

Yaobinthrips

Generic diagnosis

Female macropterous. Head wider than long, ocellar region without sculpture; maxillary palps 3-segmented; eyes large with 5 weakly pigmented facets; ocellar setae pair I present, pair III posterior to tangent joining posterior margins of hind ocelli; five pairs of small postocular setae. Antennae 8-segmented, segment I without paired dorso-apical setae; III and IV with sense cones forked, IV with additional simple sense cone dorso-laterally; III–VI with rows of microtrichia on both surfaces. Pronotum trapezoidal, almost without sculpture lines and setae minute; four pairs of posteromarginal setae, two pairs of long posteroangulals. Mesonotum anterior campaniform sensilla present; median setal pair minute and close to posterior margin. Metanotum reticulate; median pair of setae at anterior margin; campaniform sensilla present near posterior margin. Fore wing first vein with setal row almost complete, distal four setae widely spaced; second vein setal row complete; clavus with five marginal and one discal setae; posterior cilia wavy. Prosternal ferna robust, complete medially; basantra rugose membranous, without setae; prospinasternum broad and transverse; endofurca with prominent spinula; mesosternal sternopleural sutures complete. Metasternal furca without spinula. Tarsi 2-segmented; fore femora inner margin angulate, with pointed tubercle near base; fore tibiae each with two short, broadly rounded, bulbous modified setae. Tergites V–VIII with narrow craspeda; VIII with paired ctenidia anterolateral to spiracles, VI–VII with ctenidia terminating at median lateral marginal seta, IX with two pairs of campaniform sensilla. Sternites without discal setae, III–VII with 3 pairs of marginal setae, II with two pairs; sternite VI with pair of small circular pore plates. Male sternites III–VII each with a large transverse pore plate, tergite IX without drepanae.



yangtzei antenna



yangtzei head & fore tibiae



yangtzei meso & metanota



yangtzei tergite VIII

Relationship data

Thripidae sub-family Thripinae: this is a diverse group involving more than 230 genera. *Yaobinthrips* is one of nine genera in the *Frankliniella*-group (Mound, 2002), and is probably related to *Parabaliiothrips*. The single species is unique in the group in the presence of tergal craspeda, and for the presence on each fore tibia of a curious stout, bulbous seta.

Biological data

Collected from the flowers of *Dalbergia yunnanensis* [Fabaceae] (Zhang *et al*, 2010).

Distribution data

Known only from the type series collected in Sichuan, China.

Nomenclatural data

Yaobinthrips Zhang, Mound & Xie, 2010: 65. Type species *Yaobinthrips yangtzei* Zhang, Mound & Xie, 2010, by monotypy.

Only one species is known in this genus (ThripsWiki, 2018), and this was collected in southern China:

yangtzei Zhang, Mound & Xie, 2010: 68.

References

Mound LA (2002) The *Thrips* and *Frankliniella* genus groups: the phylogenetic significance of ctenidia. Pp. 379–386 in Marullo R & Mound LA [eds] *Thrips and Tospoviruses: Proceedings of the 7th International Symposium on Thysanoptera*. Australian National Insect Collection, Canberra.

ThripsWiki (2018). *ThripsWiki - providing information on the World's thrips*. <http://thrips.info/wiki/Main_Page>

Zhang H-R, Mound LA, Xie Y-H (2010) A new genus and species from southwestern China in the *Frankliniella* genus-group (Thysanoptera: Thripidae). *Zootaxa* **2729**: 65–68.