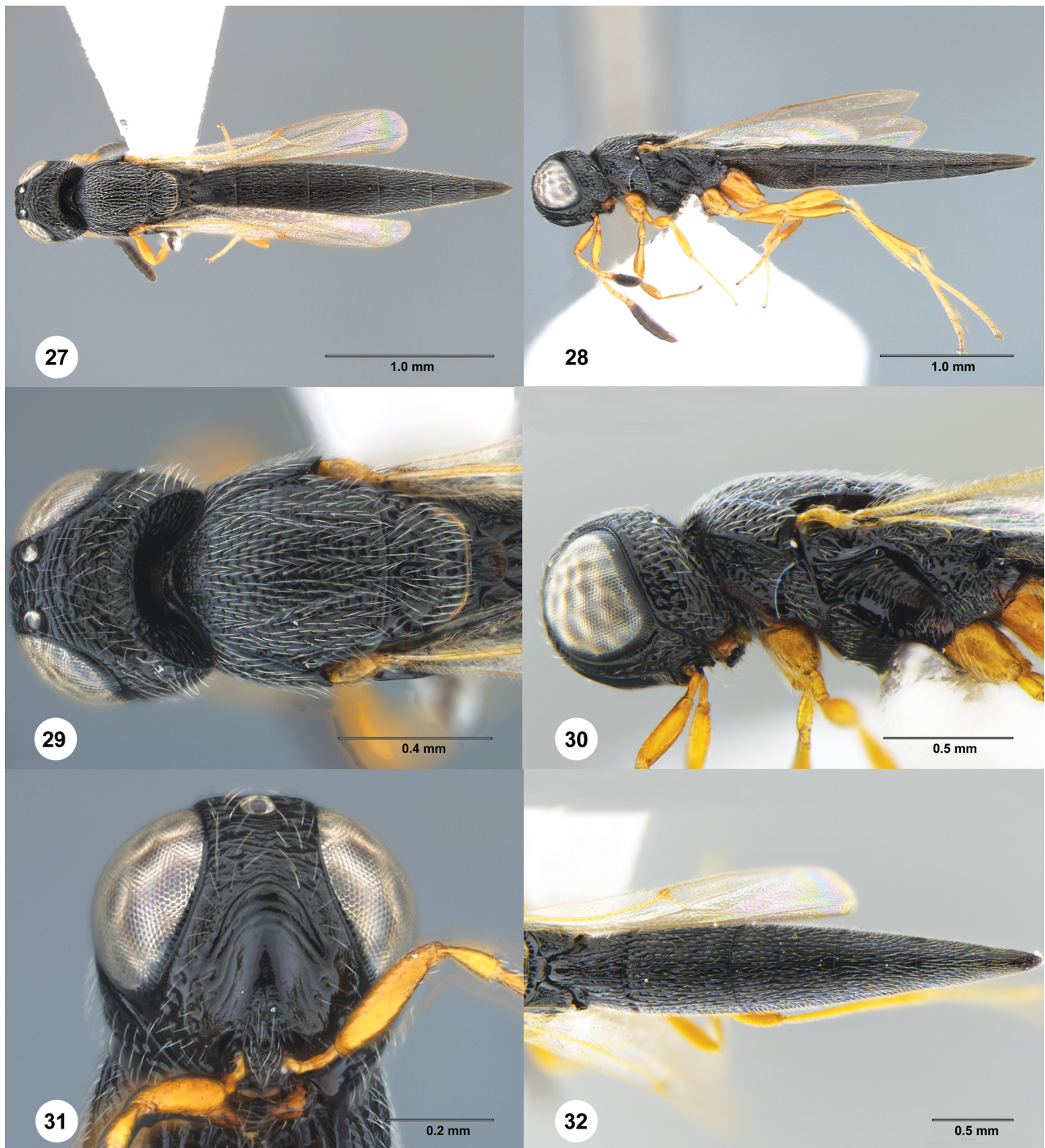


23°13'N 112°31'E, 02–06.VIII.2008, Huayan Chen, SCAU3013722; 1 female, Guangdong, Xinfeng, Mt. Yunjishan, 24°04'N 114°10'E, 18.VII.2003, Yanxia Song, SCAU 3015424 (SCAU); 1 female, Guangdong, Mt. Chebaling, 24°43'N 114°14'E, 27–28.VII.2002, Zaifu Xu, SCAU 3015425 (SCAU); 1 female, Zhejiang, Mt. Baishanzu, 25°45'N 119° 12'E, 15.VIII.2003, Jingxian Liu, SCAU 3015426 (SCAU); 1 female, Zhejiang, Wenzhou, Mt. Wuyanling, 27°42'N 119°40'E, 28.VII.–03.VIII.2005, Jingxian Liu, SCAU 3015427 (SCAU).



**FIGURES 21–26.** *Oxyscelio arcus* Burks, female (SCAU 3018690) 21 Dorsal habitus 22 Lateral habitus 23 Head and mesosoma, dorsal view 24 Head and mesosoma, lateral view 25 Head, anterior view 26 Metasoma, dorsal view.





**FIGURES 27–32.** *Oxyscelio arvi* Burks, female (SCAU 3013722) **27** Dorsal habitus **28** Lateral habitus **29** Head and mesosoma, dorsal view **30** Head and mesosoma, lateral view **31** Head, anterior view **32** Metasoma, dorsal view.

***Oxyscelio brevidentis* Burks**

<http://zoobank.org/7BC1A5B2-D4A0-40FA-8AF4-D30DA93A1929>

Figures 33–42

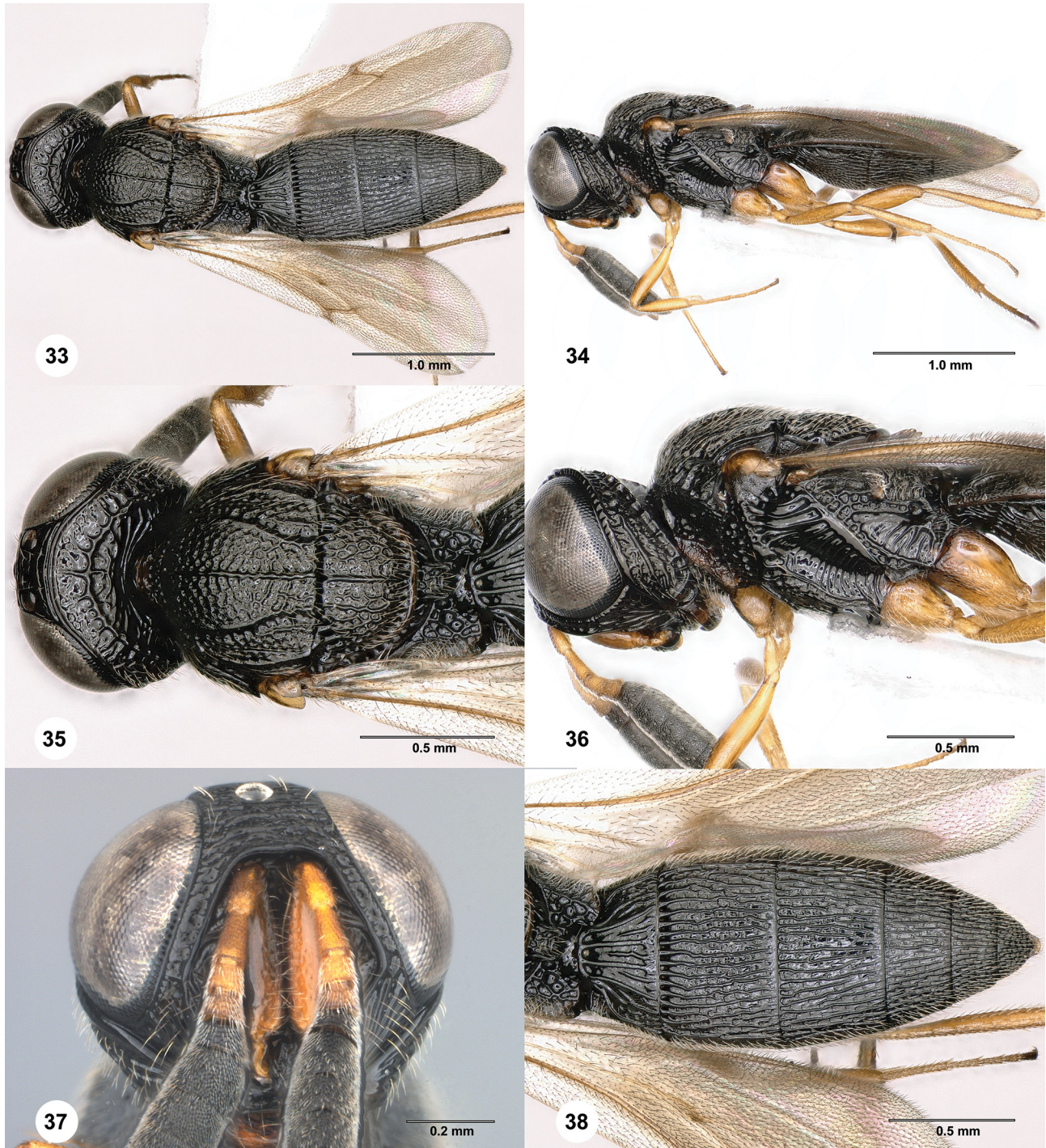
*Oxyscelio brevidentis* Burks, 2013: 15, 20, 55 (original description, keyed, placed in *cuculli* species group).

**Material Examined.** *Other material:* (2 females, 6 males) **CHINA:** 1 female, Hainan, Mt. Jianfengling, 18°41'N 108°49'E, 12–14.VII.2006, Jingxian Liu, SCAU 3018705 (SCAU); 1 female, Yunnan, Xishuangbanna, Meng-



hai, Bulangshan Village, 1610m, Area D, grass, MT, 21°44.746'N 100°26'E, 17.V–20.VI.2018, Li Ma, SCAU 3040657 (SYSBM); 3 males, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1595m, Area D, forest, MT, 21°44.761'N 100° 25.959'E, 16.VIII–14.IX.2018, Li Ma, SCAU 3040617, 3040619–3040620 (SYSBM); 1 male, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1692m, Area C, forest, 21°44.619'N 100°26.721'E, 16.VIII.2018, MT, Li Ma, SCAU 3040623 (SYSBM); 1 male, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1683m, Area A1, grass, MT, 21°45.037'N 100°26.715'E, 15.VIII–15.IX.2018, Li Ma, SCAU 3040628 (SYSBM); 1 male, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1595m, Area D, forest, MT, 21°44.761'N 100°25.959'E, 17.V.2018, Li Ma, SCAU 3040659 (SYSBM).

**Note.** This species is newly recorded from China, Hainan and Yunnan Provinces.



**FIGURES 33–38.** *Oxyscelio brevidentis* Burks, female (SCAU 3040657) **33** Dorsal habitus **34** Lateral habitus **35** Head and mesosoma, dorsal view **36** Head and mesosoma, lateral view **37** Head, anterior view **38** Metasoma, dorsal view.





**FIGURES 39–42.** *Oxyscelio brevidentis* Burks, male (SCAU 3040659) **39** Dorsal habitus **40** Lateral habitus **41** Antenna **42** Metasoma, dorsal view.

***Oxyscelio ceylonensis* (Dodd)**

<http://zoobank.org/FA70AF9F-816F-497E-BD85-674997D2543B>

*Sceliomorpha ceylonensis* Dodd, 1920: 349 (original description); Masner, 1965: 96 (type information).

*Oxyscelio ceylonensis* (Dodd): Dodd, 1931: 75 (generic transfer); Masner, 1976: 24 (description); Johnson, 1992: 452 (cataloged, type information); Burks *et al.*, 2013a: 15, 21, 73 (description, keyed, type information, distribution, placed in *cuculli* species group); Johnson *et al.* 2013: 5 (new distribution record for China).

**Material Examined.** No specimens were available for this study.

**Comments.** Burks *et al.* (2013a) reported this species from China. Subsequently, Johnson *et al.* (2013) reported additional distribution records of *Oxyscelio ceylonensis* (Dodd) in China, but the three specimens (deposited in SCAU) they examined were misidentified, see further comments in *Oxyscelio nullicarina* Mo & Chen, **sp. n.**

***Oxyscelio convergens* Burks**

<http://zoobank.org/E03A3DFC-3859-4097-9D95-508F16CF1C04>

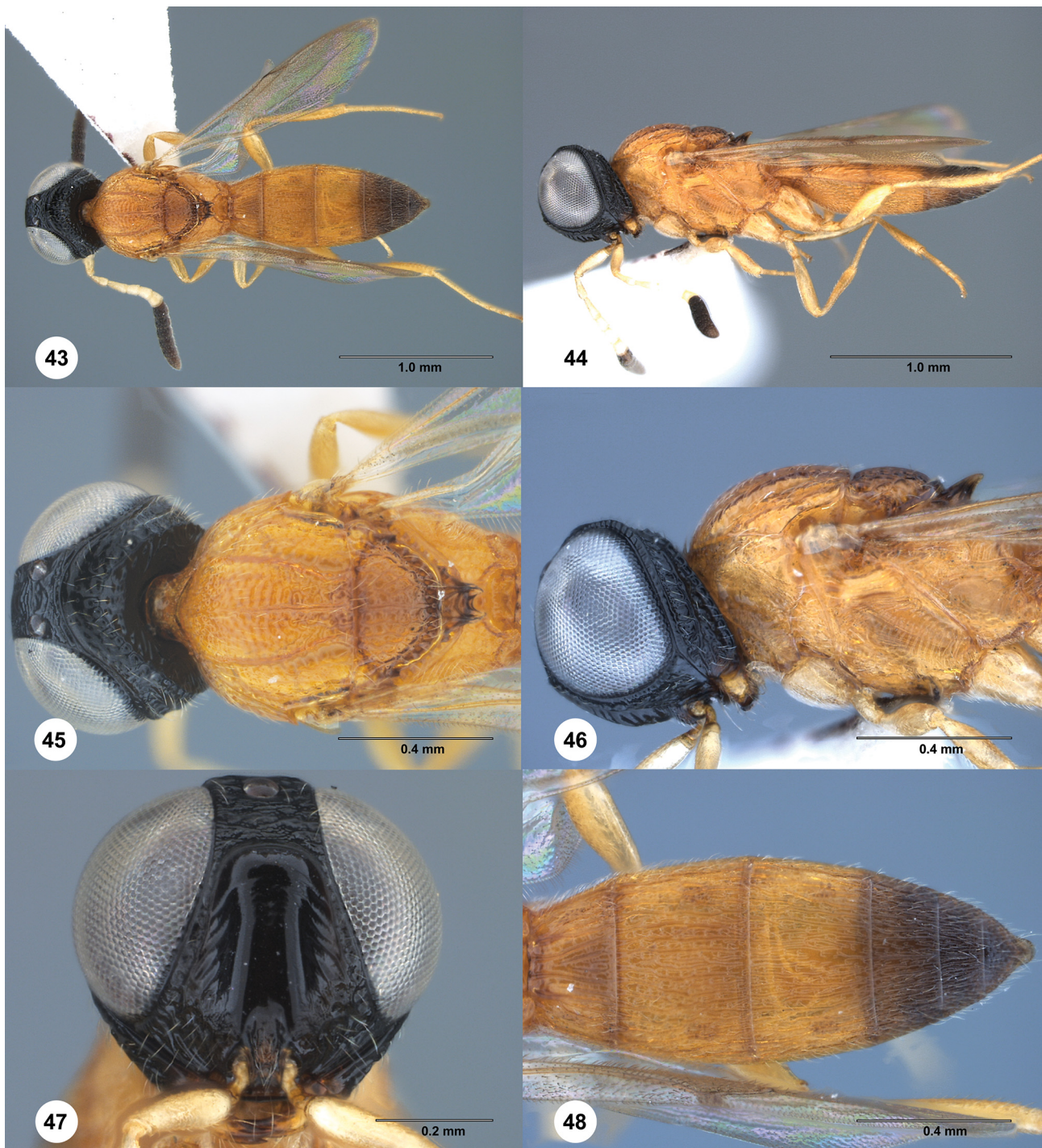
Figures 43–52

*Oxyscelio convergens* Burks, 2013: 15, 21, 84 (original description, keyed, placed in *cuculli* species group); Johnson *et al.* 2013: 6 (new distribution record for China).

**Material Examined.** *Other material:* (4 females, 12 males) **CHINA:** 1 female, Zhejiang, Mt. Qingliangfeng,



30°04'N 118°52'E, 09.VIII.2005, Hongying Zhang, SCAU 3013733 (SCAU); 1 male, Hainan, Mt. Diaoluoshan, 18°39'N 109°53'E, 29.V.2007, Bin Xiao, SCAU 3013734 (SCAU); 1 female, 7 males, Hainan, Mt. Jianfengling, 18°41'N 108°49'E, 22–23.X.2007, Jingxian Liu, SCAU3018701, 3018698, 3015444, 3015446–3015450 (SCAU); 1 male, Hainan, Mt. Jianfengling, 18°41'N 108°49'E, 04–07.VI.2007, Jie Zeng, SCAU 3015445 (SCAU), 1 male, Hainan, Mt. Wuzhishan, 18°51'N 109°39'E, 16–18.V.2007, Jingxian Liu, SCAU 3015451 (SCAU); 1 male, Guangdong, Fogang, Mt. Guanyinshan, 23°57'N 113° 32'E, 15.V.2004, Zaifu Xu, SCAU 3015452 (SCAU); 1 male, Guangdong, Mt. Chebaling, 24°43'N 114°14'E, 21–23.VIII.2003, Jingxian Liu, SCAU 3015453 (SCAU); 1 male, Guangdong, Mt. Xiangtoushan, 23°18'18"N 114°24'00"E, 21.VIII.2019, Wenhui Mo, SCAU 3018679 (SCAU); 1 female, Guangdong, Nanling Nature Reserve, 24°54'N 113°00'E, 16–21.VII.2008, Zaifu Xu, SCAU 3018702 (SCAU).



**FIGURES 43–48.** *Oxyscelio convergens* Burks, female (SCAU 3013733) **43** Dorsal habitus **44** Lateral habitus **45** Head and mesosoma, dorsal view **46** Head and mesosoma, lateral view **47** Head, anterior view **48** Metasoma, dorsal view.





**FIGURES 49–52.** *Oxyscelio convergens* Burks, male (SCAU 3013734) **49** Dorsal habitus **50** Lateral habitus **51** Antenna **52** Metasoma, dorsal view.

***Oxyscelio cordis* Burks**

<http://zoobank.org/ED24C4B5-414C-4D6A-8713-14766B7DDB19>

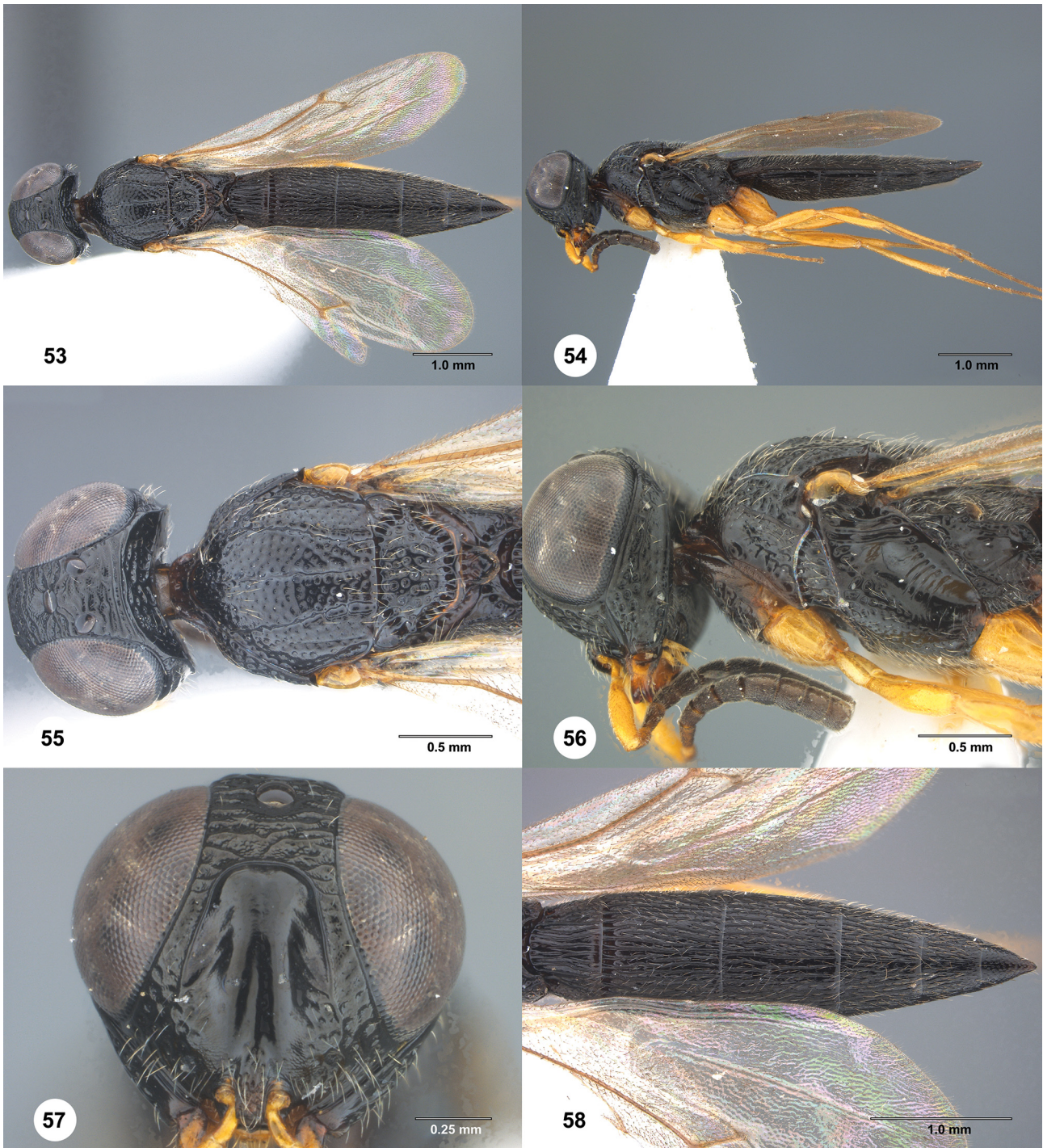
Figures 11–12, 53–62

*Oxyscelio cordis* Burks, 2013: 14, 21, 87 (original description, keyed, placed in *crateris* species group); Johnson *et al.* 2013: 13 (new distribution record for China).

**Material Examined.** *Other material:* (1 female, 1 male) **CHINA:** 1 female, Yunnan, Yingjiang, Tongbiguan, 17.V.2009, Manman Wang, SCAU 200901544 (SCAU); 1 male, Yunnan, Yingjiang, Tongbiguan, 16.V.2009, Manman Wang, SCAU 200906462 (SCAU).

**Comments.** This species was originally described based on a singleton female (Burks *et al.* 2013a). Here we record the male: Body length 3.98 mm (n=1); A5 tyloid: carina-like, not expanded; A11: longer than broad; Median tooth of frontal depression: absent; Median lobe of T1: with 4 longitudinal carinae; Metasomal apex: with acuminate lateral corners.





**FIGURES 53–58.** *Oxyscelio cordis* Burks, female (SCAU 200901544) **53** Dorsal habitus **54** Lateral habitus **55** Head and mesosoma, dorsal view **56** Head and mesosoma, lateral view **57** Head, anterior view **58** Metasoma, dorsal view.





**FIGURES 59–62.** *Oxyscelio cordis* Burks, male (SCAU 200906462) **59** Dorsal habitus **60** Lateral habitus **61** Antenna **62** Metasoma, dorsal view.

***Oxyscelio crebritas* Burks**

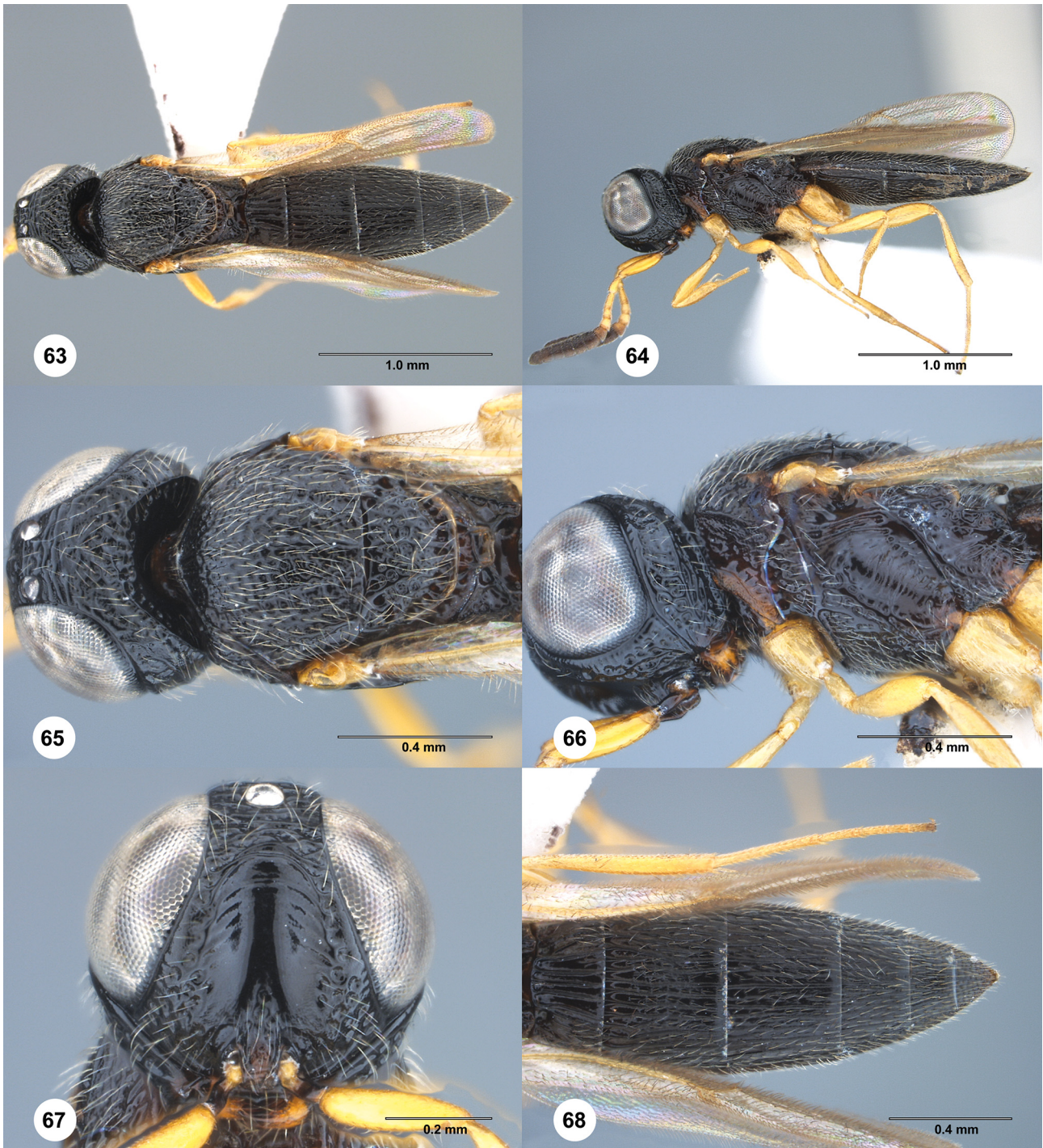
<http://zoobank.org/82C94912-5D20-4C31-8447-1E6F470BFA53>

Figures 63–72

*Oxyscelio crebritas* Burks, 2013: 15, 22, 93 (original description, keyed, placed in *crebritas* species group); Johnson *et al.* 2013: 15 (new distribution record for China).

**Material Examined.** *Other material:* (1 female, 1 male) **CHINA:** 1 female, Taiwan, Dongtai, Shouka, 22°14'N 120°50'E, 30.V.2011, sweeping, Pu Tang, SCAU 3013729 (SCAU); 1 male, Hainan, Mt. Wuzhishan, 18°51'N 109°39'E, 17.V.2007, Bin Xiao, SCAU 3018686 (SCAU).





**FIGURES 63–68.** *Oxyscelio crebritas* Burks, female (SCAU 3013729) **63** Dorsal habitus **64** Lateral habitus **65** Head and mesosoma, dorsal view **66** Head and mesosoma, lateral view **67** Head, anterior view **68** Metasoma, dorsal view.





**FIGURES 69–72.** *Oxyscelio crebritas* Burks, male (SCAU 3018686) **69** Dorsal habitus **70** Lateral habitus **71** Antenna **72** Metasoma, dorsal view.

### *Oxyscelio cuculli* Burks

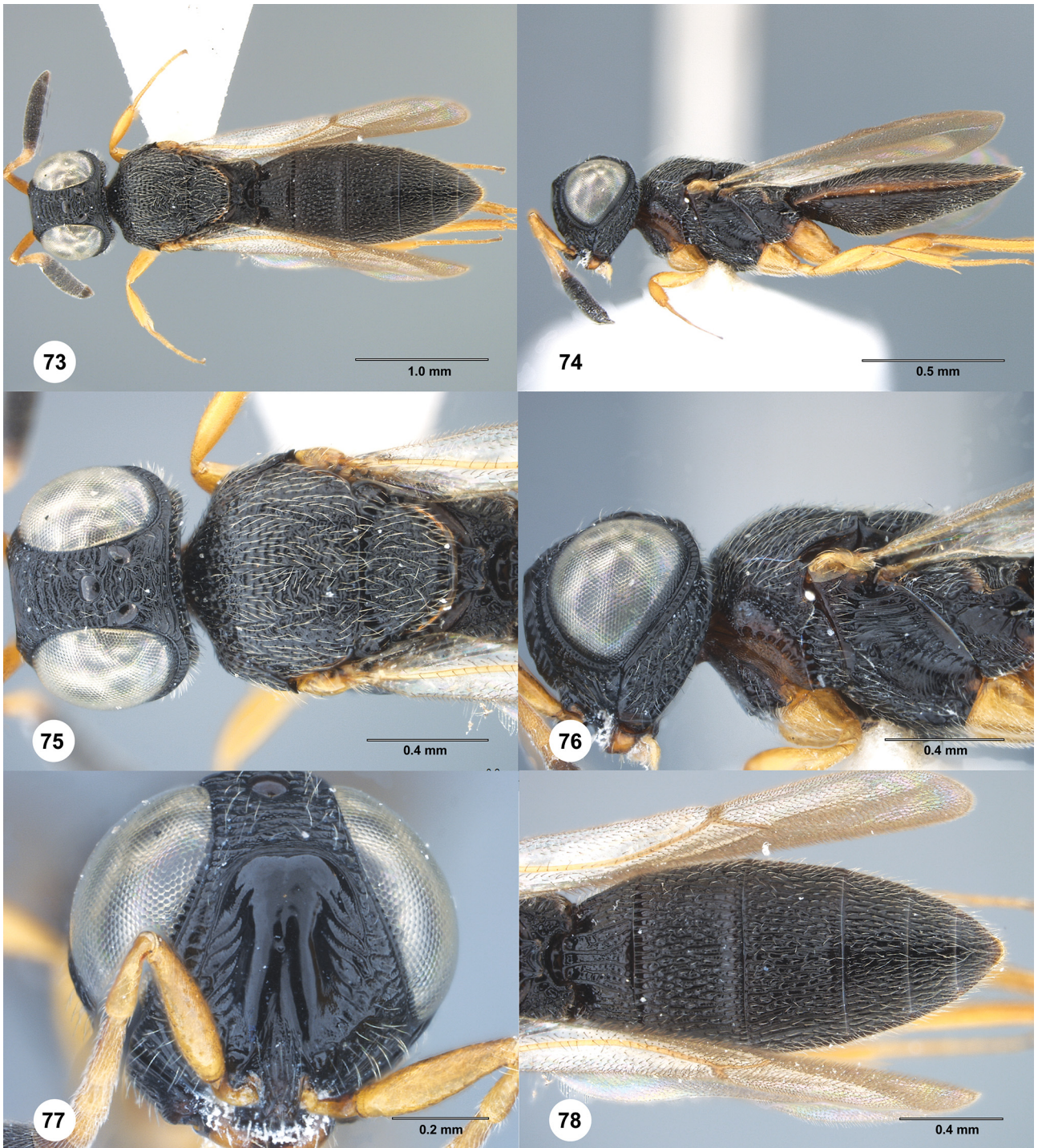
<http://zoobank.org/D09D8C28-2F8A-4E65-A1B6-D442FB123BF9>

Figures 73–82

*Oxyscelio cuculli* Burks, 2013: 15, 22, 100 (original description, keyed, placed in *cuculli* species group); Johnson *et al.* 2013: 16 (new distribution record for China).

**Material Examined.** *Other material:* (3 females, 10 males) **CHINA:** 1 female, Zhejiang, Mt. Tianmushan, Xianrending, 1200m, YPT, 30°20.56'N 119°26.03'E, 25–29.VII.2011, Chengyuan Jin, SCAU 3013735 (SCAU); 1 male, Zhejiang, Mt. Qingliangfeng, 30°04'N 118°52'E, 08.VIII.2005, Hongying Zhang, SCAU 3013736 (SCAU); 1 male, Hainan, Mt. Diaoluoshan, 18°39'N 109°53'E, 16–17.VII.2006, Jingxian Liu, SCAU 3018703 (SCAU); 1 male, Yunnan, Jinghong, Nanbanhe National Nature Reserve, 900–1000m, 22°00'N 100°46'E, 31.VII.2003, Long Hu, SCAU 3040605 (SCAU); 1 female, 6 males, Yunnan, Jinghong, Nanbanhe National Nature Reserve, YPT, 22°15'47.39"N 100°36'3.22"E, 19–23.VII.2011, Nasen Wei *et al.*, SCAU 3040606–3040612 (SCAU); 1 male, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1610m, Area D, grass, MT, 21°44.746'N 100°26'E, 16.VIII–14.IX.2018, Li Ma SCAU 3040622 (SYSBM); 1 female, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1683m, Area A, grass, 21° 45.037'N 100°26.715'E, 17.V–21.VI.2018, MT, Li Ma, SCAU 3040626 (SYSBM).





**FIGURES 73–78.** *Oxyscelio cuculli* Burks, female (SCAU 3013735) **73** Dorsal habitus **74** Lateral habitus **75** Head and mesosoma, dorsal view **76** Head and mesosoma, lateral view **77** Head, anterior view **78** Metasoma, dorsal view.





**FIGURES 79–82.** *Oxyscelio cuculli* Burks, male (SCAU 3013736) **79** Dorsal habitus **80** Lateral habitus **81** Antenna **82** Metasoma, dorsal view.

***Oxyscelio dermatoglyphes* Burks**

<http://zoobank.org/BF3D2E8D-3434-4B3B-88AA-70122522496D>

Figures 83–86

*Oxyscelio dermatoglyphes* Burks, 2013: 16, 22, 113 (original description, keyed, placed in *florus* species group); Johnson *et al.* 2013: 19 (new distribution record for China).

**Material Examined.** *Other material:* (1 male) **CHINA:** 1 male, Zhejiang, Tianmushan, Xianrending, 30°20.56'N 119°26.03'E, 25–29.VII.2011, sweeping, Chen Huayan, SCAU 201100082 (SCAU).



**FIGURES 83–86.** *Oxyscelio dermatoglyphes* Burks, male (SCAU 201100082) **83** Dorsal habitus **84** Lateral habitus **85** Antenna **86** Metasoma, dorsal view.

### *Oxyscelio doumao* Burks

<http://zoobank.org/FB6BAA50-D0F3-4F7B-B04E-7AF33F722FBC>

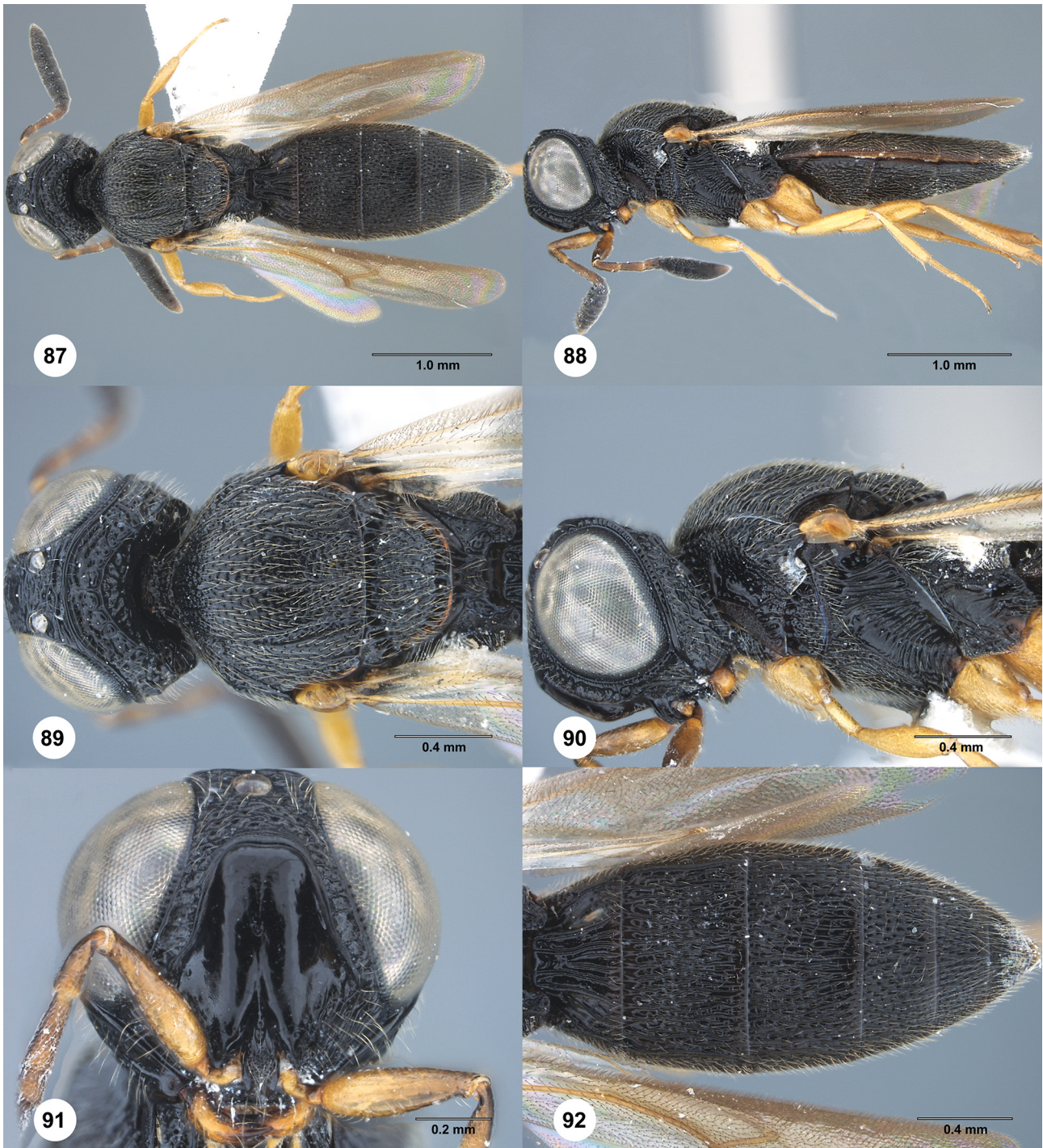
Figures 10, 87–96

*Oxyscelio doumao* Burks, 2013: 15, 23, 117 (original description, keyed, placed in *cuculli* species group); Johnson *et al.* 2013: 20 (new distribution record for China).

**Material Examined.** *Other material:* (4 females, 4 males) **CHINA:** 3 males, Zhejiang, Wenzhou, Wuyanling Nature Reserve, 800m, 27°42'N 119°40'E, XII.2005, Yiping Wang, SCAU 3015433, 3018704, 3018706 (SCAU); 3 females, Zhejiang, Wenzhou, Mt. Wuyanling, 27°42'N 119°40'E, 28.VII–03.VIII.2005, Jingxian Liu, SCAU 3015434–3015436 (SCAU); 1 female, Zhejiang, Mt. Tianmushan, Xianrending, 1200m, YPT, 30°20.56'N 119°26.03'E, 25–29.VII.2011, Huayan Chen, SCAU 3013741 (SCAU); 1 male, Zhejiang, Mt. Tianmushan, Xianrending, 1200m, sweeping, 30°20.56'N 119°26.03'E, 25–29.VII.2011, Huayan Chen, SCAU 3013742 (SCAU).

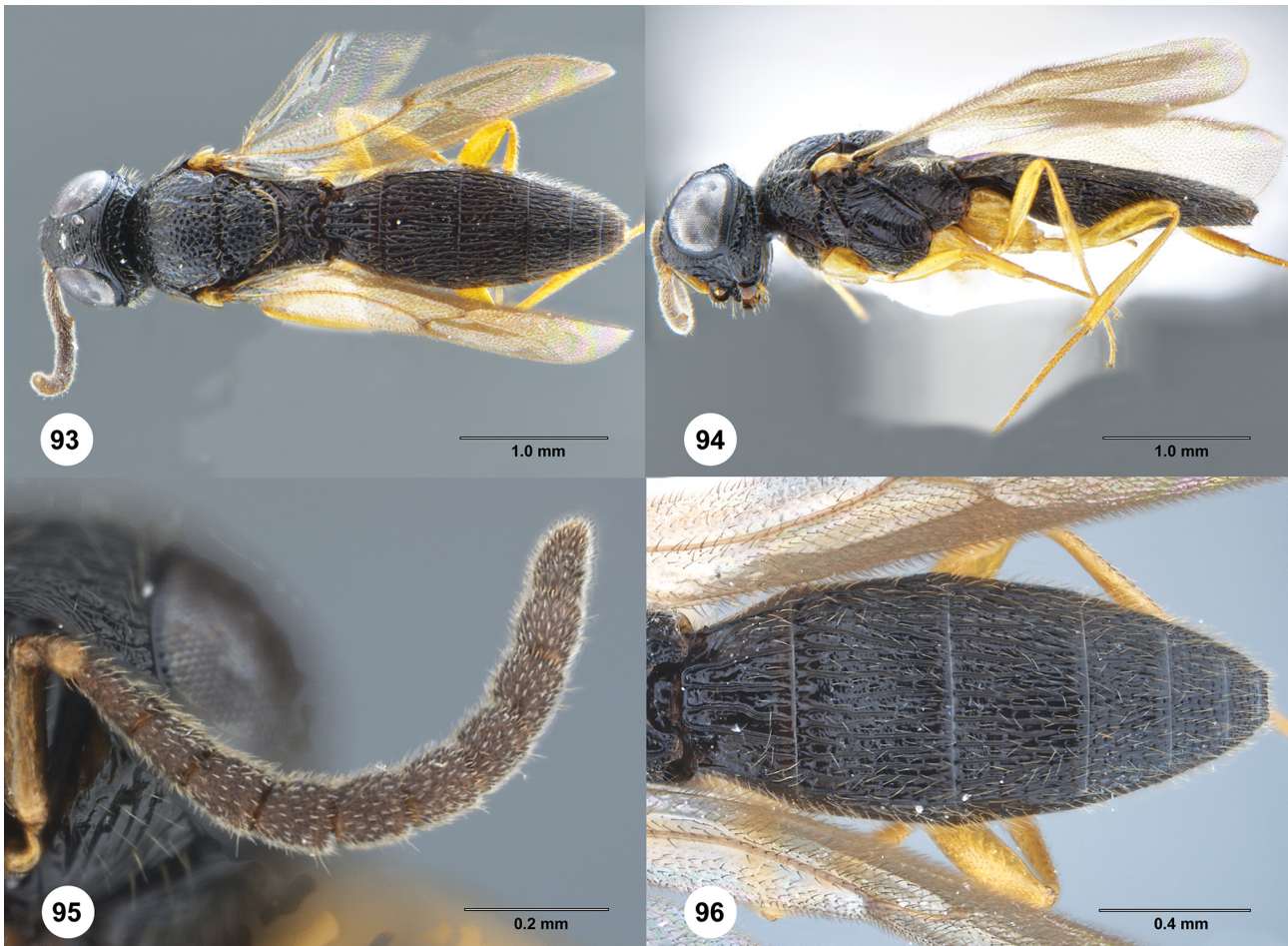
**Comments.** This species was originally described based on females (Burks *et al.* 2013a). Here we record the male: Body length 3.98–4.26 mm (n=4); A5 tyloid: carina-like, not expanded; A11: longer than broad; Median tooth of frontal depression: absent; Median lobe of T1: with 4 longitudinal carinae; Metasomal apex: with tiny rounded tubercles.





**FIGURES 87–92.** *Oxyscelio doumao* Burks, female (SCAU 3013741) **87** Dorsal habitus **88** Lateral habitus **89** Head and mesosoma, dorsal view **90** Head and mesosoma, lateral view **91** Head, anterior view **92** Metasoma, dorsal view.





**FIGURES 93–96.** *Oxyscelio doumao* Burks, male (SCAU 3013742) **93** Dorsal habitus **94** Lateral habitus **95** Antenna **96** Metasoma, dorsal view.

***Oxyscelio excavatus* (Kieffer)**

<http://zoobank.org/7C8A7B0A-E175-4DB6-AE6C-13045066DF01>

Figures 97–100

*Camptoteleia excavata* Kieffer, 1913b: 387, 388 (original description, keyed); Kieffer, 1914: 296 (keyed); Kieffer, 1916: 171 (keyed); Kieffer, 1926: 380, 383 (description, keyed); Kelner-Pillault, 1958: 150 (type information); Baltazar, 1966: 178 (cataloged, type information, distribution).

*Oxyscelio excavatus* (Kieffer): Dodd, 1931: 75 (generic transfer); Johnson, 1992: 452 (cataloged, type information); Burks *et al.* 2013: 15, 23, 119 (description, keyed, type information, distribution, placed in *crebritas* species group).

**Material Examined.** *Other material:* (3 males) **CHINA:** 1 male, Hainan, Mt. Yinggeling, 18° 49'N 109°11'E, 17–20.VII.2010, Huayan Chen, SCAU 3015457 (SCAU); 1 male, Hainan, Mt. Diaoluoshan, 18°39'N 109°53'E, 16–17.VII.2006, Jingxian Liu, SCAU 3015459 (SCAU); 1 male, Zhejiang, Wenzhou, Mt. Wuyanling, 27°42'N 119°40'E, 28.VII–03.VIII.2005, Jingxian Liu, SCAU 3018685 (SCAU).

**Note.** This species is newly recorded from China, Hainan and Zhejiang Provinces.





**FIGURES 97–100.** *Oxyscelio excavatus* (Kieffer), male (SCAU 3018685) **97** Dorsal habitus **98** Lateral habitus **99** Antennae **100** Metasoma, dorsal view.

***Oxyscelio flabelli* Burks**

<http://zoobank.org/8AB217B0-511B-432F-BD59-E6B267AC1C9D>

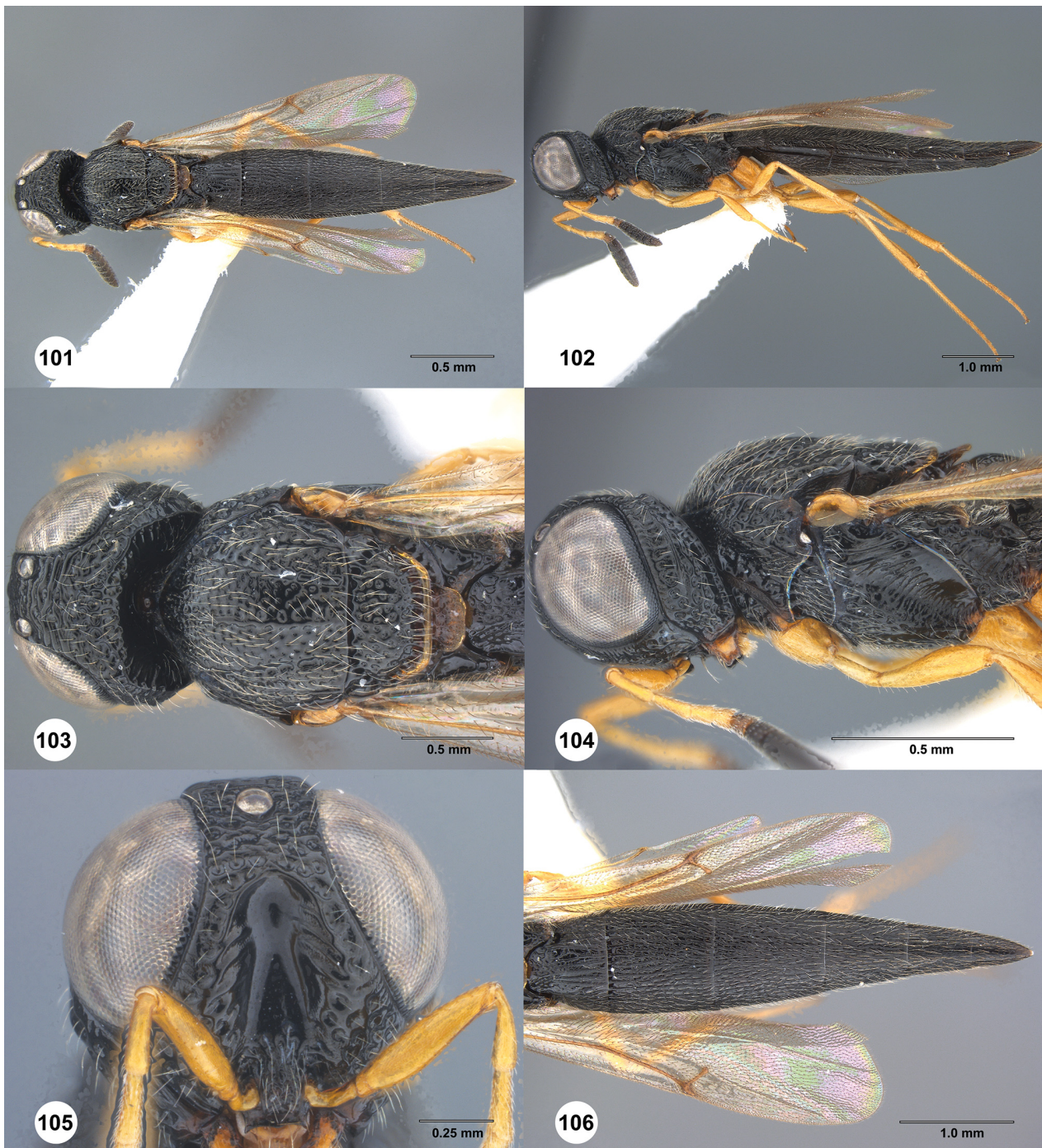
Figures 101–106

*Oxyscelio flabelli* Burks, 2013: 18, 23, 123 (original description, keyed, placed in *ogive* species group).

**Material Examined.** *Other material:* (1 female) **CHINA:** 1 female, Yunnan, Xishuangbanna, Jinghong, 22°00.761'N 100°247'E, 31.VII.2003, Jingxian Liu, SCAU 3040600 (SCAU).

**Note.** This species is newly recorded from China, Yunnan Province.





**FIGURES 101–106.** *Oxyscelio flabelli* Burks, female (SCAU 3040600) **101** Dorsal habitus **102** Lateral habitus **103** Head and mesosoma, dorsal view **104** Head and mesosoma, lateral view **105** Head, anterior view **106** Metasoma, dorsal view.

***Oxyscelio florus* Kononova**

<http://zoobank.org/6836FE9A-1218-4498-B609-A99CA8539908>

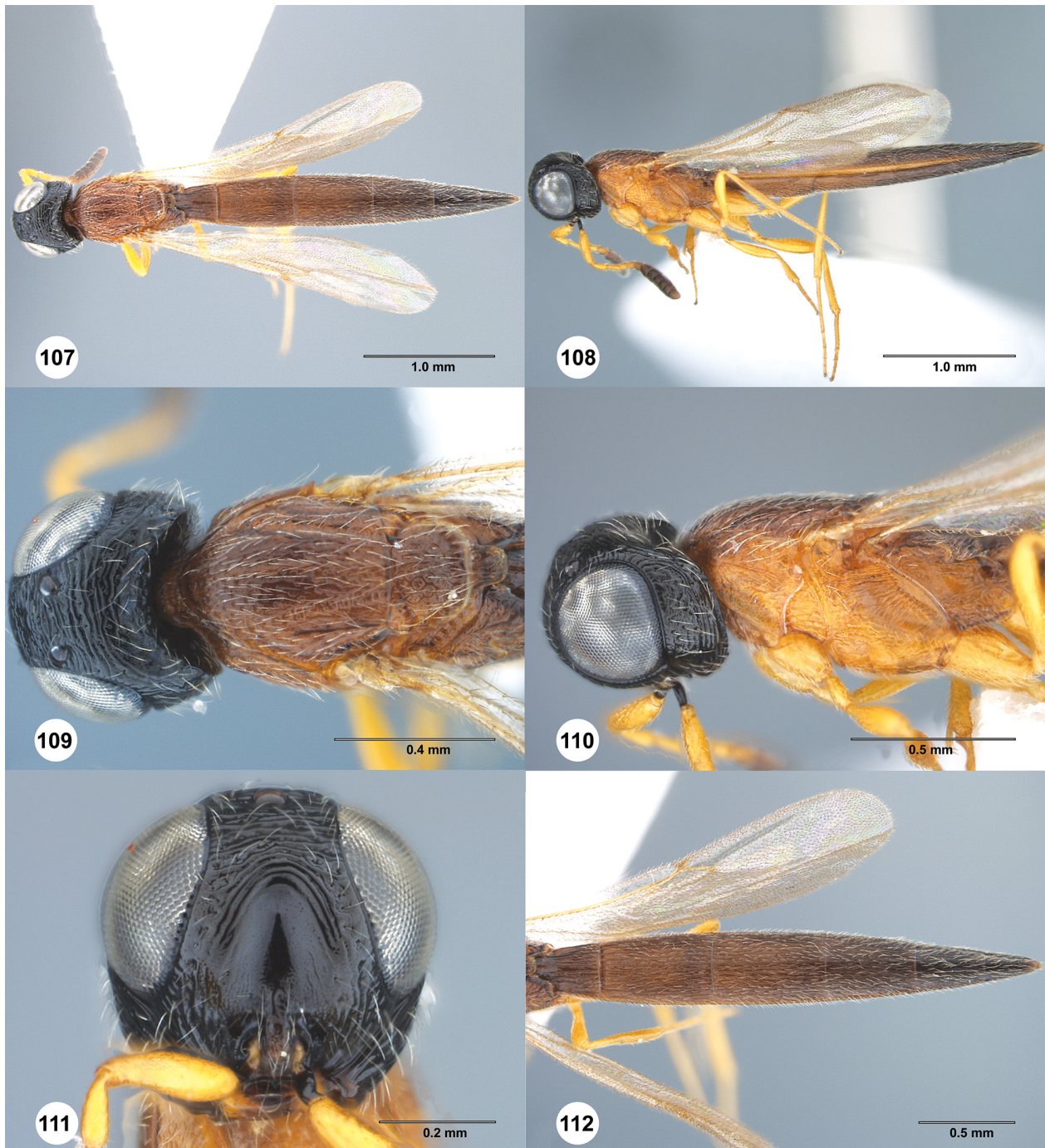
Figures 107–116

*Oxyscelio florum* Kononova: Kononova & Fursov, 2007: 103 (description); Kononova & Fursov, 2007: 62 (original description).

*Oxyscelio florus* Kononova: Kononova & Kozlov, 2008: 190, 191 (description, keyed); Burks, Masner, Johnson & Austin, 2013: 16, 23, 129 (description, keyed, type information, distribution, placed in *florus* species group); Johnson *et al.* 2013: 25 (new distribution record for China).



**Material Examined.** *Other material:* (16 females, 11 males) **CHINA:** 1 female, Guangdong, Mt. Chebaling, 24°43'N 114°14'E, 23–28.VII.2008, Zaifu Xu, SCAU 3013723 (SCAU); 1 male, Zhejiang, Mt. Qingliangfeng, 30°04'N 118°52'E, 09.VIII.2005, Min Shi, SCAU 3013724 (SCAU); 1 female, Guangdong, Mt. Chebaling, 24°43'N 114°14'E, 16–21.VII.2008, Zaifu Xu, SCAU 3015401 (SCAU); 1 female, Zhejiang, Mt. Fengyangshan, 29°53'50"N 119°9'32"E, 30.VII.2007, Pingyi Wang, SCAU 3015402 (SCAU); 1 male, Guangdong, Mt. Nankunshan, 23°37.287'N 113°51.267'E, 14.VII.2003, Zaifu Xu, SCAU 3015403 (SCAU); 11 femals, 1 male, Hunan, Mangshan Nature Reserve, 24°56'N 112°69'E, 13.VIII.2010, Huayan Chen, SCAU 3015400, 3015404–3015414; 3 males, Zhejiang, Mt. Baishanzu, 25°45'N 119°12'E, 15.VIII.2003, Jingxian Liu, SCAU 3015415–3015416, 3018694 (SCAU); 2 females, 4 males, Guangdong, Nanling Nature Reserve, 24°54'N 113°00'E, 16–21.VII.2008, Zaifu Xu, SCAU 3015417–3015422 (SCAU); 1 male, Guangdong, Mt. Chebaling, 24°43'N 114°14'E, 23–28.VII.2008, Zaifu Xu SCAU 3015423.



**FIGURES 107–112.** *Oxyscelio florus* Kononova (Kieffer), female (SCAU 3013723) **107** Dorsal habitus **108** Lateral habitus **109** Head and mesosoma, dorsal view **110** Head and mesosoma, lateral view **111** Head, anterior view **112** Metasoma, dorsal view.





**FIGURES 113–116.** *Oxyscelio florus* Kononova (Kieffer), male (SCAU 3013724) **113** Dorsal habitus **114** Lateral habitus **115** Antenna **116** Apical metasoma, dorsal view, arrow indicates acuminated lateral corner.

### *Oxyscelio granorum* Burks

<http://zoobank.org/A531A356-5AB2-4314-A0A8-727D9BAC04F3>

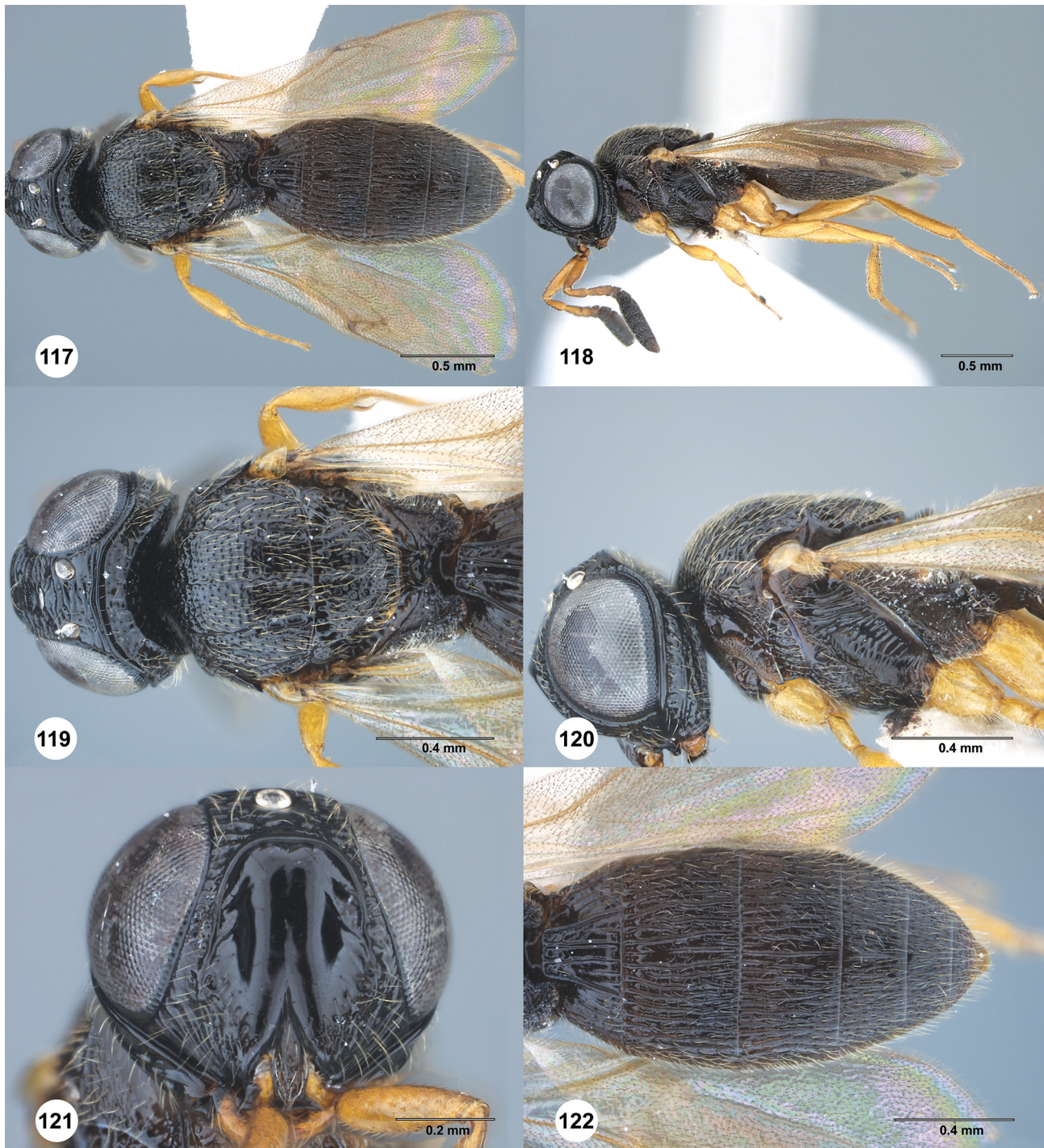
Figures 117–126

*Oxyscelio granorum* Burks, 2013: 15, 24, 144 (original description, keyed, placed in *cuculli* species group); Johnson *et al.* 2013: 32 (new distribution record for China).

**Material Examined.** *Other material:* (2 females, 13 males) **CHINA:** 1 female, Zhejiang, Mt. Tianmushan, Xianrending, 1200m, sweeping, 30°20.56'N 119°26.03'E, 25–29.VII.2011, Huayan Chen, SCAU 3013745 (SCAU); 1 male, Shanxi, Liping, forest park, 32°55'16"N 106°55'41"E, 22.VII.2004, Min Shi, SCAU 3013746 (SCAU); 1 male, Hainan, Mt. Diaoluoshan, 18°39'N 109°53'E, 16–17.VII.2006, Jingxian Liu, SCAU 3018696 (SCAU); 2 males, Zhejiang, Mt. Fengyangshan, 29°53'50"N 119°9'32"E, 30.VII.2007, Pingyi Wang, SCAU 3018707, 3015438 (SCAU); 1 male, Hainan, Mt. Bawangling, 19°07'N, 109°03'E, 07–11.VII.2008, Jingxian Liu, SCAU 3015437 (SCAU); 1 male, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1629m, Area C, forest, 21°44.619'N 100°26.721'E, 16.VIII.2018, MT, Li Ma, SCAU 3040614 (SYSBM); 2 males, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1610m, Area D, grass, MT, 21°44.746'N 100°26'E, 16.VIII–14.IX.2018, Li Ma, SCAU 3040615, 3040621 (SYSBM); 1 female, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1683m, Area A, grass, 21°45.037'N 100°26.715'E, 17.V–21.VI.2018, MT, Li Ma, SCAU 3040624 (SYSBM); 1 male, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1683m, Area A1, grass, MT, 21°45.037'N 100°26.715'E, 15.VIII–15.IX.2018, Li Ma, SCAU 3040629 (SYSBM); 1 male, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1646m, Area A1, grass, MT, 21°45.037'N 100°26.715'E, 15.VIII–15.IX.2018, Li Ma, SCAU 3040630 (SYSBM); 1 male, Yunnan, Xish-

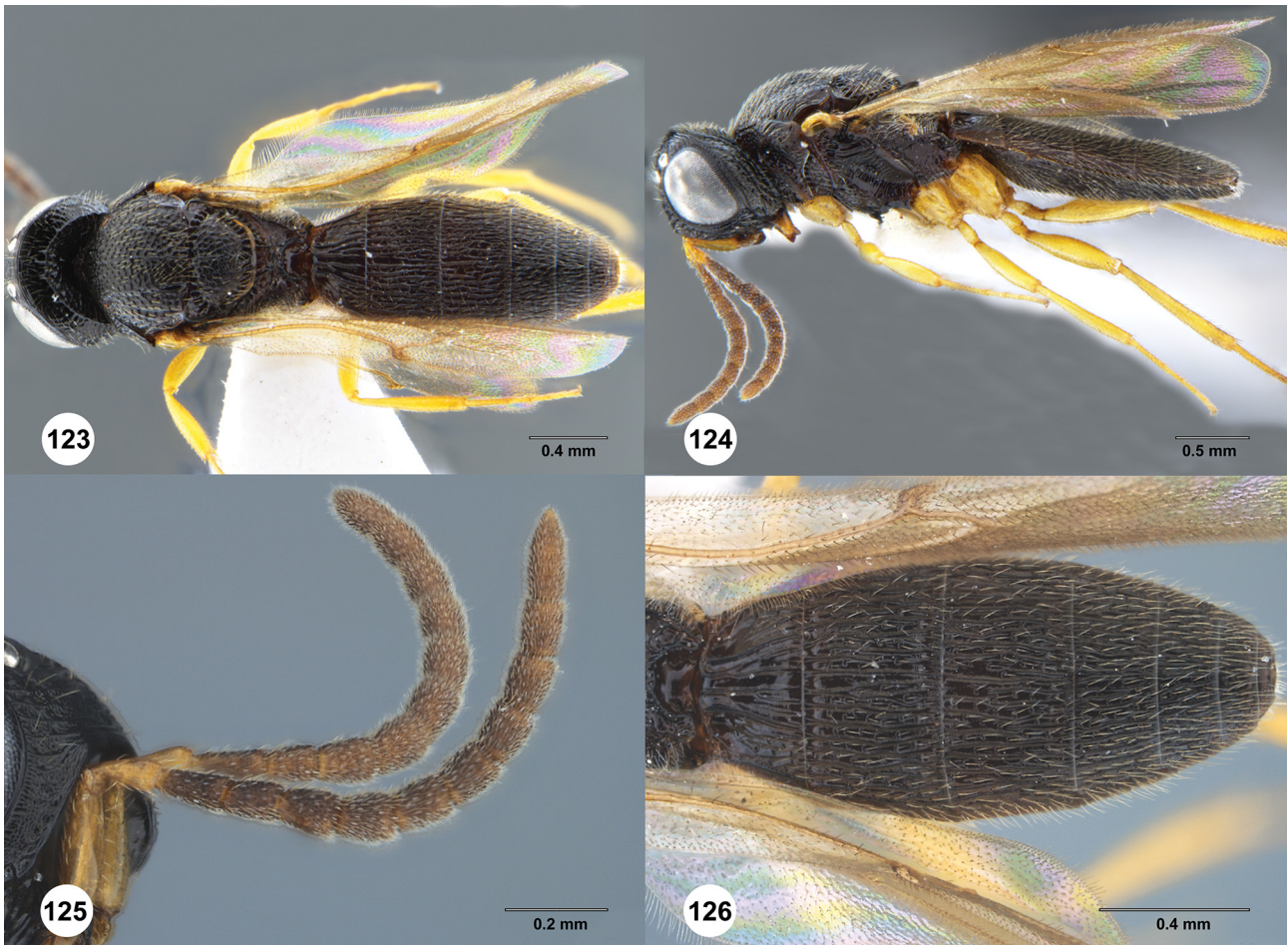


uangbanna, Menghai, Bulangshan Village, 1710m, Area A, grass, 21°44.981'N 100°26.907'E, 15.VIII.2018, MT, Li Ma, SCAU 3040631 (SYSBM); 1 male, Yunnan, Dehong, Nabang, 15.V.2009, Jie Zeng, SCAU 3040634 (SCAU); 1 male, Yunnan, Dehong, Nabang, 15.V.2010. Manman Wang, SCAU 3040635 (SCAU).



**FIGURES 117–122.** *Oxyscelio granorum* Burks, female (SCAU 3013745) **117** Dorsal habitus **118** Lateral habitus **119** Head and mesosoma, dorsal view **120** Head and mesosoma, lateral view **121** Head, anterior view **122** Metasoma, dorsal view.





**FIGURES 123–126.** *Oxyscelio granorum* Burks, male (SCAU 3013746) **123** Dorsal habitus **124** Lateral habitus **125** Antennae **126** Metasoma, dorsal view.

***Oxyscelio intermedietas* Burks**

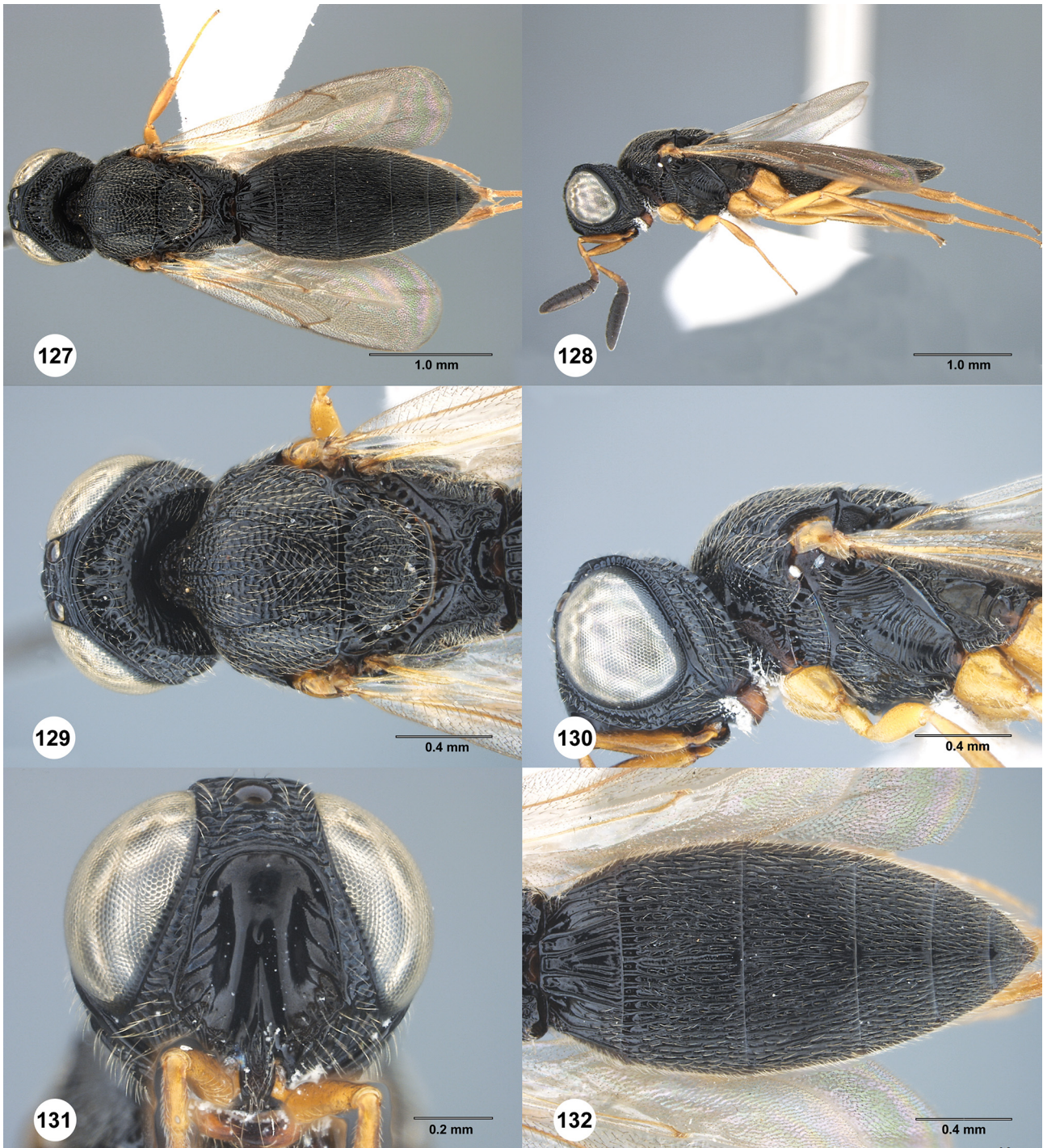
<http://zoobank.org/5902A8F2-DCD3-4FEE-9C14-AC346622EA2A>

Figures 1, 7, 127–136

*Oxyscelio intermedietas* Burks, 2013: 15, 24, 153 (original description, keyed, placed in *cuculli* species group); Johnson *et al.* 2013: 33 (new distribution record for China).

**Material Examined.** *Other material:* (8 females, 2 males) **CHINA:** 1 female, Zhejiang, Mt. Tianmushan, Xianrending, 1200m, YPT, 30°20.56'N 119°26.03'E, 25–29.VII.2011, Huayan Chen, SCAU 3013743 (SCAU); 1 male, Hebei, Xiaowutai National Nature Reserve, 41°12'42"N 116°6'54"E, 23.VIII.2005, Jingxian Liu, SCAU 3013744 (SCAU); 3 females, Guangdong, Nanling Nature Reserve, 24°54'N 113°00'E, 16–21.VII.2008, Zaifu Xu, SCAU 3015439–3015441 (SCAU); 3 females, Zhejiang, Wenzhou, Wuyanling Nature Reserve, 27°42'N 119°40'E, 28.VII–03.VIII.2005, Jingxian Liu, SCAU 3015442, 3018687, 3018689 (SCAU); 1 female, 1 male, Zhejiang, Wenzhou, Wuyanling Nature Reserve, 800 m, 27°42'N 119°40'E, XII.2005, Yiping Wang, SCAU 3015443, 3018709 (SCAU).





**FIGURES 127–132.** *Oxyscelio intermedietas* Burks, female (SCAU 3013743) **127** Dorsal habitus **128** Lateral habitus **129** Head and mesosoma, dorsal view **130** Head and mesosoma, lateral view **131** Head, anterior view **132** Metasoma, dorsal view.





**FIGURES 133–136.** *Oxyscelio intermedietas* Burks, male (SCAU 3013744) **133** Dorsal habitus **134** Lateral habitus **135** Antenna **136** Metasoma, dorsal view.

### *Oxyscelio jaune* Burks

<http://zoobank.org/B957AAA8-C08A-48C5-9065-843936BFD8C5>

Figures 137–142

*Oxyscelio jaune* Burks, 2013: 15, 24, 25, 156 (original description, keyed, placed in *florus* species group).

**Material Examined.** *Other material:* (1 female) **CHINA:** 1 female, Guangdong, Nanling Nature Reserve, 24°54'N 113°00'E, 16–21.VII.2008, Zaifu Xu, SCAU 3018682 (SCAU).

Note. This species is newly recorded from China, Guangdong Province.

### *Oxyscelio jugi* Burks

<http://zoobank.org/2D8F217A-8522-4F42-B41C-9038D798B6E7>

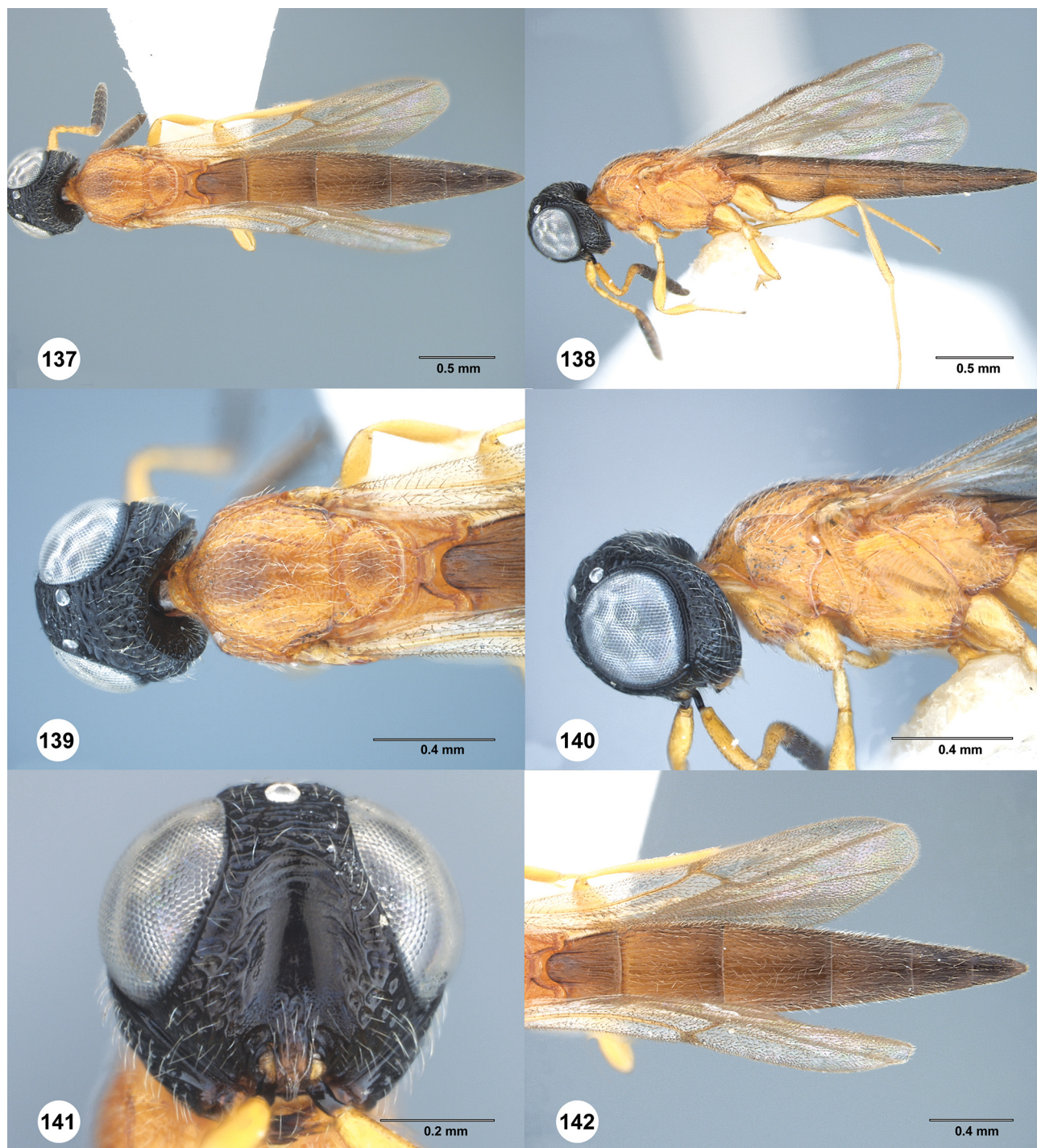
Figures 143–152

*Oxyscelio jugi* Burks, 2013: 15, 24, 25, 158 (original description, keyed, placed in *crebritas* species group); Johnson *et al.* 2013: 39 (new distribution record for China).

**Material Examined.** *Other material:* (7 females, 6 males) **CHINA:** 2 female, 1 male, Hainan, Mt. Bawangling, 19°07'N 109°03'E, 07–11.VII.2008, Jingxian Liu, SCAU 3013728, 3013737, 3018684 (SCAU); 1 male, Yunnan, Yingjiang, Tongbiguan, 24°56'5"N 98°40'16"E, 16.V.2009, Manman Wang, SCAU 3013738 (SCAU); 1 male,

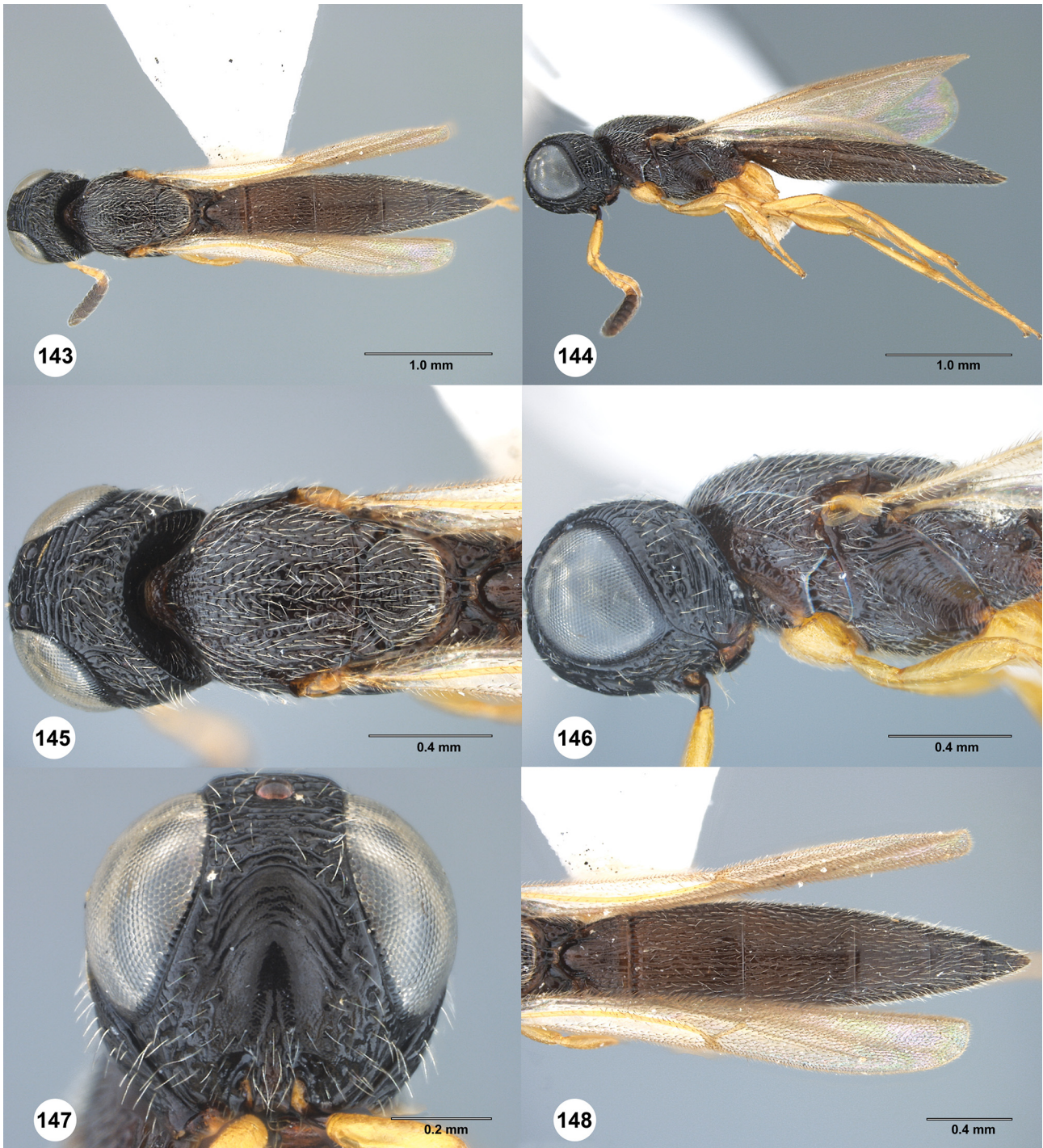


Guangdong, Mt. Chebaling, 24°43'N 114°14'E, 25.V.2002, Zaifu Xu, SCAU 3015428 (SCAU); 1 male, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1646m, Area A1, grass, MT, 21°45.037'N 100°26.715'E, 15.VIII–15.IX.2018, Li Ma, SCAU 3040641 (SYSBM); 2 females, 1 male, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1595m, Area D, forest, 21°44.761'N 100°25.959'E, 17.V.2018, Li Ma, SCAU 3040644–3040646 (SYSBM); 1 male, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1595m, Area D, forest, MT, 21°44.761'N 100°25.959'E, 16.VIII–14.IX.2018, Li Ma, SCAU 3040647 (SYSBM); 2 females, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1595m, Area D, forest, 21°44.761'N 100°25.959'E, 20.VI–20.VII.2018, MT, Li Ma, SCAU 3040648–3040649 (SYSBM); 1 male, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1610m, Area D, grass, 21°44.761'N 100°26'E, 17.V–20.VI.2018, Li Ma, SCAU 3040651 (SYSBM).



**FIGURES 137–142.** *Oxyscelio jaune* Burks, female (SCAU 3018682) **137** Dorsal habitus **138** Lateral habitus **139** Head and mesosoma, dorsal view **140** Head and mesosoma, lateral view **141** Head, anterior view **142** Metasoma, dorsal view.





**FIGURES 143–148.** *Oxyscelio jugi* Burks, female (SCAU 3013737) **143** Dorsal habitus **144** Lateral habitus **145** Head and mesosoma, dorsal view **146** Head and mesosoma, lateral view **147** Head, anterior view **148** Metasoma, dorsal view.





**FIGURES 149–152.** *Oxyscelio jugi* Burks, male (SCAU 3013738) **149** Dorsal habitus **150** Lateral habitus **151** Antenna **152** Metasoma, dorsal view.

### *Oxyscelio kiefferi* Dodd

<http://zoobank.org/E0DD3650-11B0-4D2C-934B-135E9B56790A>

Figures 153–162

*Camptoteleia flavipennis* Kieffer, 1914: 296, 297 (original description. Keyed. Preoccupied by *Xenoteleia flavipennis* Kieffer (1913b)); Kieffer, 1916: 171 (keyed); Kieffer, 1926: 380, 383 (description, keyed); Baltazar, 1966: 178 (cataloged, distribution).

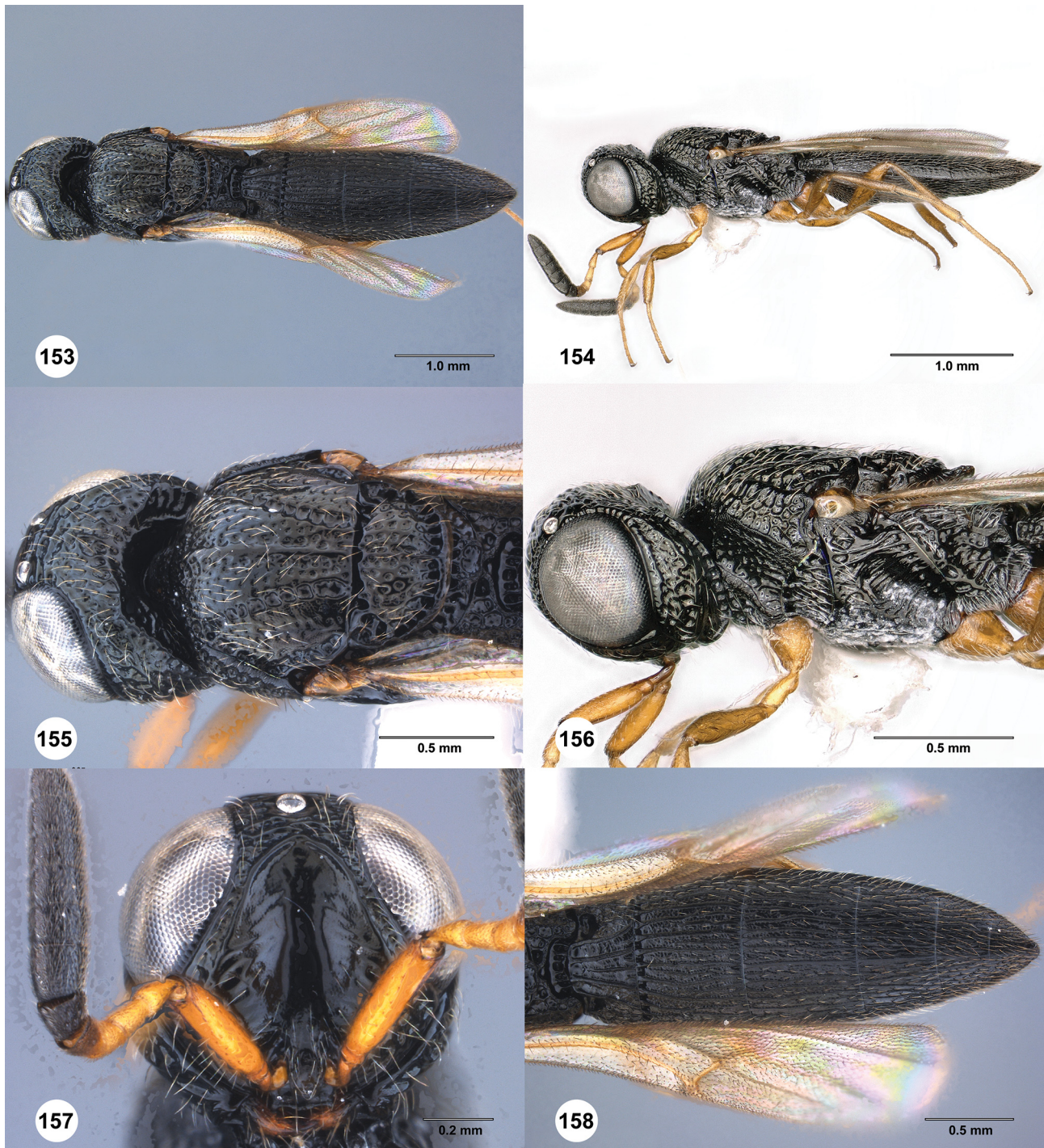
*Oxyscelio kiefferi* Dodd: Dodd, 1931: 75 (replacement name, generic transfer); Johnson, 1992: 453 (cataloged); Burks, Masner, Johnson & Austin, 2013: 15, 24, 25, 161 (description, keyed, neotype designation, distribution, placed in *crebritas* species group).

**Material Examined.** *Other material:* (3 females, 1 male) **CHINA:** 1 male, Yunnan, Dehong, Nabang, 15.V.2009, Jie Zeng, SCAU 3040601 (SCAU); 1 female, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1610m, Area D, grass, MT, 21°44.746'N 100°26'E, 16.VIII–14.IX.2018, Li Ma, SCAU 3040602 (SYSBM); 1 female, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1610m, Area D, grass, 21°44.761'N 100°26'E, 17.V–20.VI.2018, Li Ma, SCAU 3040640 (SYSBM); 1 female, Yunnan, Jinghong, Nanbanhe National Nature Reserve, YPT, 22°15'47.39"N 100°36'3.22"E, 19–23.VII.2011, Nasen Wei *et al.* SCAU 3040639 (SCAU).

**Comments.** This species was originally described based on males (Burks *et al.* 2013a). Here we record the female: Body length 3.58–3.75 mm (n=3); A4: broader than long; A5: broader than long; Antennal club: formed, segments compact; Lateral propodeal carinae anteromedially: weakly diverging; Fore wing apex: reaching apex of T4; Median lobe of T1: with 4 longitudinal carinae; T1: without anterior bulge; T2: with straight longitudinal striae or rugae; T6: broader than long; Apical flange of T6: not exposed apically; Metasomal apex: rounded. Major sculp-



ture of T6: umbilicate-punctate; Microsculpture of T6: absent. This species is newly recorded from China, Yunnan Province.



**FIGURES 153–158.** *Oxyscelio kiefferi* Dodd, female (SCAU 3040602) **153** Dorsal habitus **154** Lateral habitus **155** Head and mesosoma, dorsal view **156** Head and mesosoma, lateral view **157** Head, anterior view **158** Metasoma, dorsal view.





**FIGURES 159–162.** *Oxyscelio kiefferi* Dodd, male (SCAU 3040601) **159** Dorsal habitus **160** Lateral habitus **161** Antenna **162** Metasoma, dorsal view.

***Oxyscelio kramatos* Burks**

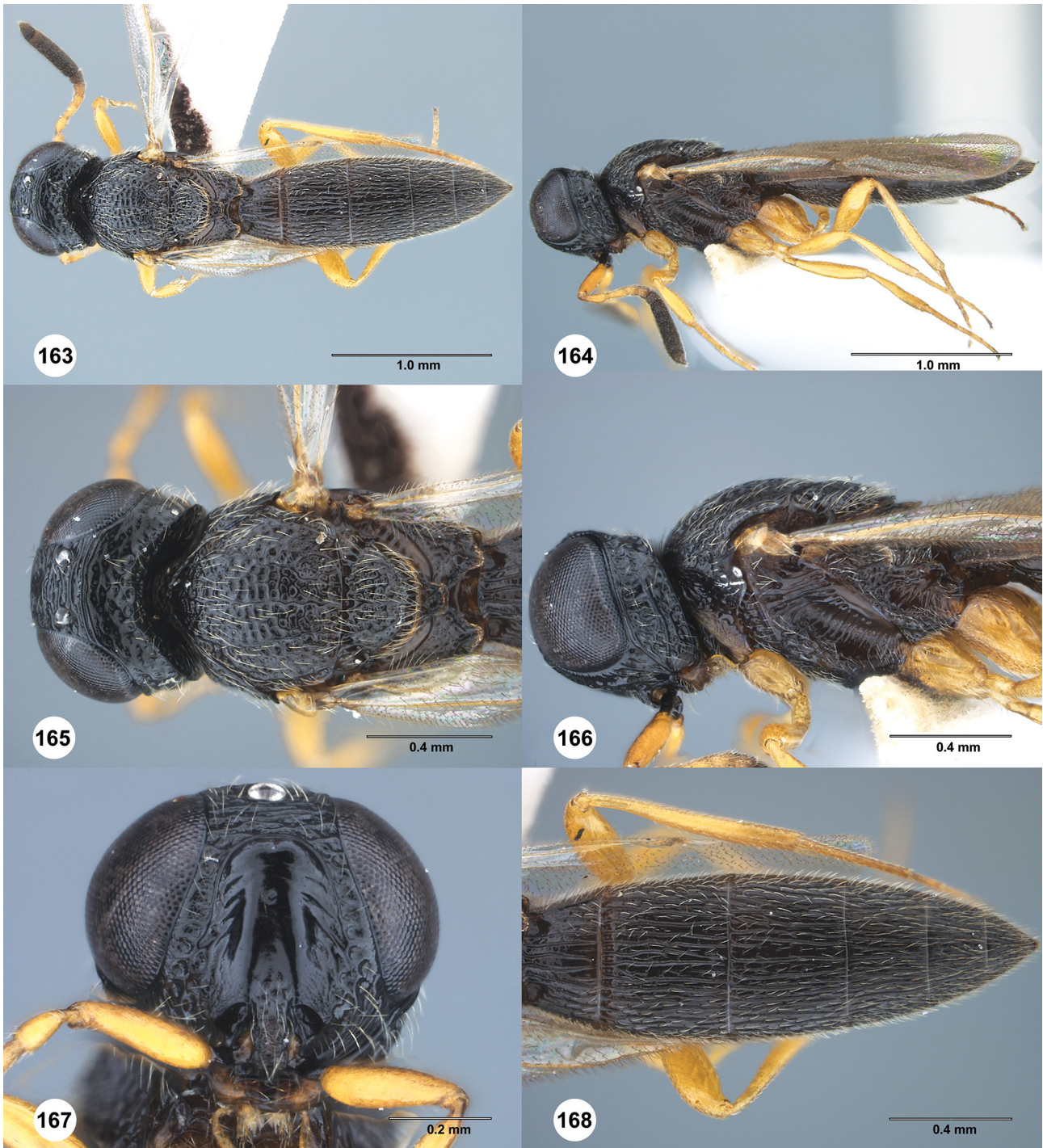
<http://zoobank.org/F06E950E-9DE5-4330-A32A-F6C42BE982C6>

Figures 163–172

*Oxyscelio kramatos* Burks, 2013: 15, 24, 25, 163 (original description, keyed, placed in *cuculli* species group); Johnson *et al.* 2013: 40 (new distribution record for China).

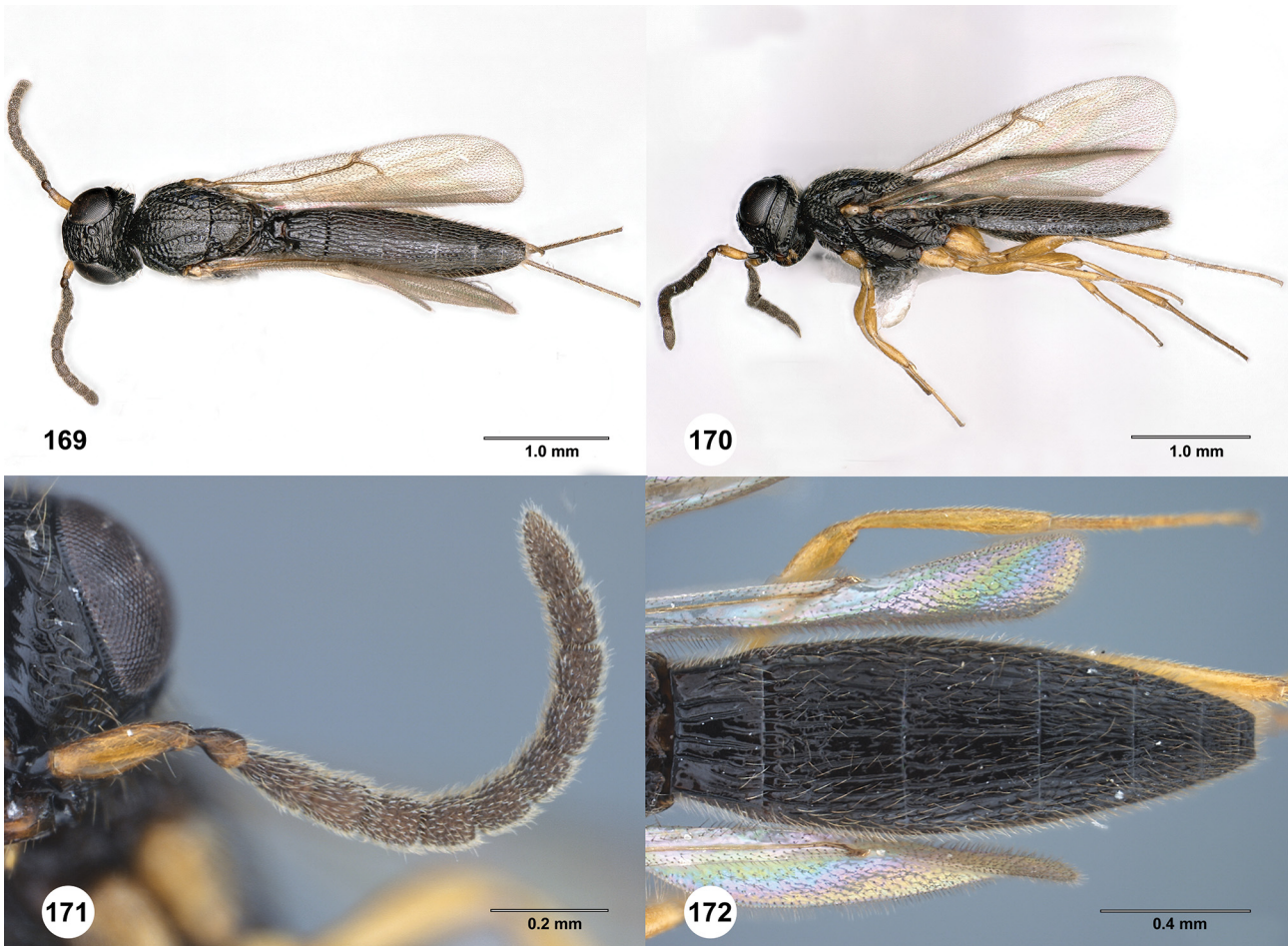
**Material Examined.** *Other material:* (3 females, 3 males) **CHINA:** 1 female, 1 male, Zhejiang, Mt. Tianmushan, Xianrending, 1200m, sweep, 30°20.56'N 119°26.03'E, 25–29.VII.2011, Huayan Chen, SCAU 3013747, 3018680 (SCAU); 1 female, 1 male, Guangdong, Nanling Nature Reserve, 24°54'N 113°00'E, 16–21.VII.2008, Zaifu Xu, SCAU 3015432, 3018695 (SCAU); 1 female, Zhejiang, Mt. Fengyangshan, 1000m, 29°53'50"N 119°9'32"E, 30.VII.2008, Jingxian Liu, SCAU 3018691 (SCAU); 1 male, Yunnan, Yingjiang, Tongbiguan, 24°56'5"N 98°40'16"E, 17.V.2009, Jie Zeng, SCAU 3040604 (SCAU).





**FIGURES 163–168.** *Oxyscelio kramatos* Burks, female (SCAU 3013747) **163** Dorsal habitus **164** Lateral habitus **165** Head and mesosoma, dorsal view **166** Head and mesosoma, lateral view **167** Head, anterior view **168** Metasoma, dorsal view.





**FIGURES 169–172.** *Oxyscelio kramatos* Burks, male (SCAU 3040604) **169** Dorsal habitus **170** Lateral habitus **171** Antenna **172** Metasoma, dorsal view.

***Oxyscelio labis* Burks**

<http://zoobank.org/7014AC65-912B-468C-8065-B739BA288373>

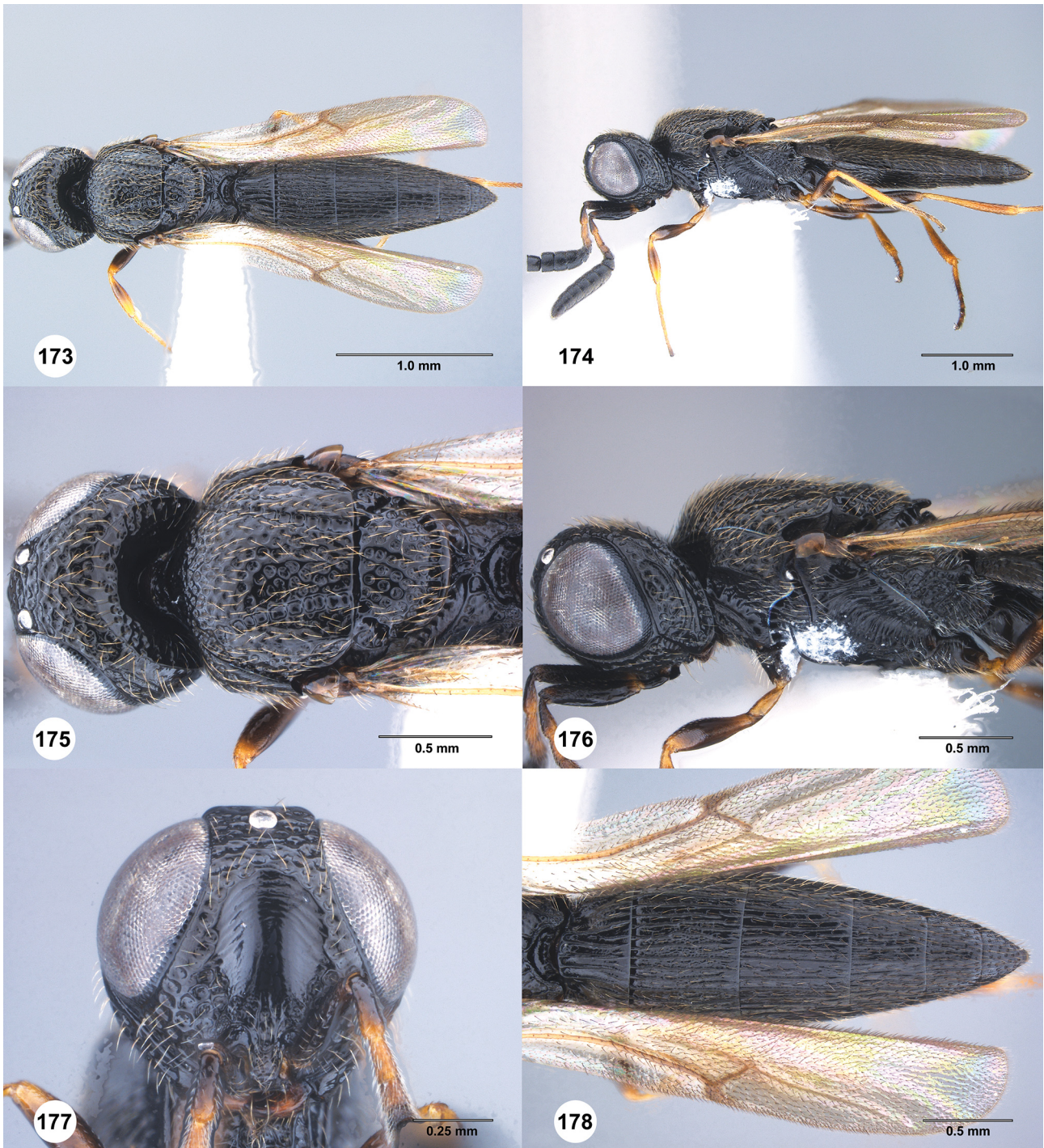
Figures 173–178

*Oxyscelio labis* Burks, 2013: 18, 24, 166 (original description, keyed, placed in *ogive* species group).

**Material Examined.** *Other material:* **CHINA:** 1 female, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1595m, Area D, forest, MT, 21°44.761'N 100°25.959'E, 20.VI–20.VII.2018, Li Ma, SCAU 3040638 (SYSBM).

**Note.** This species is newly recorded from China, Yunnan Province.





**FIGURES 173–178.** *Oxyscelio labis* Burks, female (SCAU 3040638) **173** Dorsal habitus **174** Lateral habitus **175** Head and mesosoma, dorsal view **176** Head and mesosoma, lateral view **177** Head, anterior view **178** Metasoma, dorsal view.

***Oxyscelio longiventris* Burks**

<http://zoobank.org/6BE6E08D-9977-4EC8-A7B5-50CDB92457FD>

Figures 179–182

*Oxyscelio longiventris* Burks, 2013: 15, 25, 177 (original description, keyed, placed in *crebritas* species group); Johnson *et al.* 2013: 46 (new distribution record for China).

**Material Examined.** *Other material:* (2 males) **CHINA:** 1 male, Zhejiang, Mt. Tianmushan, Xianrending, 1200m,



sweep, 30°20.56'N 119°26.03'E, 25-29.VII.2011, Huayan Chen, SCAU 3013730 (SCAU); 1 male, Guangdong, Nanling Nature Reserve, 24°54'N 113°00'E, 16-21.VII.2008, Zaifu Xu, SCAU 3015431 (SCAU).



**FIGURES 179–182.** *Oxyscelio longiventris* Burks, male (SCAU 3013730) **179** Dorsal habitus **180** Lateral habitus **181** Antenna **182** Metasoma, dorsal view.

***Oxyscelio mesiodentis* Burks**

<http://zoobank.org/DB58BA09-A681-4F93-8BC4-138E993E54DE>

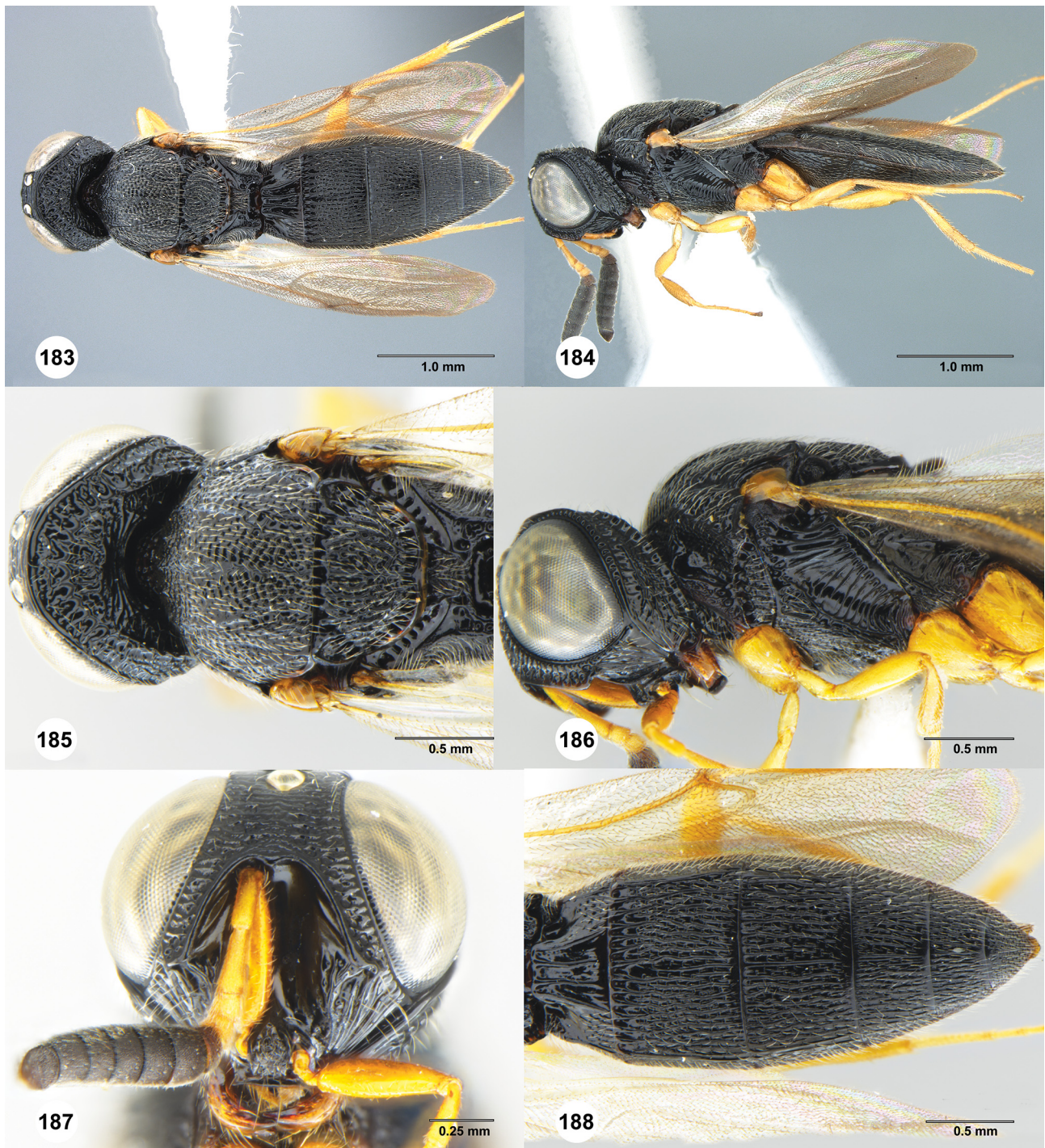
Figures 6, 183–188

*Oxyscelio mesiodentis* Burks, 2013: 15, 26, 185 (original description, keyed, placed in *cuculli* species group).

**Material Examined.** *Other material:* (1 female) **CHINA:** 1 female, Hainan, Mt. Diaoluoshan, 18°39'N 109°53'E, 28–30.V.2007, Jingxian Liu, SCAU 3018688 (SCAU).

**Note.** This species is newly recorded from China, Hainan Province.





**FIGURES 183–188.** *Oxyscelio mesiodentis* Burks, female (SCAU 3018688) **183** Dorsal habitus **184** Lateral habitus **185** Head and mesosoma, dorsal view **186** Head and mesosoma, lateral view **187** Head, anterior view **188** Metasoma, dorsal view.

***Oxyscelio mollitia* Burks**

<http://zoobank.org/E395DF2E-A099-4761-8E00-A6FDA6873030>

Figures 189–198

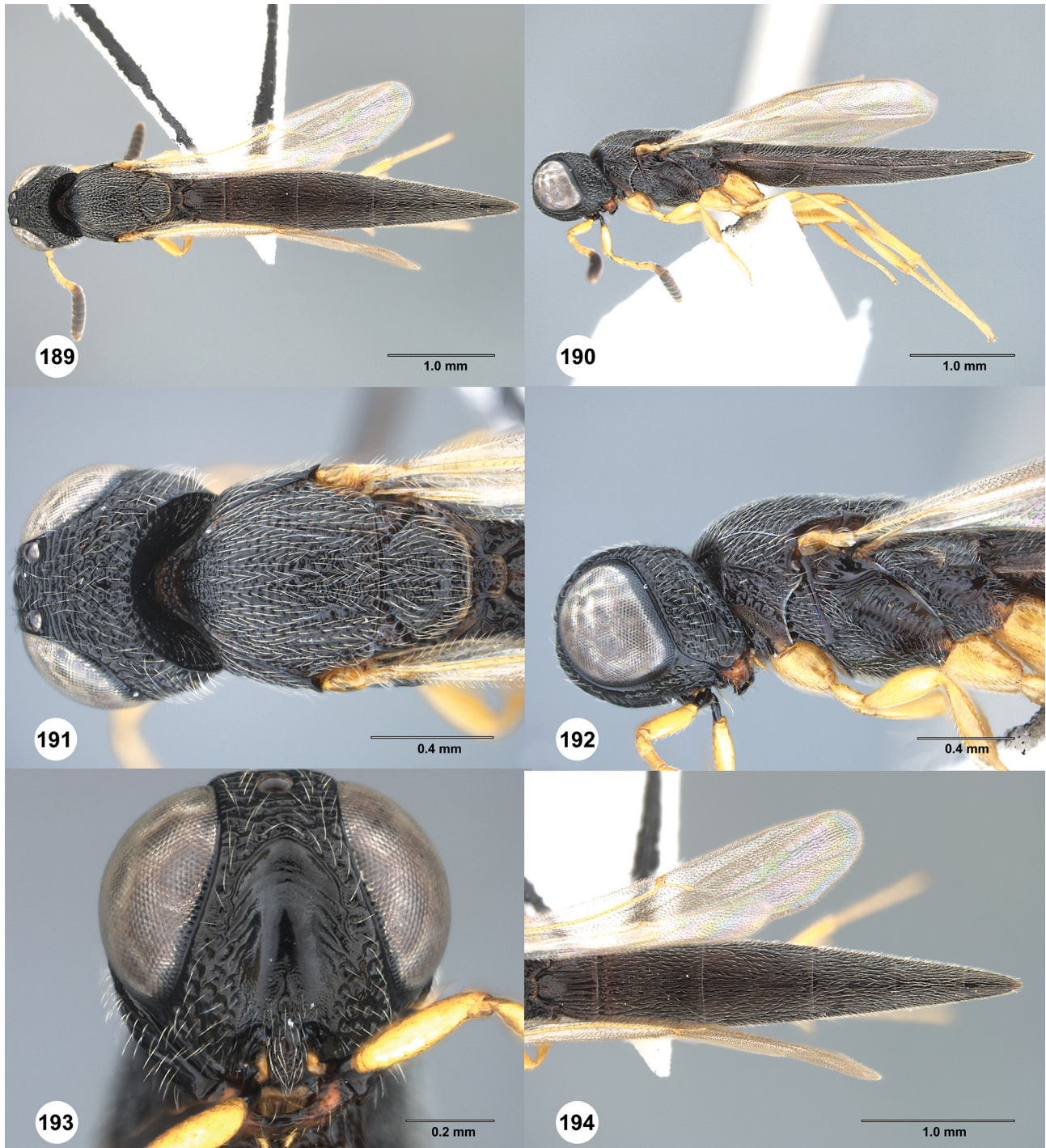
*Oxyscelio mollitia* Burks, 2013: 15, 26, 188 (original description, keyed, placed in *crebritas* species group).

**Material Examined.** *Other material:* (4 females, 2 males) **CHINA:** 1 female, Zhejiang, Wenzhou, Mt. Wuyanling, 27°42'N 119°40'E, 28.VII–03.VIII.2005, Jingxian Liu, SCAU 3018683 (SCAU); 1 male, Guangdong, Mt. Nan-



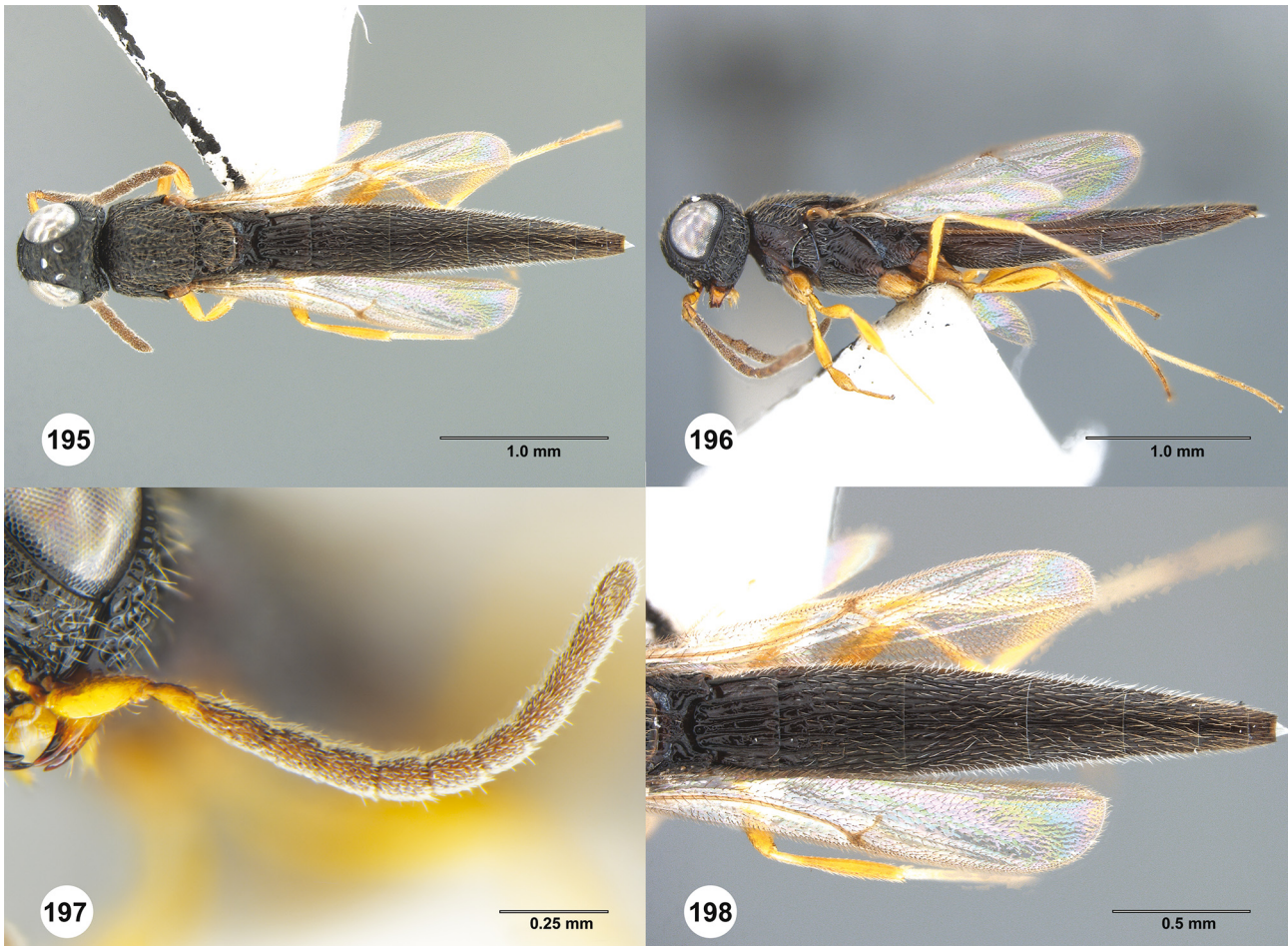
kunshan, 23°37.287'N 113°51.267'E, 01.VI.2009, Huayan Chen, SCAU 3018693 (SCAU); 1 male, Guangdong, Guangzhou, Liuxihe, 23°44'N 113°47'E, 16.VII.2003, Zhongrun Zhang, SCAU 3018748 (SCAU); 2 females, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1610m, Area D, grass, MT, 21°44.746'N 100°26'E, 16.VIII–14.IX.2018, Li Ma, SCAU 3040642–3040643 (SYSBM); 1 female, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1610m, Area D, grass, MT, 21°44.746'N 100°26'E, 17.V–20.VI.2018, Li Ma, SCAU 3040650 (SYSBM).

**Note.** This species is newly recorded from China, Zhejiang, Guangdong, and Yunnan Provinces.



**FIGURES 189–194.** *Oxyscelio mollitia* Burks, female (SCAU 3018683) **189** Dorsal habitus **190** Lateral habitus **191** Head and mesosoma, dorsal view **192** Head and mesosoma, lateral view **193** Head, anterior view **194** Metasoma, dorsal view.





**FIGURES 195–198.** *Oxyscelio mollitia* Burks, male (SCAU 3018748) **195** Dorsal habitus **196** Lateral habitus **197** Antenna **198** Metasoma, dorsal view.

***Oxyscelio naraws* Kozlov & Lê**

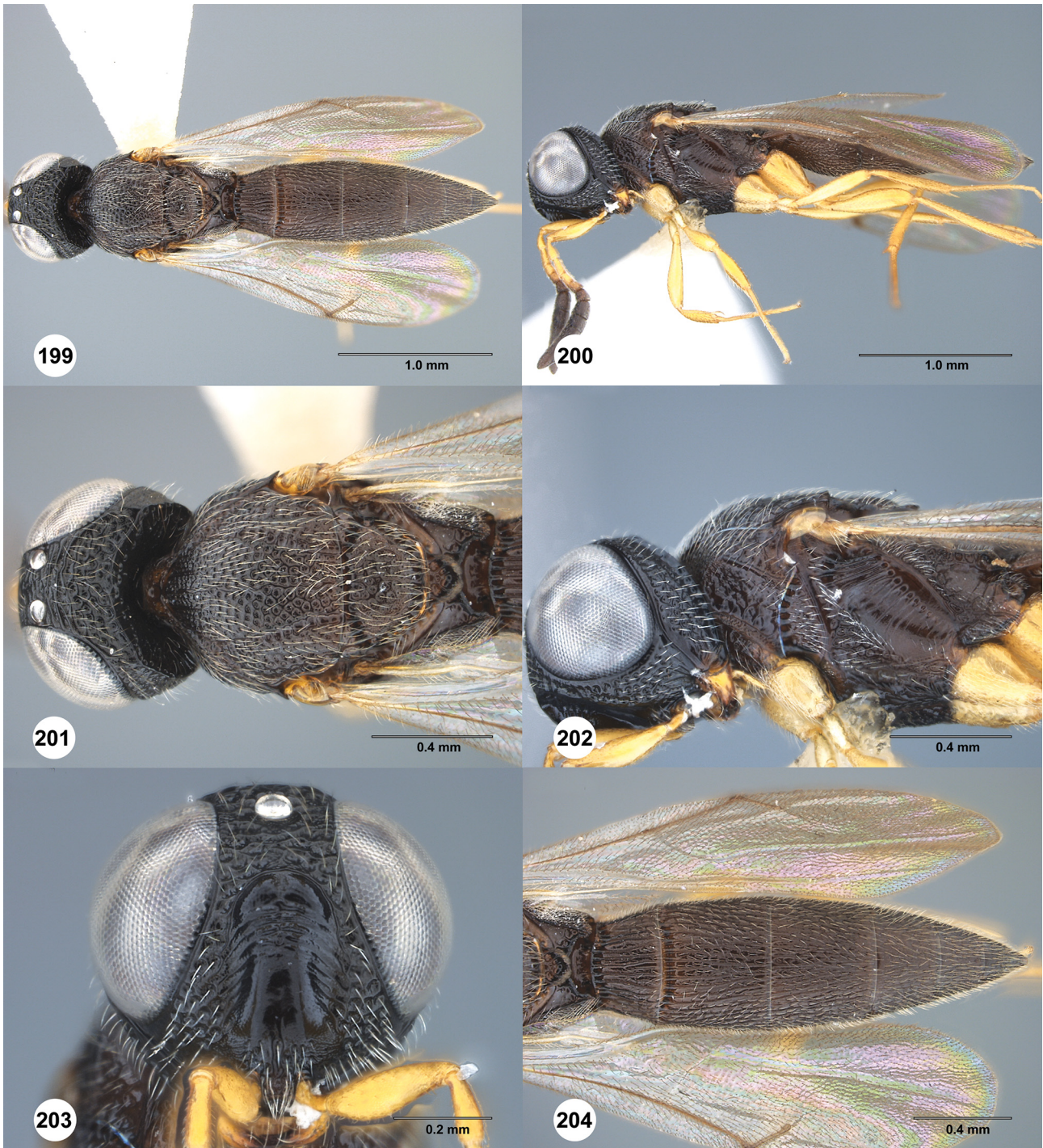
<http://zoobank.org/377E4C35-6CDC-4D4E-9C7B-537662DFB8F2>

Figures 199–208

*Oxyscelio naraws* Kozlov & Lê, 2000: 40, 326 (original description); Burks, Masner, Johnson & Austin, 2013: 17, 26, 190 (description, keyed, distribution, placed in *latitudinis* species group); Johnson *et al.* 2013: 48 (new distribution record for China).

**Material Examined.** *Other material:* (1 female, 1 male) **CHINA:** 1 female, Guangdong, Nanling Nature Reserve, 24°54'N 113°00'E, 8–17.VIII.2010, Huayan Chen, SCAU 3013740 (SCAU); 1 male, Zhejiang, Mt. Qingliangfeng, 30°04'N 118°52'E, 09.VIII.2005, Min Shi, SCAU 3013739 (SCAU).





**FIGURES 199–204.** *Oxyscelio naraws* Kozlov & Lê, female (SCAU 3013740) **199** Dorsal habitus **200** Lateral habitus **201** Head and mesosoma, dorsal view **202** Head and mesosoma, lateral view **203** Head, anterior view **204** Metasoma, dorsal view.





**FIGURES 205–208.** *Oxyscelio naraws* Kozlov & Lê, male (SCAU 3013739) **205** Dorsal habitus **206** Lateral habitus **207** Antenna **208** Metasoma, dorsal view.

***Oxyscelio nasolabii* Burks**

<http://zoobank.org/2F28C6E0-F926-4350-966C-EB8B4344D118>

Figures 13–14, 209–214

*Oxyscelio nasolabii* Burks, 2013: 17, 26, 193 (original description, keyed, placed in *foveatus* species group).

**Material Examined.** *Other material:* **CHINA:** 1 female, Zhejiang, Mt. Qingliangfeng, 30°04'N 118°52'E, 11.VIII.2005, Min Shi, SCAU 3013726 (SCAU).

**Note.** This species is newly recorded from China, Zhejiang Province.

***Oxyscelio nubbin* Burks**

<http://zoobank.org/3FFB3E2E-CC40-4A8D-970A-2F1374E38A99>

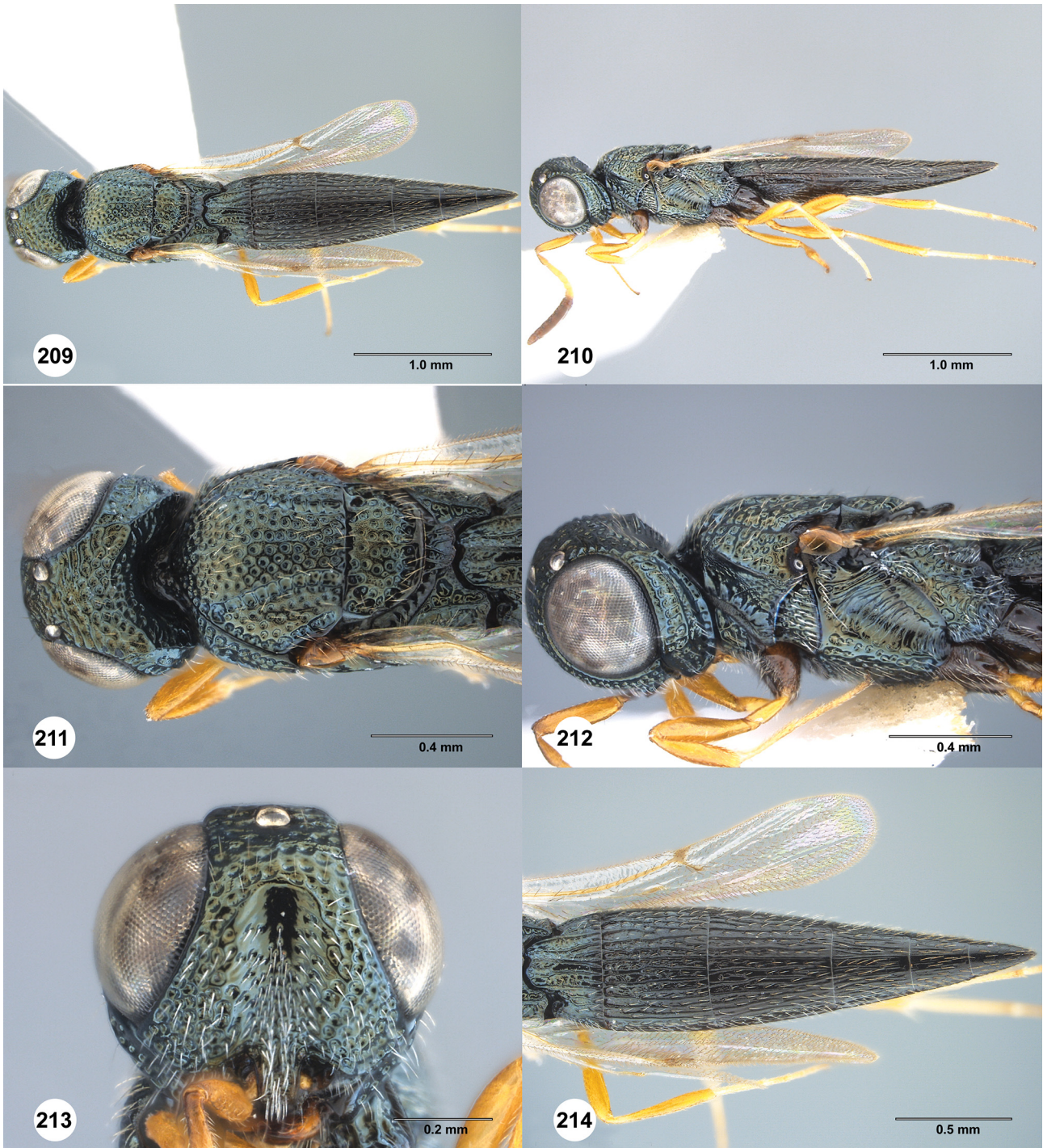
Figures 215–218

*Oxyscelio nubbin* Burks, 2013: 15, 26, 199 (original description, keyed, placed in *cuculli* species group).

**Material Examined.** *Other material:* (1 male) **CHINA:** 1 male, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1646m, Area C, grass, 21°44.521'N 100°26.647'E, 17.V–21.VI.2018, MT, Li Ma, SCAU 3040637 (SYS-BM).

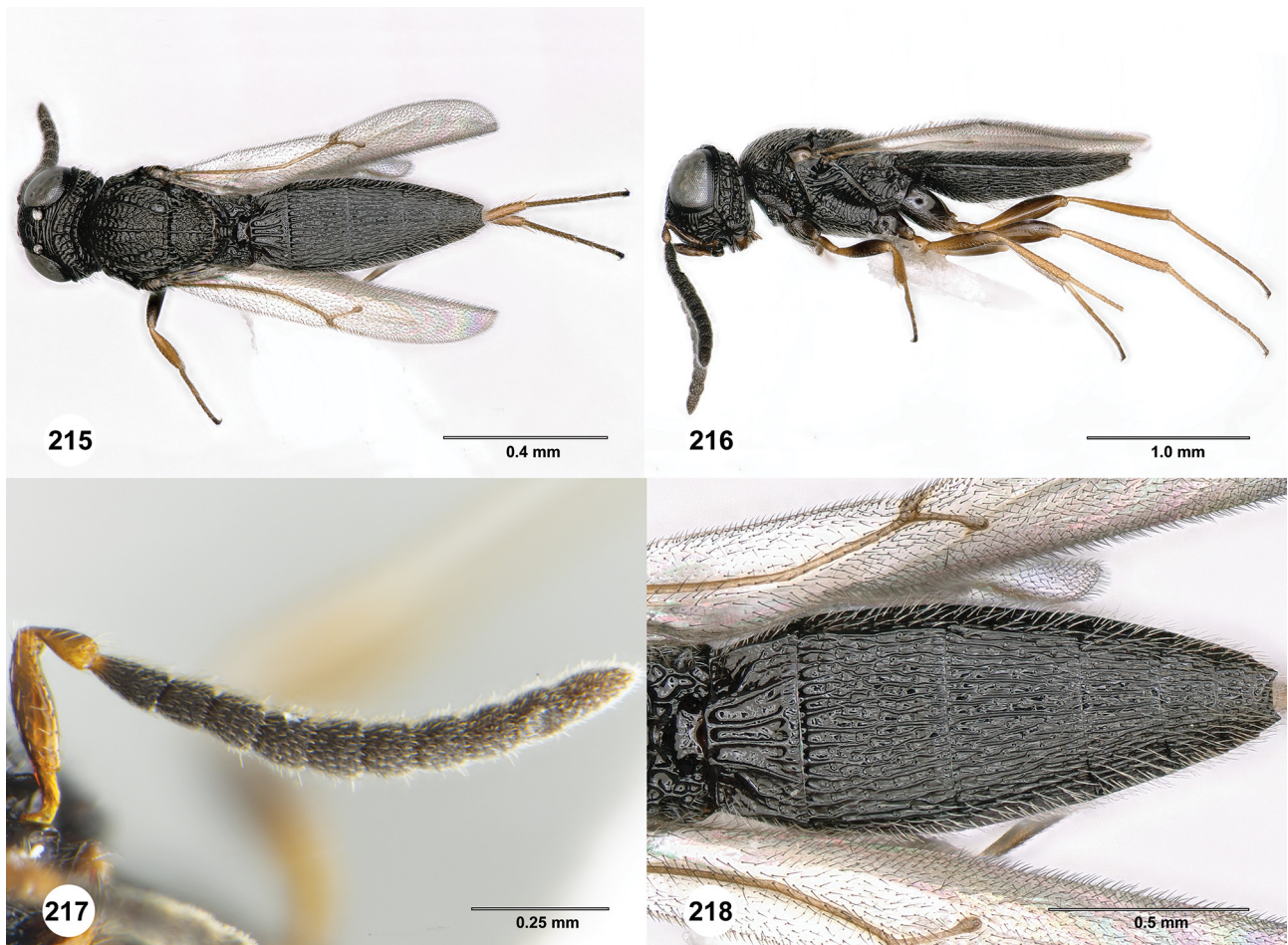
**Note.** This species is newly recorded from China, Yunnan Province.





**FIGURES 209–214.** *Oxyscelio nasolabii* Burks, female (SCAU 3013726) **209** Dorsal habitus **210** Lateral habitus **211** Head and mesosoma, dorsal view **212** Head and mesosoma, lateral view **213** Head, anterior view **214** Metasoma, dorsal view.





**FIGURES 215–218.** *Oxyscelio nubbin* Burks, male (SCAU 3040637) **215** Dorsal habitus **216** Lateral habitus **217** Antenna **218** Metasoma, dorsal view.

***Oxyscelio nullicarina* Mo & Chen, sp. n.**

<http://zoobank.org/51A8DF2B-B68D-4EFD-AEFB-60D9F2A2AA8C>

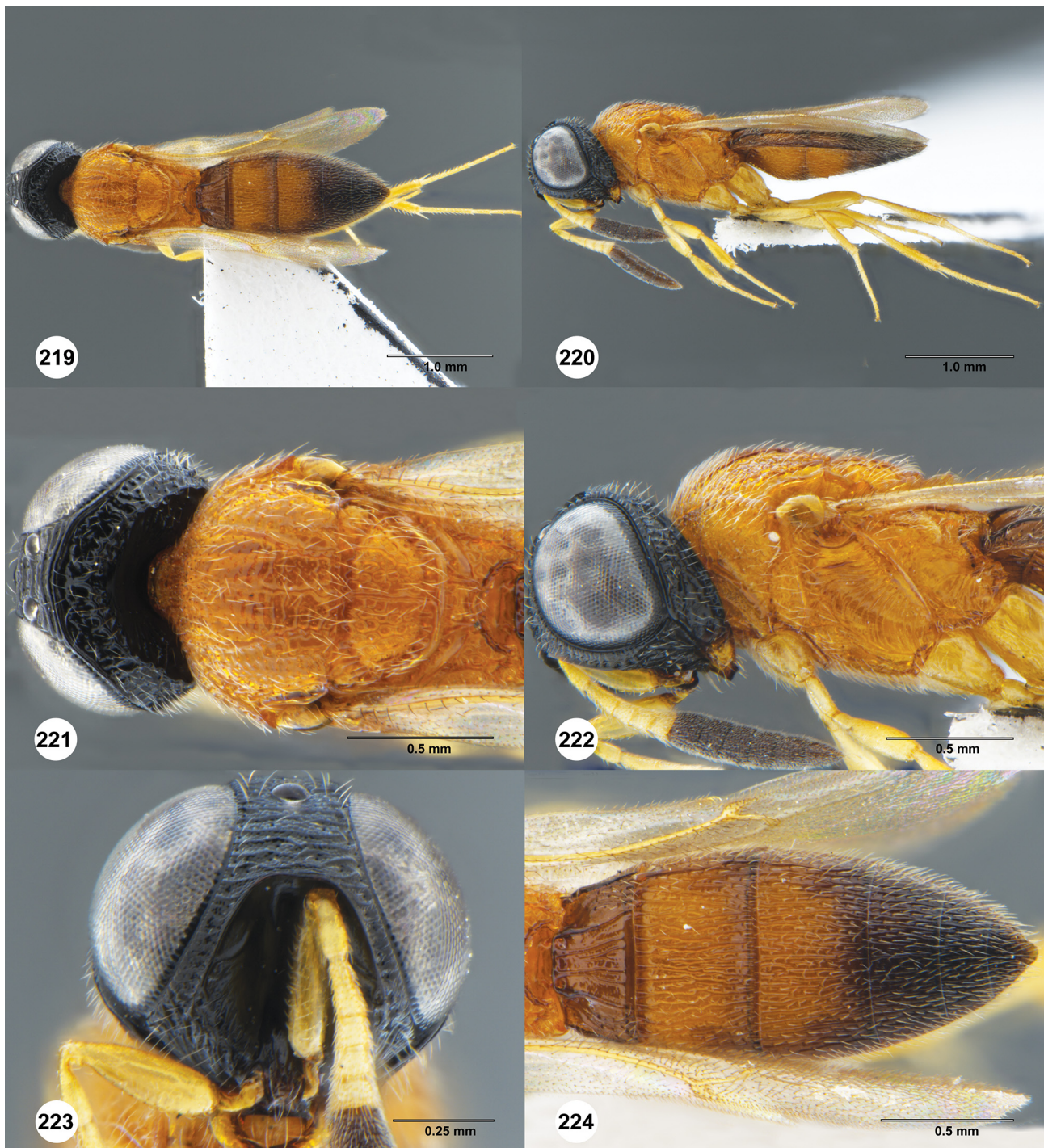
Figures 3, 8, 219–228

**Description.** Female. Body length 3.01–3.30 mm (n=6).

Radicle color: same color as scape. Scape color: yellowish. A4: broader than long. A5: broader than long. Antennal club in female: formed, segments compact.

Interantennal process: not elongate. Median longitudinal elevation in frontal depression: absent. Frontal depression: concave. Frontal depression sculpture: without transverse or oblique carinae below submedian carina. Submedian carina: strong, formed by a sharp raised carina. Submedian carina medially: without peak. Concavity across dorsal part of frontal depression: absent. Depression extending ventrally from median ocellus: absent. Upper frons: hood-like. Malar area near antennal foramen: without carina or expansion. Malar area at mouth corner: with radiating striae. Smooth strip along posterior side of malar sulcus: absent or not consistently broad. Middle genal carina: absent. Major sculpture of gena anteriorly: rugose; umbilicate-punctate. Major sculpture of gena posteriorly: absent; umbilicate-punctate. Microsculpture of gena anteroventrally: absent. Microsculpture of gena posteroventrally: absent. Median carina extending posteriorly from hyperoccipital carina: present. Hyperoccipital carina: complete, continuous with anterior genal carina. Lateral connection between hyperoccipital and occipital carinae: absent. Area between vertex and occipital carina: irregularly rugose. Occipital carina medially: uniformly rounded. Lateral corners of occipital carina: not protruding.





**FIGURES 219–224.** *Oxyscelio nullicarina* Mo & Chen, **sp. n.**, holotype, female (SCAU 3015454) **219** Dorsal habitus **220** Lateral habitus **221** Head and mesosoma, dorsal view **222** Head and mesosoma, lateral view **223** Head, anterior view **224** Metasoma, dorsal view.

Lateral pronotal area: without bulge projecting towards anterior pit. Epomial corner: weak. Netrion surface anteriorly: not inflected. Mesoscutum anteriorly: steep. Mesoscutal median carina: present and complete. Longitudinal carina between median carina and notauli: absent. Major sculpture of medial mesoscutum anteriorly: umbilicate-punctate; rugose. Major sculpture of medial mesoscutum posteriorly: umbilicate-punctate; transversely rugose. Microsculpture of medial mesoscutum anteriorly: granulate. Microsculpture of medial mesoscutum posteriorly: absent. Major sculpture of mesoscutellum: umbilicate-foveate; longitudinally rugose. Microsculpture of mesoscutellum medially: absent. Microsculpture of mesoscutellum laterally: absent. Mesoscutellar apex: convex or straight. Setae along anterior limit of femoral depression: arising from rows of foveae. Number of carinae crossing speculum



above femoral depression: 3. Number of carinae crossing femoral depression: more than 5. Mesepimeral sulcus pits: more than 5. Metascutellum dorsally: concave. Metascutellar sculpture dorsally: with scattered rugae. Median carina of metascutellum: absent. Metascutellar setae: with many dorsal setae. Metascutellar apex: weakly emarginate. Metapleuron above ventral metapleural area: crossed by carinae. Metasomal depression setae: absent. Lateral propodeal carinae anteromedially: strongly diverging. Anterior areoles of metasomal depression: absent. Anterior longitudinal carinae in metasomal depression: absent. Lateral propodeal areas: separated medially. Postmarginal vein: present. Fore wing apex: reaching beyond T6.

T1 midlobe: with 4 longitudinal carinae. T1: without anterior bulge. T2: with straight longitudinal striae or rugae. T6: broader than long. Apical flange of T6: exposed apically. Metasomal apex: rounded. Major sculpture of T6: umbilicate-punctate. Microsculpture of T6: absent.

*Male*. Body length 3.20–3.43 mm (n=3). A5 tyloid: carina-like, not expanded. A11: longer than broad. Median tooth of frontal depression: absent. Median lobe of T1: with 4 longitudinal carinae. Metasomal apex: with tiny rounded tubercles.



**FIGURES 225–228.** *Oxyscelio nullicarina* Mo & Chen, **sp. n.**, paratype, male (SCAU 3015456) **225** Dorsal habitus **226** Lateral habitus **227** Antenna **228** Metasomal apex, dorsal view.

**Diagnosis.** Both sexes: Frons without elevation between antennal foramen and eye. Hyperoccipital carina present, continuous with anterior genal carina. Medial mesoscutum transversely rugose posteriorly. Metascutellum with dorsal setae. Female: A4, A5 broader than long. T1 with 4 longitudinal carinae. Male: A5 carina-like, not expanded. Frontal depression without tooth-like median protrusion dorsally. T1 midlobe with 4 longitudinal carinae. Apex of T7 with tiny rounded tubercles. *Oxyscelio nullicarina* is similar to *O. convergens* but can be distinguished by the setose metascutellum, and the broad A4 and A5 of female.

**Etymology.** The name *nullicarina* refers to the absence of middle genal carina of this species. The epithet is used as a noun in apposition.

**Material Examined.** Holotype, female: **CHINA:** Zhejiang, Mt. Gutianshan, 29°15'20"N 118°9'18"E,



18.VIII.2003, Zaifu Xu, SCAU 3015454 (deposited in SCAU). *Paratypes*: (6 females, 3 males) **CHINA**: 1 female, Zhejiang, Mt. Gutianshan, 29°15'20"N 118°9'18"E, 18.VIII.2003, Zaifu Xu, SCAU 3018700 (SCAU); 2 females, Guangdong, Mt. Chebaling, 24°43'N 114°14'E, 21–23.VIII.2003, Jingxian Liu, SCAU 3015455, 3018699 (SCAU); 2 males, Hainan, Mt. Jianfengling, 18°41'N 108°49'E, 12–14.VII.2006, Jingxian Liu, SCAU 3015456, 3018708 (SCAU); 1 female, 1 male, Guangdong, Nanling National Nature Reserve, 9–18.VII.2004, Juanjuan Ma, SCAU 20095891, 200905875 (SCAU); 1 female, Zhejiang, Hangzhou, West Lake, 25.VIII.2003, Qiong Wu, SCAU 2011000651; 1 female, Zhejiang, Gutianshan, 3.VII.2005, Min Shi, SCAU 3040395 (SCAU).

**Comments.** Johnson *et al.* (2013) reported additional distribution records of *Oxyscelio ceylonensis* (Dodd, 1920) from China. However, when we examined the two yellowish females and one blackish male identified as *Oxyscelio ceylonensis* (Dodd, 1920) (deposited in SCAU), it turns out that these three specimens do not match any described species. Based on additional material collected from Zhejiang, Guangdong and Hainan, we describe them as a new species here.

### ***Oxyscelio ogive* Burks**

<http://zoobank.org/61291DA0-66FC-45B8-882D-7BA0CF9F6620>

Figures 9, 229–234

*Oxyscelio ogive* Burks, 2013: 18, 26, 205 (original description, keyed, placed in *ogive* species group).

**Material Examined.** *Other material*: (2 females) **CHINA**: 1 female, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1610m, Area D, grass, 21°44.761'N 100°26'E, 20.VI–20.VII.2018, Li Ma, SCAU 3040662 (SYSBM); 1 female, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1683m, Area A, grass, 21°45.037'N 100°26.715'E, 17.V–21.VI.2018, MT, Li Ma, SCAU 3040668 (SYSBM).

**Note.** This species is newly recorded from China, Yunnan Province.

### ***Oxyscelio paracuculli* Mo & Chen, sp. n.**

<http://zoobank.org/0355AE7D-8493-44AD-9087-209D3657CC30>

Figures 4, 235–240

**Description.** Female. Body length 4.60–4.75 mm (n=3).

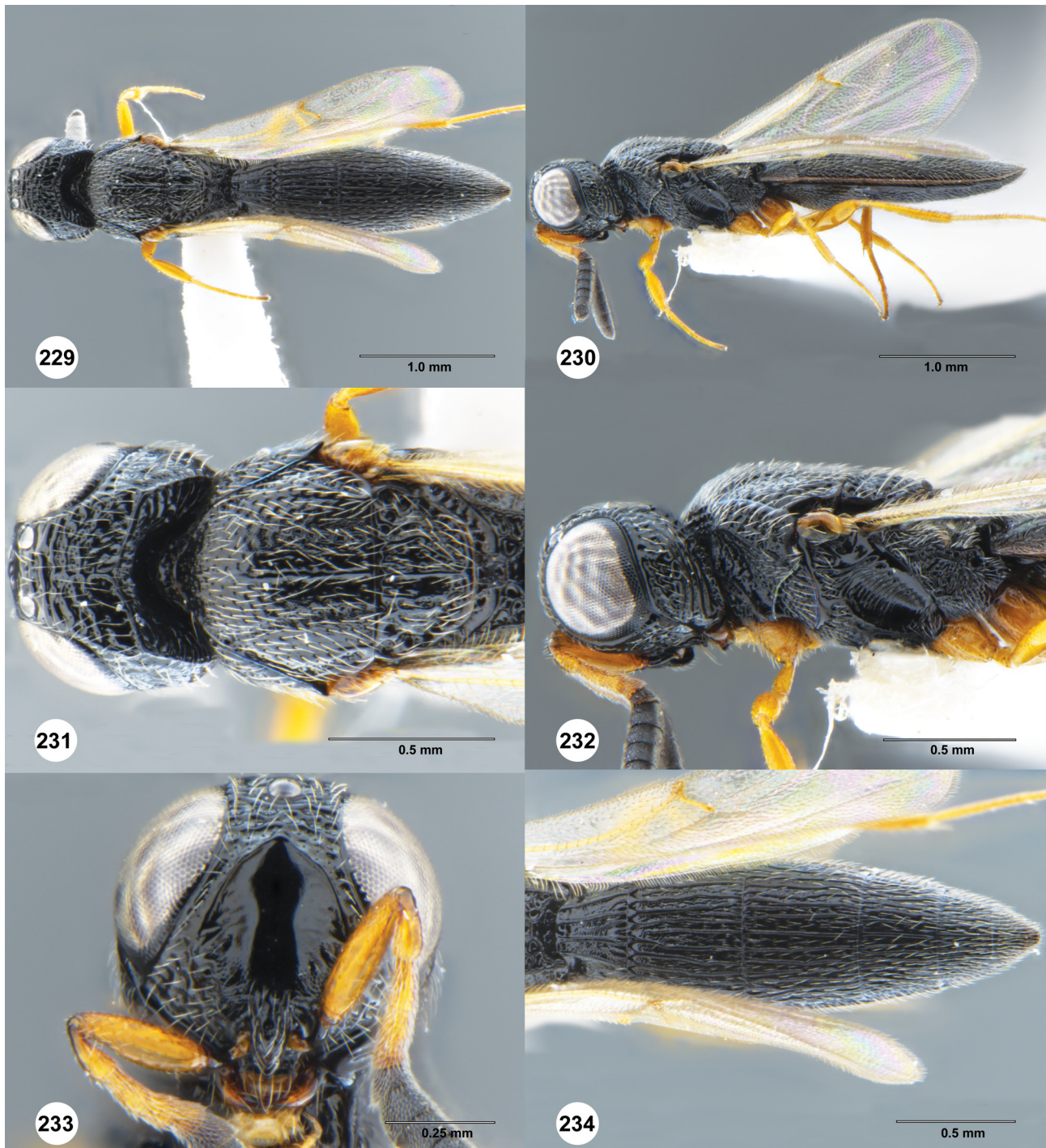
Radicle color: same color as scape. Scape color: blackish. A4: longer than broad. A5: broader than long. Antennal club: formed, segments compact.

Interantennal process: not elongate. Median longitudinal elevation in frontal depression: absent. Frontal depression: concave. Frontal depression sculpture: without transverse or oblique carinae below submedian carina. Submedian carina: strong, formed by a sharp raised carina. Submedian carina medially: without peak. Concavity across dorsal part of frontal depression: absent. Depression extending ventrally from median ocellus: absent. Upper frons: hood-like. Malar area near antennal foramen: without carina or expansion. Malar area at mouth corner: with radiating striae. Smooth strip along posterior side of malar sulcus: absent or not consistently broad. Middle genal carina: present. Direction of middle genal carina dorsally: parallel to eye margin. Major sculpture of gena anteriorly: rugose; umbilicate-punctate. Major sculpture of gena posteriorly: rugose; umbilicate-punctate. Microsculpture of gena anteroventrally: absent. Microsculpture of gena posteroventrally: absent. Median carina extending posteriorly from hyperoccipital carina: absent. Hyperoccipital carina: complete, continuous with anterior genal carina. Lateral connection between hyperoccipital and occipital carinae: present as a weak elevation. Area between vertex and occipital carina: umbilicate-punctate. Occipital carina medially: sinuate, concave medial to corners, but without a median peak. Lateral corners of occipital carina: not protruding.

Lateral pronotal area: with slight bulge projecting anteriorly towards anterior pit. Epomial corner: strong. Netri- on surface anteriorly: not inflected. Mesoscutum anteriorly: steep. Mesoscutal median carina: present and complete. Longitudinal carina between median carina and notauli: absent. Major sculpture of medial mesoscutum anteriorly: umbilicate-punctate. Major sculpture of medial mesoscutum posteriorly: umbilicate-punctate. Microsculpture of medial mesoscutum anteriorly: granulate. Microsculpture of medial mesoscutum posteriorly: absent. Major sculp-

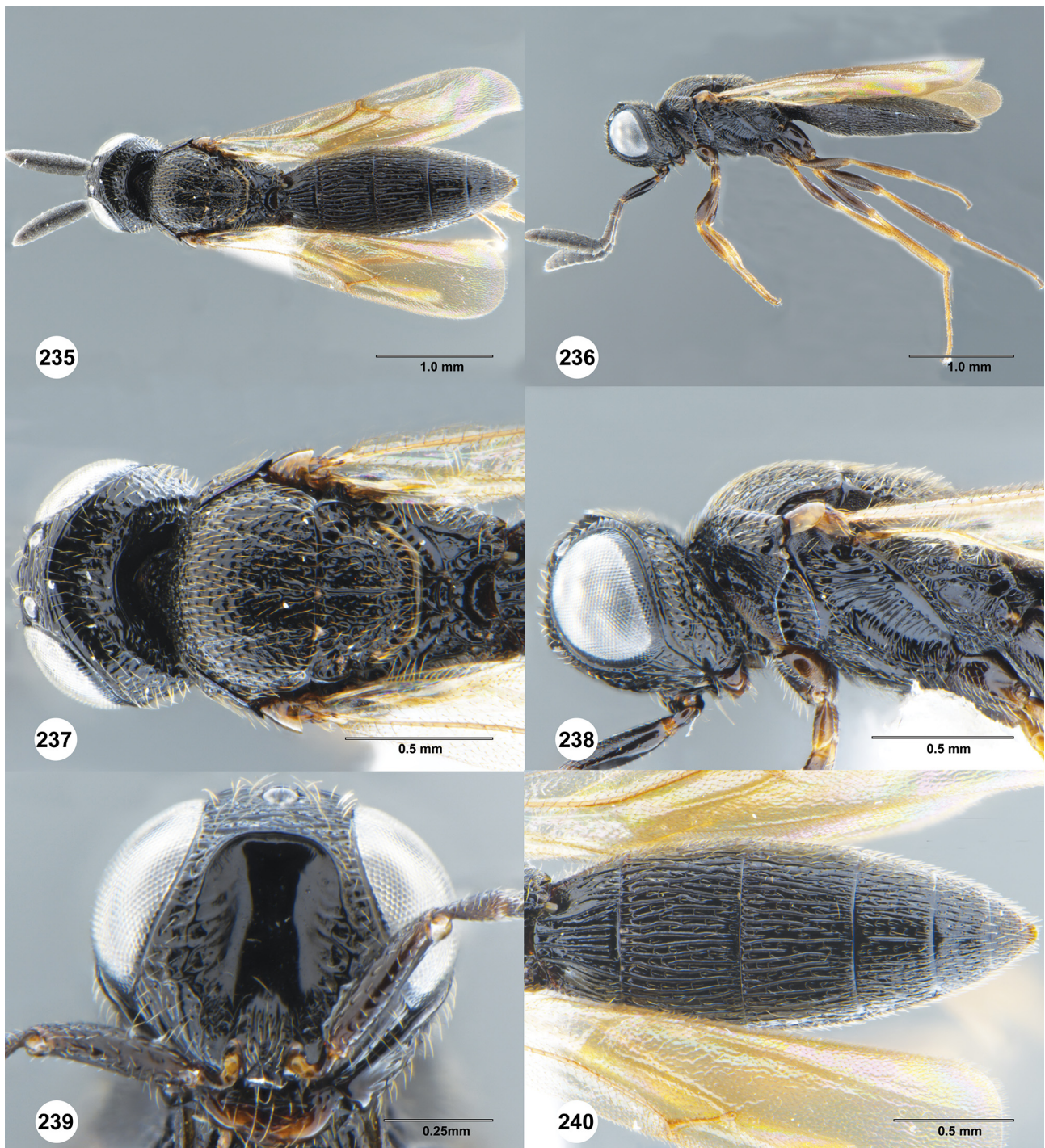


ture of mesoscutellum: umbilicate-punctate. Microsculpture of mesoscutellum medially: absent. Microsculpture of mesoscutellum laterally: absent. Mesoscutellar apex: convex or straight. Setae along anterior limit of femoral depression: arising from rows of foveae. Number of carinae crossing speculum above femoral depression: 4. Number of carinae crossing femoral depression: more than 5. Mesepimeral sulcus pits: more than 5. Metascutellum dorsally: concave. Metascutellar sculpture dorsally: with scattered rugae. Median carina of metascutellum: absent. Metascutellar setae: absent. Metascutellar apex: weakly emarginate. Metapleuron above ventral metapleural area: crossed by carinae. Metasomal depression setae: absent. Lateral propodeal carinae anteromedially: weakly diverging. Anterior areoles of metasomal depression: absent; one or more areoles present. Anterior longitudinal carinae in metasomal depression: absent. Lateral propodeal areas: separated medially. Postmarginal vein: absent. Fore wing apex: reaching beyond T6.



**FIGURES 229–234.** *Oxyscelio ogive* Burks, female (SCAU 3040668) **229** Dorsal habitus **230** Lateral habitus **231** Head and mesosoma, dorsal view **232** Head and mesosoma, lateral view **233** Head, anterior view **234** Metasoma, dorsal view.





**FIGURES 235–240.** *Oxyscelio paracuculli* Mo & Chen, **sp. n.**, holotype, female (SCAU 3040670) **235** Dorsal habitus **236** Lateral habitus **237** Head and mesosoma, dorsal view **238** Head and mesosoma, lateral view **239** Head, anterior view **240** Metasoma, dorsal view.

T1 midlobe: with 5 longitudinal carinae. T1: without anterior bulge. T2: with straight longitudinal striae or rugae. T6: broader than long. Apical flange of T6: exposed apically. Metasomal apex: rounded. Major sculpture of T6: umbilicate-punctate. Microsculpture of T6: absent.

*Male.* Unknown.

**Diagnosis.** Female: Radicle and scape blackish. A4 longer than broad. Frons without elevation between antennal foramen and eye. Hyperoccipital carina present and sharp, continuous with anterior genal carina. Mesoscutellum without granulate sculpture. Metascutellum without dorsal setae. Propodeum without median carina; lateral propodeal carinae narrowly separated anteriorly. T1 midlobe with 5 longitudinal carinae. T6 rounded apically. *Oxyscelio*



*paracuculli* is similar to *O. cuculli* but can be distinguished by the blackish radicle and scape, blackish legs, A4 of female longer than broad, and postmarginal vein absent.

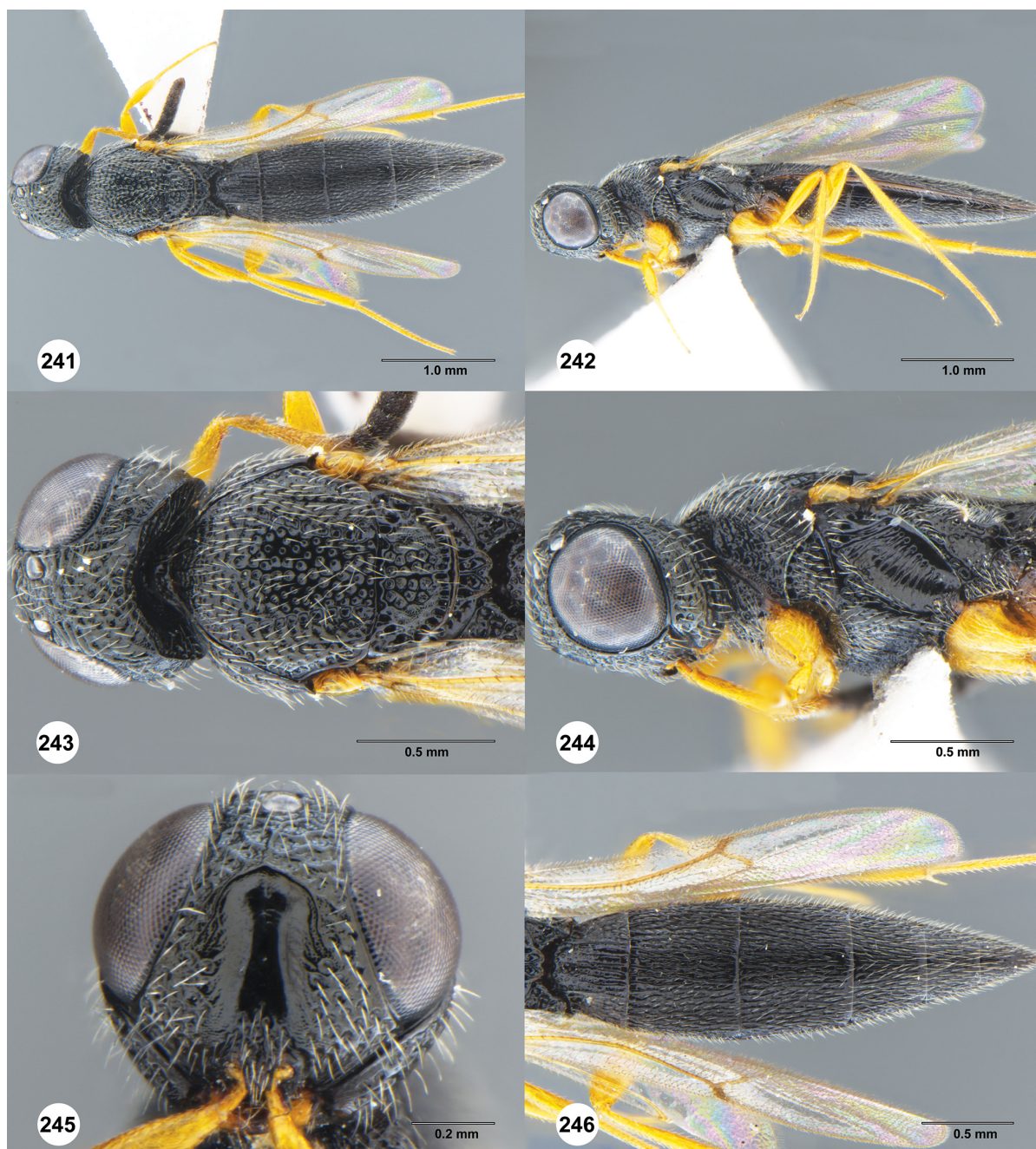
**Etymology.** The name refers to the high degree of similarity with *O. cuculli* and is intended to be used as a noun in apposition.

**Material Examined.** Holotype, female: **CHINA:** Yunnan, Lanping Dist., Mt. Lasha, 2500m, farm land, 26.324010°N 99.275624°E, 10-20.VII.2018, Jin-Ku Li, MT, SCAU 3040670 (deposited in SYSBM). *Paratypes:* (2 females) **CHINA:** 2 females, Yunnan, Lanping Dist. Mt. Lasha, 2500m, farm land, 26.324010°N 99.275624°E, 10-20.VII.2018, JinKu Li, MT, SCAU 3040441, 3040669 (SCAU).

***Oxyscelio perpensus* Kononova**

<http://zoobank.org/8323BFBD-BFC7-4DA7-9C8A-767CECA029EC>

Figures 241–246



**FIGURES 241–246.** *Oxyscelio perpensus* Kononova, female (SCAU 2011000072) **241** Dorsal habitus **242** Lateral habitus **243** Head and mesosoma, dorsal view **244** Head and mesosoma, lateral view **245** Head, anterior view **246** Metasoma, dorsal view.



*Oxyscelio perpensum* Kononova: Kononova and Fursov 2007: 104 (description); Kononova and Fursov 2007: 63 (original description).

*Oxyscelio perpensus* Kononova: Kononova and Kozlov 2008: 190, 192 (description, keyed).

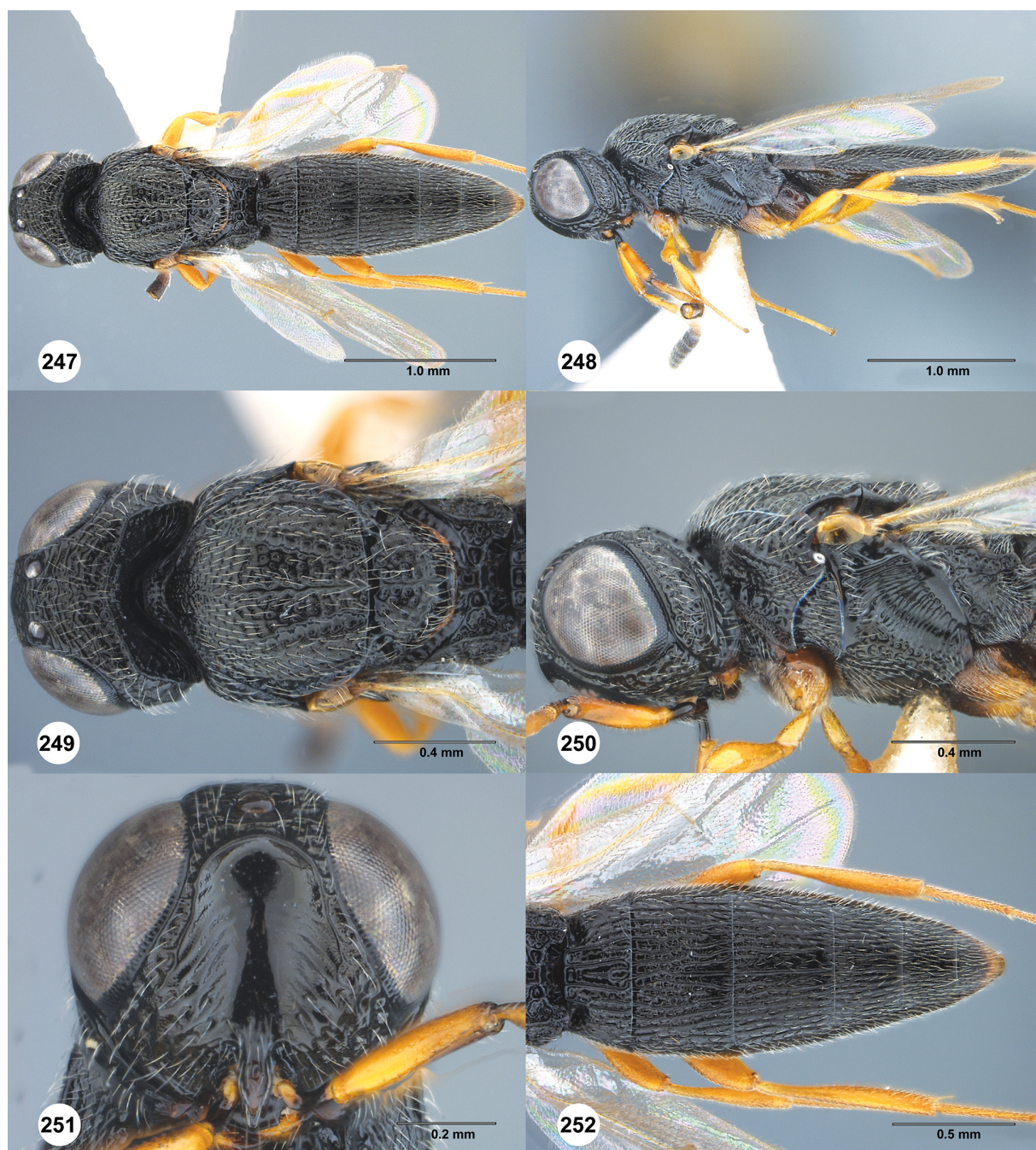
**Material Examined.** *Other material:* CHINA: 1 female, Zhejiang, Tianmushan, Xianrending, 30°20.56'N 119°26.03'E, 25–29.VII.2011, sweeping, Huayan Chen, SCAU 2011000072 (SCAU).

**Comments.** Johnson *et al.* (2013) reported a male specimen (SCAU 2011000072) from Zhejiang, but it is a female (see Figures 241–246). Therefore, the male of this species is still unknown.

***Oxyscelio planocarinae* Burks**

<http://zoobank.org/D919CE92-E6BA-4359-819D-8827A2C504E7>

Figures 247–252



**FIGURES 247–252.** *Oxyscelio planocarinae* Burks, female (SCAU 3013725) 247 Dorsal habitus 248 Lateral habitus 249 Head and mesosoma, dorsal view 250 Head and mesosoma, lateral view 251 Head, anterior view 252 Metasoma, dorsal view.



*Oxyscelio planocarinae* Burks, 2013: 27, 214 (original description, keyed); Johnson *et al.* 2013: 1 (new distribution record for China).

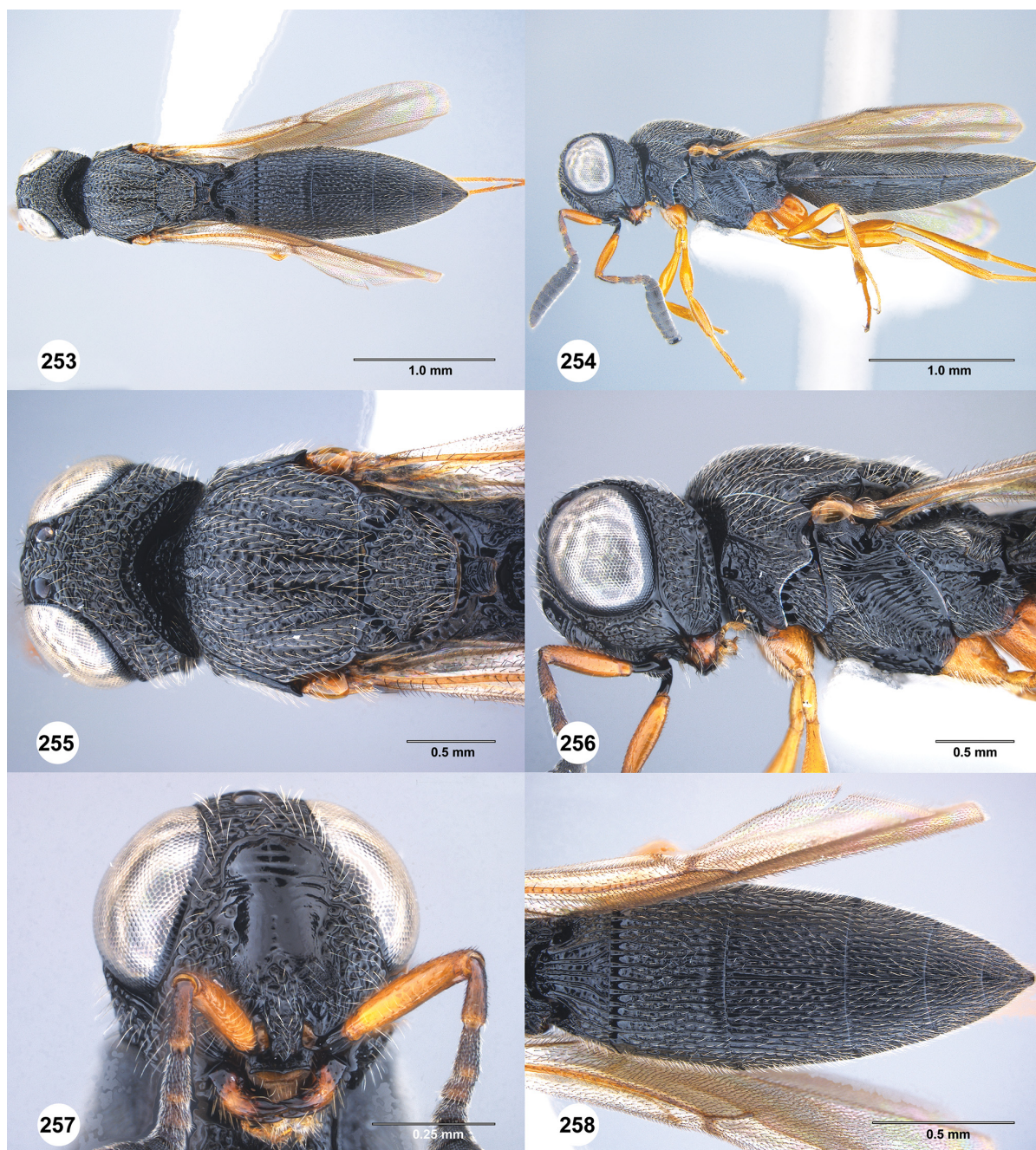
**Material Examined.** *Other material:* CHINA: 1 female, Zhejiang, Mt. Qingliangfeng, 30°04'N 118°52'E, 12.VIII.2005, Hongying Zhang, SCAU 3013725 (SCAU).

**Comments.** Johnson *et al.* (2013) reported this species from China in the abstract of their paper but without listing out this species in the text. We found one specimen (collected from Zhejiang) identified as *O. planocarinae* by NF Johnson in the collection at SCAU.

***Oxyscelio reflectens* Burks**

<http://zoobank.org/B4593C80-677A-4F9C-B118-9C60399EE7C2>

Figures 253–262



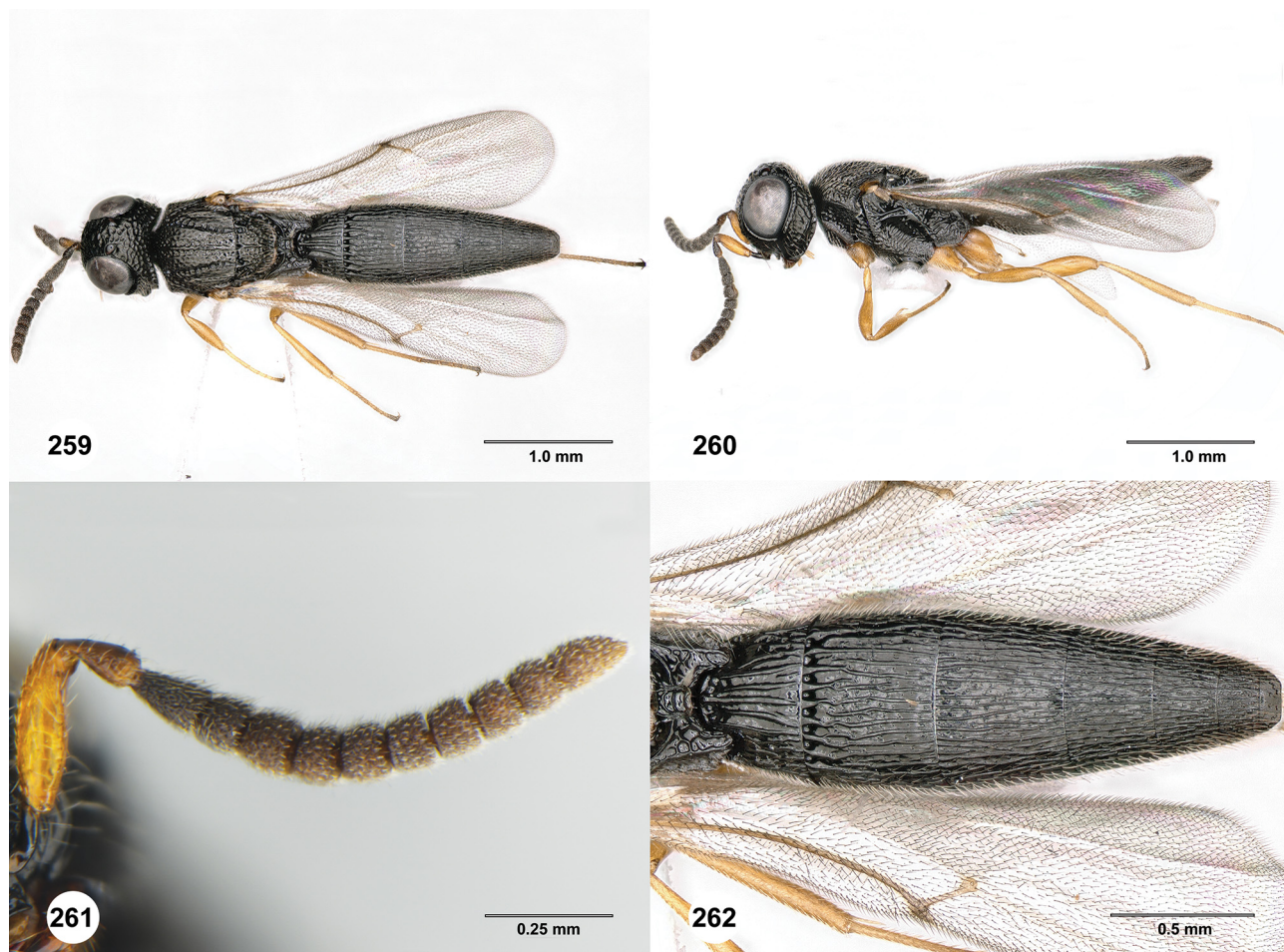
**FIGURES 253–258.** *Oxyscelio reflectens* Burks, female (SCAU 3040652) **253** Dorsal habitus **254** Lateral habitus **255** Head and mesosoma, dorsal view **256** Head and mesosoma, lateral view **257** Head, anterior view **258** Metasoma, dorsal view.



*Oxyscelio reflectens* Burks, 2013: 15, 27, 218 (original description, keyed, placed in *crebritas* species group).

**Material Examined.** *Other material:* (6 females, 3 males) **CHINA:** 1 female, Yunnan, Xishuangbanna, Menghai, Hekai Village, 1229m, farm, 21°49.831'N 100°28.334'E, 16.V–22.VI.2018, MT, Li Ma, SCAU 3040652 (SYSBM); 2 females, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1621m, Area D, near road, 21°44.745'N 100°26.07'E, 26.II–22.III.2019, MT, Li Ma, SCAU 3040653–3040654 (SYSBM); 2 females, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1610m, Area D, grass, 21°44.761'N 100°26'E, 20.VI–20.VII.2018, Li Ma, SCAU 3040661, 3040666 (SYSBM); 2 males, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1646m, Area A1, grass, MT, 21°45.037'N 100°26.715'E, 15.VIII–15.IX.2018, Li Ma, SCAU 3040663, 3040664 (SYSBM); 1 male, Yunnan, Xishuangbanna, Menghai, Bulangshan Village, 1595m, Area D, forest, MT, 21°44.761'N 100°25.959'E, 16.VIII–14.IX.2018, Li Ma, SCAU 3040667 (SYSBM).

**Note.** This species is newly recorded from China, Yunnan Province.



**FIGURES 259–262.** *Oxyscelio reflectens* Burks, male (SCAU 3040664) **259** Dorsal habitus **260** Lateral habitus **261** Antenna **262** Metasomal apex, dorsal view.

### *Oxyscelio striarum* Burks

<http://zoobank.org/DAE4E3B3-8F03-4E08-88F1-DD684EE132A1>

Figures 263–268

*Oxyscelio striarum* Burks, 2013: 18, 27, 233 (original description, keyed, placed in *striarum* species group); Johnson *et al.* 2013: 54 (new distribution record for China).

**Material Examined.** *Other material:* (3 females) **CHINA:** 1 female, Hainan, Mt. Bawangling, 19°07'N 109°03'E, 26.XI.2008, Manman Wang, SCAU 3013727 (SCAU); 1 female, Hainan, Mt. Wuzhishan, 18°51'N 109°39'E,



29.X.2007, Jingxian Liu, SCAU 3015429 (SCAU); 1 female, Hainan, Mt. Jianfengling, 18°41'N 108°49'E, 04–07.VI.2007, Jie Zeng, SCAU 3015430 (SCAU).



**FIGURES 263–268.** *Oxyscelio striarum* Burks, female (SCAU 3013727) **263** Dorsal habitus **264** Lateral habitus **265** Head and mesosoma, dorsal view **266** Head and mesosoma, lateral view **267** Head, anterior view **268** Metasoma, dorsal view.

### Acknowledgments

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