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Nomenclatural changes within West Indian Acanthocinini (Coleoptera: Cerambycidae: Lamiinae)

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The genus *Styloleptus* Dillon, 1956 belongs in the Acanthocinini, one of the largest tribes within the subfamily Lamiinae. This tribe has been plagued by a myriad of taxonomic problems due to the cryptic and extremely variable morphology. There are currently 22 species within the genus *Styloleptus* and they are mainly restricted to the West Indies (Monné & Bezark, 2010) with all of them occurring there except one that is found only in Central America (Belize). Two other species reach the US mainland. One of them, *S. biustus* LeConte, 1852, is the type-species.

Dillon (1956) first described this genus for the two species found in the United States, not knowing where the highest diversity of the genus resided. Styloleptus is characterized by the broad, lateral pronotal tubercle placed generally at basal third, the pronotal disk without distinct tubercles, the subdepressed pronotum, and the head with a convex frons. Many species from the West Indies had already been described in other genera, but it was Gilmour (1963) who transferred them into Styloleptus and described two more species. He also erected the genus Antilleptostylus citing the following as differing features: "elytra without costae and with a centrobasal setose tubercle and the prosternal process about three-quarters as broad as procoxal cavity, not about a quarter to a third." Thorough examination of numerous specimens of several different genera within Acanthocinini (including Leptostylopsis Dillon, 1956, Leptostylus LeConte, 1852, Styloleptus, and Antilleptostylus) has been done looking into the validity of the prosternal width (among other characters) to distinguish between closely related genera. The differences noted by Gilmour of Antilleptostylus from Styloleptus are simply variation rather than of generic significance. Smaller specimens sometimes lack distinct costae and the centrobasal tubercle (a tuft rather than a tubercle) can sometimes be prominent or represented by only a dark spot. The variation seen in the prosternal processes is not sufficiently dissimilar to be a generic difference, and is mostly associated with gender. Females usually have a broader prosternal process and males usually have a broader procoxal cavity since they commonly have more robust legs. I conclude that the slight differences seen between species and sexes is quite variable and that the definition of a genus, at least of those examined here, should not rest on such a labile character.

Some species now found within *Styloleptus* were formerly placed within *Leptostylus* or the closely allied genus *Leptostylopsis*, but these two genera have distinctly tuberculate pronotal disks and they have the lateral pronotal tubercles placed more at the middle of the sides. One such species, *L. gundlachi* Fisher, was placed into *Leptostylopsis* by Gilmour (1963) and subsequently transferred into *Styloleptus* by Chalumeau & Touroult (2005). An examination of specimens of *L. gundlachi* does, in fact, reveal the pronotum to possess distinct broad discal tubercles, thereby excluding it from the genus *Styloleptus*.

The purpose of this note is to propose a new synonym for the genus *Styloleptus* and resolve the taxonomic problem surrounding *L. gundlachi* Fisher. A key to the species of *Styloleptus* will be provided at a later time pending conclusion of a revisionary work. The following acronyms are used in this paper: American Museum of Natural History, New York, NY, USA (AMNH); Julio and Charyn Micheli Private Collection, Ponce, PR, USA (JAMC); Museum of Comparative Zoology, Harvard University, Cambridge, MA, USA (MCZC); and National Museum of Natural History, Smithsonian Institution, Washington, DC, USA (USNM).

Leptostylopsis gundlachi (Fisher, 1925) REINSTATED

Leptostylus gundlachi Fisher, 1925: 2. Type locality: Puerto Rico, Aibonito. (AMNH). Leptostylus oakleyi Fisher, 1935b: 54. Type locality: Puerto Rico, Bayamón. (USNM); Micheli & Micheli, 2004:30.

Type material examined: Paratype of *Leptostylus gundlachi*, PUERTO RICO: Aibonito, P.R., July 14-17, '14 (USNM, 1♀). Holotype of *Leptostylus oakleyi*, PUERTO RICO: Bayamón, P.R., III-10-1934, At light, San Juan 5257 (USNM, ♀).

Remarks: Because of its pronotum with the lateral tubercle placed more towards the middle and the pronotal disk with distinct calli, *L. gundlachi* Fisher, 1925 is returned to the genus *Leptostylopsis* as was first proposed by Gilmour (1963), and is in accordance with the redefinition of the genus given by Lingafelter & Micheli (2009).

Styloleptus Dillon, 1956

Styloleptus Dillon, 1956: 158. Type species: Leptostylus biustus LeConte, 1852, by original designation (MCZC). Antilleptostylus Gilmour, 1963: 73. Type species: Leptostylus nigricans Fisher, 1935, by monotypy and original designation (USNM). NEW SYNONYMY.

Styloleptus brunneofasciatus (Fisher, 1935) NEW COMBINATION

Leptostylus brunneofasciatus Fisher, 1935a: 205. Type locality: Jamaica, Mandeville. (USNM).

Type material examined: Holotype, JAMAICA, Mandeville, Apr.06. Van Duzee Collector (USNM, ♂).

Styloleptus guilartensis (Micheli & Micheli, 2004) NEW COMBINATION

Antilleptostylus guilartensis Micheli & Micheli, 2004: 20. Type locality: Puerto Rico, Guilarte Forest. (USNM).

Type material examined: Holotype, PUERTO RICO, Guilarte Forest, 11-I-1980, beating dead branches, J. Micheli, coll. (USNM, ♂)

Styloleptus nigricans (Fisher, 1935) NEW COMBINATION

Leptostylus nigricans Fisher, 1935b: 55. Type locality: Puerto Rico, Villalba. (USNM). Leptostylus puertoricensis Fisher, 1935b: 56. Type locality: Puerto Rico, Adjuntas. (USNM); Micheli & Hovore, 2003:2. Antilleptostylus nigricans; Gilmour, 1963:73.

Type material examined: Holotype of *Leptostylus nigricans*, PUERTO RICO, vegetative debris, Ins. Gov. Finca, Villalba, P.R., Coll. 18 June 34, R.G. Oakley (USNM, $\$). Holotype of *Leptostylus puertoricensis*, PUERTO RICO, Unknown tree, Pietri Finca, Adjuntas, P.R., Coll. 10 July 33, R.G. Oakley (USNM, $\$).

Non-type material examined: PUERTO RICO: Aguirre State Forest off Rd. 7710, 17°59'N, 65°09'W, *Conocarpus erectus* L. (Combretaceae), 2 July 2002, Beating, Steven W. Lingafelter (USNM, $2\mapstrip{?}$); Maricao For. Carr. 120, km 9-15, 18°08'45"N, 66°58'52"W, 14 June 2002 – 850-950m, Beating vegetation, Steven Lingafelter (USNM, $3\mapstrip{?}$, $2\mapstrip{?}$); same data as previous except 19 June 2003 (USNM, $2\mapstrip{?}$, $1\mapstrip{?}$); same data as previous except Charyn Micheli/ Nilsen Micheli

(JAMC, $1 \circlearrowleft$) same data as previous except 29 July 2004, Steven W. Lingafelter (USNM, $1 \circlearrowleft$); Maricao For. "Merendero" area near Carr. 120, 850m, 18°08'45"N, 66°58'52"W, 15 June 2002, Beating, Steven W. Lingafelter (USNM, $1 \circlearrowleft$, $3 \circlearrowleft$); Susúa For., 18°4.29'N, 66°55.35'W, 18 June 2002; along creek, Beating vegetation, Steven W. Lingafelter (USNM, $1 \circlearrowleft$); Maricao Forest, Rd. 120 Km 13.8, 26-IV-1980, beating foliage, J & N Micheli, col. (JAMC, $1 \circlearrowleft$); same data as previous except 24-IV-1989 (JAMC, $2 \circlearrowleft$); same data as previous except 3-V-1980, dead branches, J Micheli, col. (JAMC, $1 \hookrightarrow$); same data as previous except 10-V-1980, dead foliage (JAMC, $1 \hookrightarrow$); Maricao Forest, Rd. 120, Km 15.9, 3-X-1981m dead branches, J. Micheli col. (JAMC, $1 \hookrightarrow$); same data as previous except 10-X-1981 (JAMC, $1 \hookrightarrow$); same data as previous except 17-X-1981 (JAMC, $1 \hookrightarrow$); Caribbean National Forest, El Yunque trail to Mt. Britton, 650-800 m, 18°18'19"N, 65°47'30"W, Beating vegetation, 27 June 2002, C.J. Micheli (JAMC, $1 \circlearrowleft$).

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