

A CATALOGUE OF THE FAMILY SCIARIDAE (DIPTERA)
OF THE AMERICAS SOUTH OF THE UNITED STATES¹

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ABSTRACT. A catalogue of the species of the family Sciaridae of the Americas south of the United States is presented. There are 193 species considered valid, which are placed in 29 genera, except for 9 unrecognizable, unplaced species. *Neosciara* (*Dendrosciara*) is synonymized to *Eurobradysia*; *Neosciara* (*Semnomyia*) is synonymized to *Odontosciara*; *Mapiria* is synonymized to *Zygoneura*. Eleven species of different genera are placed in synonymies. The genus *Aniarella* is revalidated. Generic status is given to *Apelnoacreagris*, *Diorichophthalma*, *Dolichosciara*, and *Leptosciarella*, formerly considered subgenera. New combinations are proposed for 91 species. The examination of the type series of most Neotropical species allowed the designation of the lectotypes of 35 species. Corrections are made on the use of the name *Odontosciara*.

KEYWORDS. DIPTERA; SCIARIDAE; CATALOGUE; NEOTROPICAL.

INTRODUCTION

The members of the family Sciaridae are considerably constant in relation to a series of morphological features if compared, for example, to many other families of Bibionomorpha. There are near 1000 described valid species in the world, and about 100 generic and subgeneric names available. However, there is no subfamilial and tribal arrangement in use for the family in the recent literature. This classification is not proposed herein, since it should be preferably justified on a phylogenetic analysis of the family, and it is left to be proposed elsewhere.

The larvae of most species of the family feed on fungus growing on decaying plants. However, there are various known cases of larvae attacking living plant tissues. I have identified adult species of *Bradysia* which larvae were feeding on soy beans and *Eucalyptus*, as well as species of *Eurobradysia* attacking plantations of roses and of *Solanum quitoensis*.

The fact that there are some groups of Bibionomorpha described from the Late Triassic/Early Jurassic (KOVALEV, 1986) suggests that various subgroups of this taxon already existed before the break-up of the Pangaea in the Late Triassic. Although no direct evidence has been demonstrated from fossils, the worldwide distribution of most genera may be an indication that these genera already existed at that time.

The systematics of the Sciaridae in the Neotropical Region has much to be done. Collections of Neotropical material of the family now available show some hundreds of new species to be described, including a number of genera not yet recorded to the region. Data from literature on the distribution of species must be carefully considered, since many identifications have been based only on coloration.

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The type repository of the species in this Catalogue is added whenever known.
The abbreviations of institutions are as follows:

BIUH	- <i>Botanisches Institut der Universität Helsinki</i> , Helsinki;
BMNH	- British Museum (Natural History), London;
BPBMH	- Bernice P. Bishop Museum, Honolulu;
BZM	- <i>Berliner Zoologisches Museum</i> , Berlin;
CUC	- Cornell University Collection, Cornell;
IPE	- <i>Institut für Pflanzenschutzforschung</i> , Eberswalde;
IZV	- <i>Institut Zoologii</i> , Warsaw;
MIZLP	- <i>Museu e Instituto de Zoología da Universidad de La Plata</i> , La Plata;
MNHN	- <i>Muséum National d'Histoire Naturelle</i> , Paris;
MZUSP	- <i>Museu de Zoologia da Universidade de São Paulo</i> , São Paulo;
NMF	- <i>Natur-Museum und Forschungs - Institut Seckenberg</i> , Frankfurt;
NMW	- <i>Naturhistorisches Museum</i> , Vienna;
SMNS	- <i>Staatliches Museum für Naturkunde</i> , Stuttgart-Ludwigsburg;
SMTD	- <i>Staatliches Museum für Tierkunde</i> , Dresden;
USNM	- United States National Museum, Washington, D.C.;
ZIUH	- <i>Zoologisches Institut der Universität Halle</i> , Halle;
ZIZMH	- <i>Zoologisches Institut und Zoologisches Museum</i> , Hamburg;
ZMAK	- <i>Zoologischen Musem 'Alexander Koenig'</i> , Bonn.

The type series of most of the Neotropical species have been examined, what was fundamental to make a large number of generic placement of species. This work could not be done without the very kind help of the curators of the institutions which borrowed material, to whom I am deeply indebted. Dr. Nelson Papavero prepared a first list of the Neotropical species of Sciaridae and helped with many suggestions and discussions. I also acknowledge the kind help of Dr. Frank Menzel, who read the manuscript, indicating some errors, furnishing additional data, and commenting his paper on the redescription of the holotype of *Sciara nigra* Wiedemann.

Genus *Aniarella* Enderlein, revalidated

- Aniarella** Enderlein, 1911:141; LENGERSDORF, 1942:99 (as a synonym of *Neosciara*). Type species, *pelluscens* Enderlein (orig. des.).
- azteca** (Lane), 1959a:76, figs. 4 (♂ genitalia), 34 (wing) (*Neosciara*). Type locality: Mexico, Distrito Federal, Xochimilco. Holotype ♂, MZUSP, comb.n.
- brevis** (Rübsaamen), 1894:36, pl. 2, fig. 8 (wing), pl. 3, fig. 16 (♂ genitalia) (*Sciara*). Type locality: Colombia, Facatativa. Distr. - Venezuela, Colombia, Ecuador. Lectotype ♂, BZM (nº 8226) (here designated). The type series included six males. One of them, the only one on a slide preparation, was designated the lectotype, comb. n.
- fasciata**; Schiner (non Walker), 1868:13 (♀, Venezuela), **syn.n.**
- nigrina** Rübsaamen, 1894:35, pl. 1, fig. 12 (wing), pl. 3, fig. 2 (♀ terminalia) (*Sciara*). Type locality: Colombia, Cordilleras. Holotype ♀, BZM (nº 11248). RÜBSAAMEN (1894:36) based his original description on a single female. I have received, when examining the type, which is in a slide preparation, another two female specimens in a single pin with a label "Typus" and a note indicating "*S. nigrina*". As they are not referred to in the original description they were not considered as types, **syn.n.**
- obscurans** Enderlein, 1911:161 (*Lycoria*); LENGERSDORF, 1942:99 (as a synonym of *pimpliformis* End.). Type locality: Ecuador, Baños, 1800 m. Holotype ♂, IZV, **syn.n.**
- pimpliformis** Enderlein, 1911:162; STEFFAN, 1976:97 (as *Lycoriella*). Type locality: "Colombia". Holotype ♂, IZV, **syn.n.**
- pelluscens** Enderlein, 1911:141. Type locality: Brazil, Santa Catarina. Holotype ♂, IZV.

Genus *Apelmocreagris* Enderlein, stat.n.

- Apelmocreagris** Enderlein, 1911:146; LENGERSDORF, 1941 (1951):202 (196), footnote n° 1 (as synonym of *Lycoria*); FREY, 1942:29 (as subgenus of *Sciara*). Type species, *Lycoria bibionea* Speiser (orig. des.) = *thoracica* (Macquart).
- blandula** (Lengersdorf), 1944:129, fig. 7 (♂ gonostyle) (*Lycoria*). Type locality: Mexico, Finca Vergel. Holotype ♂, IPALE, comb.n.
- crinita** (Lengersdorf), 1944:128, fig. 4 (♂ gonostyle) (*Lycoria*). Type locality: Mexico, Finca Vergel. Holotype ♂, IPALE (the holotype of *L. crinita* Ldf. and the holotype of *L. spinimana* Ldf. are mounted together, on the same slide), comb.n.
- leucacroceria** Enderlein, 1911:148. Type locality: Brazil, Santa Catarina. Lectotype ♂, IZV (here designated). The type series is composed of a male and three females.

Genus *Bradysia* Winnertz

- Bradysia** Winnertz, 1867:180; TUOMIKOSKI, 1960:110 (redefinition); LANE, 1959a (key to ssp.). Type species, *angustipennis* Winnertz (ENDERLEIN, 1911:127).
- Neosciara** Pettey, 1918:320. Type species, *Sciara coprophila* Lindner (orig. des.) = *Bradysia amoena* (Winnertz).
- abnormalis** (Lane), 1959a:72, fig. 1 (♂ genitalia) (*Neosciara*). Type locality: Trinidad, Navy Base. Holotype ♂, MZUSP, comb.n.
- acutimedialis** (Lengersdorf), 1941 (1951):203 (197), figs. 6 (wing), 7 (♂ gonostyle) (*Neosciara*). Type localities: Peru, Yanamonte, 2725 m; Aina, 1400 m; and Sivia, 520 m. Syntypes ♂ ♂, ZIMH, lost, comb.n.
- aequalis** (Rübsaamen), 1894:36, pl. 2, fig. 9 (wing), pl. 3, fig. 6 (♀ terminalia) (*Sciara*). Type locality: Colombia, Bogotá. Holotype ♀, BZM, comb.n.
- aequans** (Enderlein), 1911:182 (*Lycoria*). Type locality: Brazil, Santa Catarina. Holotype ♀, IZV, comb.n.
- aitkeni** (Lane), 1959a:74, fig. 3 (♂ genitalia) (*Neosciara*). Type locality: Brazil, Pará, Cachimbo. Holotype ♂, MZUSP, comb.n.
- antica** (Walker), 1856:419 (*Sciara*). Type locality: "Amazon". Holotype ?, BMNH (the abdomen is missing in the type, but the generic position of the species can be clearly verified by the comb of setae on the apex of tibia I), comb.n.
- arcuans** (Enderlein), 1911:179 (*Lycoria*). Type locality: Brazil, Santa Catarina. Holotype ♂, IZV, comb.n.
- boliviensis** (Lengersdorf), 1930b:58 (*Neosciara*, as *brunnipes* var.). Type locality: Bolivia, Buena Vista. Holotype ♀, SMNS, stat.n., comb.n.
- bororoi** (Lane), 1959a:76, figs. 5 (♂ genitalia), 35 (wing) (*Neosciara*). Type locality: Brazil, São Paulo, Campos do Jordão. Distr. - Brazil (Mato Grosso, São Paulo). Holotype ♂, MZUSP, comb.n.
- chilensis** (Rübsaamen), 1894:23 (nom. nov. for *pallipes* Blanchard) (*Sciara*). Type locality: Chile, Chiloé and San Carlos. Lectotype ♀, MNHN, comb.n.
- pallipes** (Blanchard), 1852:348 (preocc. Fabricius, 1794) (*Sciara*). Type localities: Chile, Chiloé and San Carlos. Lectotype ♀, MNHN (n° 1271) (here designated). The type series in the MNHN included seven specimens, four of which are females and two are males. A female with the original label was designated the lectotype. The female paralectotypes n° 1 and n° 2 are considered conspecific with the lectotype. Paralectotypes n° 3 to n° 5 (two males and a female) belong to *Bradysia*, but are not conspecific with the lectotype, and n° 6 is a Chironomidae.
- columbia** (Pettey), 1918:342, figs. 63a (♂ gonostyle), 63b (detail of ♂ gonocoxite), 66 (wing) (*Neosciara*). Type locality: Colombia, La Sierra. Holotype ♂, CUC (n° 238), comb.n.
- dureti** (Lane), 1959a:80, figs. 8 (♂ genitalia), 37 (wing) (*Neosciara*). Type locality: Argentina, Misiones, Oberá. Distr. - Brazil (São Paulo), Argentina (Misiones). Holotype ♂, MZUSP, comb.n.
- elegans** Morgante, 1969:572, fig. 2 (wing), 4 (♂ genitalia), 8 (♂ ejaculatory valve apodeme), 9 (♀ genital

- fork). Type locality: Brazil, São Paulo, Mongaguá (Vila Atlântica). Holotype ♂, MZUSP.
- evanescens** (Enderlein), 1911:171 (*Lycoria*). Type locality: Brazil, Santa Catarina. Holotype ♂, IZV, comb.n.
- fluminensis** (Lane), 1959a:81, figs. 9 (♂ genitalia), 38 (wing) (*Neosciara*). Type locality: Brazil, Rio de Janeiro, Angra dos Reis (Japuíba). Distr. - Brazil (Rio de Janeiro, São Paulo). Holotype ♂, MZUSP, comb.n.
- forattinii** (Lane), 1959a:82, fig. 10 (♂ genitalia) (*Neosciara*). Type locality: Brazil, Mato Grosso, Bataguá (Amaurilândia). Holotype ♂, MZUSP, comb.n.
- fuliginosa** (Blanchard), 1852:348 (*Sciara*). Type locality: Chile, Coquimbo. Lectotype ♀, MNHN (n° 1269) (here designated). The type series in the MNHN included seven specimens. Four of these were conspecific females, one of which designated the lectotype, the others paralectotypes n° 1 to n° 3. Paralectotype n° 4 is a nonconspecific female *Bradysia*, n° 5 is a Sciophilinae, and 6 is a Psychodidae, comb.n.
- fulvescens** (Enderlein), 1911: 175 (*Lycoria*). Type locality: Brazil, Santa Catarina. Holotype ♀, IZV. The original description refers to "2 ♂" in the material analyzed. This is certainly a print error, since in the beginning of the description there is a reference to "♀" and both types are females, comb.n.
- fumigans** (Enderlein), 1911:168 (*Lycoria*). Type locality: Brazil, Santa Catarina. Lectotype ♂, IZV (here designated). The type series includes one male and one female, comb.n.
- fusca** Freeman, 1953:36, figs. 3c (♂ genitalia), 3d (wing). Type locality: Juan Fernandez Is., Masafuera (Inocentes Bajos). Holotype ♂, BMNH (not, as published, in the University of Chile).
- fuscescens** (Enderlein), 1911:181 (*Lycoria*). Type locality: "Costa Rica". Holotype ♀, IZV, comb.n.
- guayanensis** (Enderlein), 1911:166 (*Lycoria*). Type locality: Guyana, Demerara. Lectotype ♀, IZV (here designated). Two females constituted the type series, comb.n.
- helveolus** (Rübsaamen), 1894:27, pl. 2, fig. 1 (head), pl. 2, fig. 11 (wing), pl. 3, fig. 7 (♀ terminalia) (*Odontonyx*). Type locality: "Puerto Rico". Holotype ♀, BZM (n° 2205), comb.n.
- hyalescens** (Enderlein), 1911:172 (*Lycoria*). Type locality: "Costa Rica". Holotype ♂, IZV, comb.n.
- hygida** Sauaia & Alves, 1968:85, figs. 1-13. Type locality: Brazil, São Paulo, Ribeirão Preto (Fazenda Monte Alegre). Holotype ♂, MZUSP.
- infuscatipennis** (Blanchard), 1852:348 (*Sciara*). Type locality: Chile, Coquimbo. Lectotype ♀, MNHN (n° 1270) (here designated). The type series is composed of two females, one of which is designated the lectotype, comb.n.
- insolita** (Lengersdorf), 1941 (1951):202(196), figs. 3 (flagellomere), 4 (♂ gonostyle) (*Neosciara*). Type locality: Peru, Aina, 1400 m. Type ♂, ZIZMH, lost, comb.n.
- insularis** (Lane), 1959a:82, figs. 11 (♂ genitalia), 39 (wing) (*Neosciara*). Type locality: Trinidad, Navy base. Holotype ♂, MZUSP, comb.n.
- janduisi** (Lane), 1959a:83, figs. 12 (♂ genitalia), 40 (wing) (*Neosciara*). Type locality: Brazil, São Paulo, Campos do Jordão. Distr. - Brazil (Mato Grosso, São Paulo). Holotype ♂, MZUSP, comb.n.
- kaigangi** (Lane), 1959a:84, figs. 13 (♂ genitalia), 41 (wing) (*Neosciara*). Type locality: Brazil, São Paulo, Campos do Jordão. Holotype ♂, MZUSP, comb.n.
- latimedialis** (Lengersdorf), 1941(1951):204(198), fig. 12 (♂ gonostyle) (*Neosciara*). Type locality: Peru, Yamamonte, 2725 m. Type ♂, ZIZMH, lost, comb.n.
- longinguans** (Enderlein), 1911:177 (*Lycoria*). Type locality: Brazil, Santa Catarina. Holotype ♀, IZV, comb.n.
- mabiusi** (Lane), 1959a:86, fig. 15 (♂ genitalia) (*Neosciara*). Type locality: Brazil, Santa Catarina, Nova Teutônia. Holotype ♂, MZUSP, comb.n.
- matogrossensis** (Lane), 1959a:88, figs. 17 (♂ genitalia), 42 (wing) (*Neosciara*). Type locality: Brazil, Mato Grosso, Bataguá (Quiteriazinha). Holotype ♂, MZUSP, comb.n.
- media** Freeman, 1953:36, figs. 3c (♂ genitalia), 3f (wing). Type locality: Juan Fernandez Is., Masatierra (Alto Francés). Holotype ♂, BMNH (not, as published, in the University of Chile).
- meinacusi** (Lane), 1959a:90, fig. 18 (♂ genitalia) (*Neosciara*). Type locality: Brazil, Mato Grosso, Bataguá (Três Barras River). Distr. - Brazil (Mato Grosso, Goiás, Rio de Janeiro, São Paulo). Holotype ♂, MZUSP, comb.n.
- mexicana** (Lane), 1959a:91, fig. 19 (♂ genitalia) (*Neosciara*). Type locality: Mexico, Distrito Federal, Natividad. Holotype ♂, MZUSP, comb.n.

- minuens** (Enderlein), 1911:173 (*Lycoria*). Type locality: Brazil, Santa Catarina. Lectotype ♂, IZV (here designated). Four males and a female compose the type series, comb.n.
- neotropica** (Lane), 1959a:92, figs. 20 (♂ genitalia) (*Neosciara*). Type locality: Brazil, Pará, Cachimbo. Distr. - Brazil (Pará), Trinidad. Holotype ♂, MZUSP, comb.n.
- nigra** (Blanchard), 1852:349 (*Lestremia*). Type locality: Chile, Carelmapu and Chiloé. Lectotype ♀, MNHN (here designated). Blanchard (1852:349) referred to specimens from more than one locality, but there is a single female in the collection at the MNHN. This is a probably the only remanescence of a larger series and was designated lectotype. There is no locality label, comb.n.
- nigricans** (Enderlein), 1911:168 (*Lycoria*). Type locality: Brazil, Santa Catarina. Holotype ♂, IZV, comb.n.
- nubilans** (Enderlein), 1911:178 (*Lycoria*). Type locality: Brazil, Santa Catarina. Holotype ♀, IZV, comb.n.
- obsoletescens** (Enderlein), 1911:180 (*Lycoria*). Type locality: Brazil, Santa Catarina. Holotype ♀, IZV, comb.n.
- paulistana** (Lane), 1959a:93, fig. 22 (♂ genitalia), 43 (wing) (*Neosciara*). Type locality: Brazil, São Paulo, Embu. Holotype ♂, MZUSP, comb.n.
- pilararia** (Lengersdorf), 1941 (1951):203(197), figs. 8 (♂ gonostyle), 9 (wing) (*Neosciara*). Type locality: Peru, Aina, 1400 m. Type ♂, ZIZMH, lost, comb.n.
- portoricensis** (Lane), 1959a:96, fig. 25 (♂ genitalia) (*Neosciara*). Type locality: Puerto Rico, Campo O'Riley. Holotype ♂, MZUSP, comb.n.
- propinguans** (Enderlein), 1911:175 (*Lycoria*). Type locality: Brazil, Santa Catarina. Holotype ♂, IZV, comb.n.
- quadrisetosa** Bischoff de Alzuet & Najt, 1973:341, figs. 37 (apex of tibia I), 38 (tarsal claw), 39 (max. palpus), 40 (♂ antenna), 41 (head vertex), 42 (wing), 43 (♂ genitalia), 44 (♂ flagellomere 4). Type locality: Argentina, Buenos Aires, La Plata. Holotype ♂, MIZLP (nº 3517).
- rabelloii** (Lane), 1959a:97, figs. 26 (♂ genitalia), 44 (wing) (*Neosciara*). Type locality: Brazil, São Paulo, São Paulo (Jaraguá). Holotype ♂, MZUSP, comb.n.
- regens** (Enderlein), 1911:169 (*Lycoria*). Type locality: Brazil, Santa Catarina. Lectotype ♂, IZV (here designated). Two males compose the types series, comb.n.
- siegeli** (Lane), 1959a:98, fig. 27 (♂ genitalia) (*Neosciara*). Type locality: Brazil, São Paulo, Campos do Jordão. Distr. - Brazil (São Paulo, Santa Catarina). Holotype ♂, MZUSP, comb.n.
- simulans** (Enderlein), 1911:174 (*Lycoria*). Type locality: Brazil, Santa Catarina. Holotype ♂, IZV, comb.n.
- simulatrix** (Lengersdorf), 1940:250 (*Neosciara*). Type localities: Mexico, Chiapas and Vergel. Syntypes ♂ ♀ (?), not located, comb.n.
- spatitergum** (Hardy), 1956:85 (*Sciara (Lycoriella)*). STEFFAN, 1968:515, figs. 1a (wing), 1b (♂ flagellomere 4), 1c (max. palpus), 1d (apex of tibia I), 1e (♂ genitalia), 1f (♀ tergum IX) 1g (vaginal furca), 2 (wing) (generic reassessment). Type locality: Hawaiian Is. Distr. - Hawaii, Panama (Canal Zone). Brazil (São Paulo). Holotype ♂, BPBMH.
- surinamensis** (Lengersdorf), 1931:254, fig. 3 (♂ gonostyle) (*Sciara (Neosciara)*). Type locality: Surinam, Paramaribo. Syntypes ♂ ♀, ZIUH, comb.n.
- tenebricosa** (Lengersdorf), 1941(1951):203(198), figs. 10 (wing), 11 (♂ gonostyle) (*Neosciara*). Type locality: Peru, Aina, 1400 m. Type ♂, ZIZMH, lost, comb.n.
- trinidadensis** (Lane), 1959a:100, fig. 30 (♂ genitalia) (*Neosciara*). Type locality: Trinidad, Navy Base. Holotype ♂, MZUSP, comb.n.
- trisetosa** Bischoff de Alzuet & Najt, 1973:337, figs. 30 (max. palpus), 31 (tarsal claw), 32 (wing), 33 (♀ cercus), 34 (♂ flagellomere), 35 (apex of tibia I), 36 (♂ genitalia). Type locality: Argentina, Buenos Aires, La Plata. Holotype ♂, MIZLP (nº 3516).
- tristans** (Enderlein), 1911:159 (*Lycoria*). Type locality: Ecuador, Santa Inéz, 1200 m. Holotype ♀ IZV, comb.n.
- tupinamba** (Lane), 1959a:101, fig. 31 (♂ genitalia) (*Neosciara*). Type locality: Brazil, São Paulo, Campos do Jordão. Holotype ♂, MZUSP, comb.n.
- venezuelensis** (Lane), 1959a:102, fig. 32 (♂ genitalia) (*Neosciara*). Type locality: Venezuela, Caracas (El Vale). Holotype ♂, MZUSP, comb.n.
- ventricosa** (Lengersdorf), 1941 (1951):202(197), fig. 5 (♂ gonostyle) (*Neosciara*). Type locality: Peru, Yamamonte, 2725 m. Type ♂, ZIZMH, lost, comb.n.

vergens (Enderlein), 1911:177 (*Lycoria*). Type locality: Brazil, Santa Catarina. Holotype ♀, IZV, comb.n.
willinki (Lane), 1959a:103, figs. 33 (♂ genitalia), 45 (wing) (*Neosciara*). Type locality: Argentina, Santa Cruz, Lago Argentino. Holotype ♂, MZUSP, comb.n.

Genus *Chaetosciara* Frey

Neosciara subgen. *Chaetosciara* Frey, 1942:33; FREY, 1948:79 (as a subgenus of *Bradysia*); TUOMIKOSKI, 1960:41 (as a genus). Type species, *Sciara fenestrata*, Lengersdorf nec Zett.
brasiliiana (Lane), 1959a:77, figs. 6 (♂ genitalia), 36 (wing) (*Neosciara*). Type locality: Brazil, São Paulo, Campos do Jordão. Holotype ♂, MZUSP, comb.n.
marauasi (Lane), 1959a:87, fig. 16 (♂ genitalia) (*Neosciara*). Type locality: Brazil, São Paulo, Campos do Jordão. Distr. - Brazil (Goiás, Rio de Janeiro, São Paulo). Holotype ♂, MZUSP, comb.n.

Genus *Corynoptera* Winnertz

Corynoptera Winnertz, 1867:77; STEFFAN, 1966:48 (redef.). Type species, *perpusilla* Winnertz (ENDERLEIN, 1911:127).
elegans Bischoff de Alzuet & Najt, 1973:33, figs. 15 (max. palpus), 16 (tarsal claw), 17 (wing), 18 (apex of tibia I), 19 (♂ flagellomere 4), 20 (♂ genitalia), 21 (♀ flagellomere 4), 22 (♀ cercus). Type locality: Argentina, Buenos Aires, La Plata. Holotype ♂, MIZLP (nº 3514).

Genus *Ctenosciara* Tuomikoski

Ctenosciara Tuomikoski, 1960:110. Type species, *Sciara hyalipennis* Meigen (orig. des.).
destita (Lengersdorf), 1944:125, fig. 1 (♂ gonostyle) (*Lycoria*). Type locality: Mexico, San Jacinto. Lectotype ♂, IPALE (here designated). The type series is composed of two males mounted on the same slide. The male on the right side was designated lectotype, indicated by an arrow glued at the inferior side of the slide. I could not find the females referred to in the original description, comb.n.
longisartus Bischoff de Alzuet & Najt, 1973:330, figs. 23 (max. palpus), 24 (tarsal claw), 25 (apex of tibia I), 26 (♂ flagellomere 4), 27 (wing), 28 (♀ cercus), 29 (♂ genitalia). Type locality: Argentina, Buenos Aires, La Plata. Holotype ♂, MIZLP (nº 3515).

Genus *Diorichophthalma* Frey, stat.n.

Lycoriella subgen. *Diorichophthalma* Frey, 1942:37; FREY, 1948 (as a subgenus of *Bradysia*). Type species, *grandifrons* Frey (orig. des.).
grandifrons (Frey), 1942:37 (*Lycoriella*). Type locality: Brazil, Santa Catarina, Nova Teutônia. Holotype ♀, BIUH, comb.n.

Genus *Dolichosciara* Tuomikoski, stat.n.

Phytosciara subgen. *Dolichosciara* Tuomikoski, 1960:107. Type species, *Sciara flavipes* Meigen (orig. des.).
flavescens (Enderlein), 1911:176 (*Lycoria*); LENGERSDORF, 1942:99 (as a synonym of *S. flavipes* M.). Type locality: Brazil, Santa Catarina. Holotype ♀, IZV, comb.n.

Genus *Epidapus* Haliday

Epidapus Haliday, In: Walker, 1851:7; TUOMIKOSKI, 1960:96 (redefinition). Type species, *Chionea venatica* Haliday (sub. mon., Walker, 1856:56).
brevisartus Bischoff de Alzuet & Najt, 1973:330, figs. 1 (♀ specimen), 2 (head), 3 (max. palpus), 4 (♀

flagellomere 4), 5 (apex of tibia I), 6 (♀ cercus). Type locality: Argentina, Buenos Aires, La Plata. Holotype ♀, MIZLP (n° 3512).

operosus Bischoff de Alzuet & Najt, 1973:332, figs. 7 (♀ max. palpus), 8 (apex of tibia I), 9 (♀ cercus). Type locality: Argentina, Buenos Aires, La Plata. Holotype ♀, MIZLP (n° 3513).

Genus **Eugnoriste** Coquillett

Eugnoriste Coquillett, 1896:321. Type species, *occidentalis* Coquillett (mon.)

brevirostris Coquillett, 1904b: 169; LENGERSDORF, 1940:250. Type locality: U.S.A., Colorado. Distr. - U.S.A. (Colorado, Arizona, Kansas), Mexico. Type ♀, USNM (n° 7944).

pernitens Edwards, 1941:313. Type locality: Brazil, Mato Grosso, Salobra. Holotype ♀, BMNH.

Genus **Euricrium** Enderlein

Euricrium Enderlein, 1911:142. Type species, *ruebsaameni* Enderlein (orig. des.).

antennarium Lengersdorf, 1926:165. Type locality: Brazil, Paraná, Curitiba. Type ♀, not located.

borgmeieri Lengersdorf, 1926:164. Type locality: Brazil, Rio de Janeiro, Petrópolis. Syntypes ♂♀, not located.

fulgescens (Enderlein), 1911:170. Type locality: Brazil, Santa Catarina. Holotype ♂, IZV. comb.n.

myrmecophilum Lengersdorf, 1925:92. Type locality: Brazil, Rio Negro. Syntypes ♂♀, not located.

ruebsaameni Enderlein, 1911:142, fig. 10 (wing). type locality: Brazil, Santa Catarina. Holotype ♀, IZV.

Genus **Eurobradysia** Lengersdorf

Eurobradysia Lengersdorf, 1930a: 124. Type species, *acicularis* Lengersdorf (mon.)

Neosciara, subgen. **Dendrosciara** Frey, 1942:33; FREY, 1948:55 (as a subgenus of *Bradysia*). Type species, *Sciara corticalis* Lengersdorf (orig. des.), **syn.n.**

acicularis Lengersdorf, 1930a:125. Type locality: Costa Rica, San José. Type ♂, ZIZMH, lost.

argenteomaculata (Frey), 1942:33 (*Neosciara (Dendrosciara)*). Type locality: Brazil, Santa Catarina, Nova Teutônia. Holotype ♀, BIUH, comb.n.

longicollis Edwards, 1934:371, fig. 5 (♂ genitalia). Type locality: Bolivia, Yungas de Coroico, 1800 m. Distr. - Peru, Bolivia. Holotype ♂, SMTD.

Genus **Gephyromma** Enderlein

Gephyromma Enderlein, 1911:189. Type species, *fulgidium* Enderlein (orig. des.).

fulgidium Enderlein, 1911:189. Type locality: Brazil, Santa Catarina. Holotype ♂, IZV.

Genus **Hybosciara** Rübsaamen

Hybosciara Rübsaamen, 1894:28. Type species, *gigantea* Rübsaamen (mon.) (= *Sciara gigantea* Macquart).

fragilis Morgante, 1969:574, figs. (wing), 10 (♂ genitalia), 11 (ejaculatory valve apodeme), 12 (vaginal furca). Type locality: Brazil, Minas Gerais, Camanducaia (Monte Verde). Holotype ♂, MZUSP.

gigantea (Macquart), 1844:147 (1846:19) (*Sciara*); ENDERLEIN, 1911:146 (as synonym of *H. gigantea* Rübs.). Type locality: "Nouvelle-Grenade". Syntypes ♀♀, not located ("De la collection de M. Bigot e de la mienne").

gigantea Rübsaamen, 1894:28, pl. 1, fig. 1 (wing), pl. 2, fig. 6 (head), pl. 3, fig. 3 (♀ terminalia). Type locality: "Colombia". Lectotype ♀, BZM (n° 6186) (here designated). RÜBSAAMEN (1894:29) referred to three females in the type series. I have seen one pinned complete specimen, one specimen entirely on a slide-mounting, and a pair of additional slide preparations, one of which with a wing, the other one with the head and the terminalia, supposedly belonging to the same specimen. The pinned specimen has been designated lectotype, the other two specimens as paralectotypes n° 1 and n° 2, respectively.

Genus *Leptosciarella* Tuomikoski, stat.n.

Trichosia subgen. **Leptosciarella** Tuomikoski, 1960:20. Type species, *Sciara elegans* Winnertz (orig. des.).
elongatula (Lengersdorf), 1944:128, fig. 5 (♂ gonostyle) (*Lycoria*). Type locality: Mexico, Chiapas, Finca Prusia. Holotype ♂, IPALE, comb.n.

Genus *Merianina* Frey

Merianina Frey, 1943:29. Type species, *americana* Frey (orig. des.).
americana Frey, 1942:29. Type locality: Brazil, Santa Catarina, Nova Teutônia. Holotype ♀, BIUH.
kuscheli Freeman, 1953:33. Type locality: Juan Fernandez Is., Masatierra, Salsipuedes. Holotype ♀, BMNH (not, as published, in the University of Chile).
leptogaster (Schiner), 1868:13 (*Sciara*). Type locality: "Colombia". Lectotype ♀, NMW (here designated). Two females compose the type series, one of them not in good conditions. The better preserved specimen was chosen the lectotype, comb.n.
longipilis (Lengersdorf), 1930a:127, fig. 3 (♂ gonostyle) (*Lycoria*). Type locality: Costa Rica, San José. Type ♂, ZIZMH, lost, comb.n.
prosthoxantha (Enderlein), 1911:167 (*Lycoria*). Type locality: Colombia, Rio Magdalena. Holotype ♀, IZV, comb.n.
puberula (Lengersdorf), 1944:129, fig. 6 (♂ gonostyle) (*Lycoria*). Type locality: Mexico, Vera Cruz, Cuichapa. Lectotype ♂, IPALE (here designated). Two males on the same slide compose the type series. The male at the right side of the slide was designated the lectotype, indicated by an arrow glued to the bottom of the slide, comb.n.

Genus *Metangela* Rübsaamen

Metangela Rübsaamen, 1894:24. Type species, *calliptera* Rübsaamen (ENDERLEIN, 1911:126).
calliptera Rübsaamen, 1894:24, fig. 2 (wing), pl. 2, fig. 3 (head), pl. 3, fig. 17 (♀ terminalia); LANE, 1947:351; 1955:260. Type locality: "Brazil" (from Sello's collection, possibly between Rio de Janeiro and Bahia). Distr. - Brazil (Rio de Janeiro, São Paulo, Paraná, Santa Catarina). Lectotype ♀, BZM (nº 6206) (here designated). A female on a pin and another on a slide composed the type series. The female on the slide was designated lectotype.
spinata Lane, 1955:259, fig. 3 (♂ genitalia). Type locality: Brazil, São Paulo, Salesópolis (Estação Biológica de Boracéia). Holotype ♂, MZUSP, **syn.n.**
fasciata Lengersdorf, 1926:166. Type locality: Brazil, Rio de Janeiro, Petrópolis. Type ♀, not located.
ruebsaameni Lane, 1947:352, fig. 7 (♂ genitalia). Type locality: Brazil, São Paulo, Batea. Holotype ♂, MZUSP.

Genus *Odontosciara* Rübsaamen¹

Odontonyx Rübsaamen, 1894:25 (preocc. Stephans, 1828). Type species, see footnote p. 63.
Odontosciara Rübsaamen, 1908:450 (*nom. nov.* for *Odontonyx* Rübsaamen). Type species, see footnote p. 63.
Phorodonota Coquillett, 1910:589 (unnecessary *nom. nov.* for *Odontonyx* Rübsaamen). Type species, see footnote p. 63.
Neosciara, subgen. *Sennomyia* Frey, 1942:32. Type species, *Lycoria psychina* Enderlein (orig. des.), **syn.n.**
beebei (Shaw & Shaw), 1950:14, figs. 1 (wing), 2 (♂ genitalia) (*Sciara (Neosciara)*). Type locality: Venezuela, Riacho Grande. Holotype ♂, Shaw collection, comb.n.
fulviventris (Wiedemann), 1821:44 (*Sciara*). Type locality: "America" (lectotype locality: "Amazon basin"). Lectotype ♂, NWM (here designated). The type series present in the NWM included three females. One of them had the label "Amaz. bas.", a second "Süd Carolina", and a third "Savannah". The first one was designated the lectotype. I was not sure of the conspecificity of all three specimens, comb.n.

1. See footnote p. 63.

nigra Rübsaamen (*non* Wiedemann), 1894:26, pl. 1, fig. 7 (wing), pl. 3, fig. 12 (♀ terminalia), pl. 3, fig. 19 (♂ genitalia), pl. 3, fig. 22 (tarsal claw) (*Sciara*). Type locality: Mexico (Oaxaca). Syntypes ♂ ♀, BZM.

psychina (Enderlein), 1911:160 (*Lycoria*). Type locality: Mexico, Chiapas. Holotype ♀, IZV, comb. n.

Genus *Plastosciara* Enderlein

Pseudosciara Kieffer, 1898:194 (preocc. Schiner, 1868). Type species, *pictiventris* Kieffer (orig. des.).
Plastosciara Berg, 1899:78 (*nom. nov.* for *Pseudosciara* Kieffer); LANE, 1960 (key to spp.). Type species, *Pseudosciara pictiventris* Kieffer (aut.).
aimoresi Lane, 1960:120, fig. 1 (♂ genitalia). Type locality: Trinidad, Navy Base. Holotype ♂, MZUSP.
barretoi Lane, 1960:122, fig. 2 (♂ genitalia). Type locality: Brazil, Rio de Janeiro, Itatiaia. Distr. - Brazil (Rio de Janeiro, São Paulo). Holotype ♂, MZUSP.
boracensis Lane, 1960:122, fig. 3 (♂ genitalia). Type locality: Brazil, São Paulo, Salesópolis (Estação Biológica de Boracéia). Holotype ♂, MZUSP.
caraosi Lane, 1960:124, fig. 4 (♂ genitalia). Type locality: Brazil, São Paulo, São Paulo (Parque da Água Funda). Holotype ♂, MZUSP.
cucarisi Lane, 1960:124, fig. 5 (♂ genitalia). Type locality: Brazil, Goiás, Corumbá. Holotype ♂, MZUSP.
downsi Lane, 1960:125, fig. 6 (♂ genitalia). Type locality: Trinidad, Navy Base. Holotype ♂, MZUSP.

Genus *Pnyxia* Johannsen

Pnyxia Johannsen, 1912:114. Type species, *Epidapus scabiei* Hopkins (orig. des.)
scabiei (Hopkins), 1895:152 (*Epidapus*). Type locality: Europe. Distr. - Europe, North America, Argentina; BISCHOF A. & NAFT, 1973:332, figs. 10-14 (♀). Type ?
dispar Schmitz, 1927:27, figs. 1 (♂ genitalia), 2 (wing), 3 (♀ specimen); TUOMIKOSKI, 1960:102 (as a doubtful synonym of *P. scabiei* (Hopk.)). Type locality: Argentina, Buenos Aires, La Plata. Syntypes ♂ ♀, ZMAK.

Genus *Pseudosciara* Schiner

Pseudosciara Schiner, 1868:13; LANE, 1959b (key to spp.). Type species, *hirtella* Schiner (mon.).
Megalosphys Enderlein, 1911:129; EDWARDS, 1934:367 (as synonym of *Pseudosciara*). Type species, *luteicoxa* Enderlein (orig. des.).

1. The taxonomic history of this genus has involved large misunderstandings. It started with the original name, preoccupied, with Coquillett overlooking RÜBSAAMEN's 1908 substitution for it. The name *Phorodonta* Coq. has been rather widely used to refer to this taxon until recently. A second point is that *Sciara nigra* Wiedemann was misidentified by RÜBSAAMEN (1894). This species was chosen by COQUILLETT (1910) to be the type of the genus. MOHRIG & MENZEL (in press) examined WIEDMANN's type of *Sciara nigra* and their redescription make it clear that it is not conspecific with RÜBSAAMEN's material. I am preparing an application to the International Commission on Zoological Nomenclature, according to Art. 70a of the I.C.Z.N., proposing that the species examined by RÜBSAAMEN should be considered the type of the genus. An additional point is that EDWARDS' (1924:569) has used the name *Phorodonta* to an Oriental species described by him, *Phorodonta pacifica* Edw., from Fiji. EDWARDS (*op. cit.*) affirmed that he had not examined Wiedemann's types, but used the presence of toothed tarsal claws to place that species in the genus. This character appeared in the evolution of the Sciaridae at least three times: in the group *Phytosciara* + *Dolichosciara* + *Merianina* (to which group EDWARDS' species most certainly belongs), in *Odontosciara* (which includes *Sciara nigra* Wied. of RÜBSAAMEN), and a group of species inside *Bradyzia*, to which *Odontonyx helveolus* Rübsaamen belongs. FREY (1942; 1948), TUOMIKOSKI (1960:107), and STEFFAN (1966:32, footnote n° 1; 1969) have also used the name *Phorodonta* in EDWARDS' sense, including in the genus species with macrotrichia on the posterior wing veins. STEFFAN (1980:252, in a key) correctly reintroduced the name *Odontosciara*, but still in EDWARDS' sense, now to be avoided. The species placed in *Odontosciara* by STEFFAN (1989) actually belong to *Dolichosciara*.

- Chaetomegalosphys* Lengersdorf, 1930:123; LENGERSDORF, 1931:253 (as a subgenus of *Megalosphys*); EDWARDS, 1934:367 (as synonym of *Pseudosciara*). Type species, *thoracica* Lengersdorf (mon.).
- aitkeni** Lane, 1959b:290, figs. 1 (wing), 4 (σ genitalia). Type locality: Trinidad, Navy Base. Holotype σ , MZUSP.
- bifasciata** Edwards, 1934:367. Type locality: Peru, Mamara. Holotype σ , SMTD.
- boracensis** Lane, 1959b:290, fig. 3 (wing), 4 (σ genitalia). Type locality: Brazil, São Paulo, Salesópolis (Estação Biológica de Boracéia). Holotype σ , MZUSP.
- cariba** Lane, 1959b:291, figs. 5 (wing), 6 (σ genitalia). Type locality: Trinidad, Arena Forest. Holotype σ , MZUSP.
- coroicoensis** Edwards, 1934:368. Type locality: Bolivia, Yungas de Coroico. 1800 m. Holotype ♀, SMTD.
- debilis** (Williston), 1896:266, pl. 8, fig. 22 (wing) (*Sciara*); ENDERLEIN, 1911:135 (as *Megalosphys*); LENGERSDORF, 1940:248 (as *Pseudosciara*). Type locality: St. Vincent, W.I. Lectotype σ , BMNH (here designated). WILLISTON (1896) referred to the type series as including eight specimens, three of which I could find in the BMNH. I have designated one of the males in the BMNH as the lectotype. One of the male paralectotypes in the BMNH is not conspecific with the lectotype. The remaining specimens of the type series were not located.
- delectata** (Williston), 1896:267 (*Sciara*); LANE, 1959b:289 (as a *Pseudosciara*). Type locality: St. Vincent, W.I. Dist. - St. Vincent, Trinidad. Lectotype σ , BMNH (here designated). Six specimens were referred to by WILLISTON (1896) in the description. Four of them - three males and one female - are in the BMNH. One of the males in the BMNH was designated the lectotype. The female in the BMNH is not conspecific with the lectotype. The remaining specimens of the type series were not found.
- domestica** (Philippi), 1865:267 (*Sciara*); LANE, 1959b:289 (as a *Pseudosciara*). Type locality: Unknown (Chile ?). Type lost. Unrecognizable.
- golbachii** Lane, 1959b:292, fig. 7 (wing). Type locality: Argentina, Salta, Urundel. Holotype σ , MZUSP.
- grisapex** Edwards, 1934:312; LANE, 1959b:294. Type locality: Brazil, Mato Grosso, Salobra. Holotype σ , BMNH.
- coxalba** Edwards, 1934:312. Type locality: Brazil, Mato Grosso, Salobra. Lectotype ♀, BMNH (here designated). The original description included in the type series "2 ♀, n° 1199 and 214 (sic; actually 1214)", without designating the type. The first specimen is in the BMNH, the second in the MZUSP. I am designating the specimen in the BMNH as lectotype, since EDWARDS stated that the types would be deposited in that Museum, *syn.n.*
- hirtella** Schiner, 1868:14. Type locality: "Colombia". Type σ , lost (?; not in the NMW, as other Schiner's types of the "Novara Reise" species).
- hirtipes** (Enderlein), 1911:132 (*Megalosphys*). Type locality: Colombia, Hacienda Pehlke (Dept. de Caldas). Distr. - Colombia, Panama. Lectotype ♀, IZV (here designated). The original type series included a male and a female ("in copula"). The male genitalia had both gonostyles missing and I designated the female as lectotype.
- humeropecta** (Lengersdorf), 1931:253, fig. 2 (wing) (*Megalosphys* (*Chaetomegalosphys*))). Type locality: Brazil, Rio de Janeiro. Type ♀, ZIUH.
- lindneri** (Lengersdorf), 1930b:55 (*Megalosphys*). Type locality: Bolivia, Camatindi. Holotype ♀, SMNS.
- luteicoxa** (Enderlein), 1911:130, figs. 4 (wing), 5 (max. palpus) (*Megalosphys*). Type locality: Brazil, Santa Catarina. Lectotype σ , IZV (here designated). The type series is composed of three males and five females.
- muricata** (Lengersdorf), 1926:167 (*Megalosphys*). Type locality: "Brazil" (?). Syntypes σ ♀, not located.
- neotropica** Lane, 1959b:295, figs. 8 (wing), 9 (σ genitalia). Type locality: Brazil, São Paulo, Campos do Jordão. Distr. - Brazil (Rio de Janeiro, São Paulo). Holotype σ , MZUSP.
- nigricolor** (Enderlein), 1911:133 (*Megalosphys*). Type locality: "Colombia". Lectotype ♀, IZV (here designated). The type series includes two females from Colombia and an additional female from Costa Rica. One of the females from Colombia was designated lectotype.
- paradoxa** (Pettey), 1918:341, figs. 64 (wing), 65 (σ gonostyle) (*Sciara*); LENGERSDORF, 1940:247 (as a

- Pseudosciara*). Type locality: Colombia, Caquetá, Valle de Papas. Holotype ♂, CUC.
pedunculata (Enderlein), 1911:131 (*Megalosphys*). Type locality: Brazil, Santa Catarina. Holotype ♀, IZV.
pubianalis Lengersdorf, 1940:249. Type locality: Mexico, Maltrata/Alta Vista and Chiapas, San Cristobal de las Casas. Syntypes, not located.
pygmaea (Enderlein), 1911:134 (*Megalosphys*). Type locality: Brazil, Santa Catarina. Lectotype ♂, IZV (here designated). The original type series includes 22 ♂♂ and 1 ♀.
striata (Rübsaamen), 1894:37, pl. 2, fig. 12 (wing), pl. 3, fig. 4 (♀ genitalia) (*Sciara*); ENDERLEIN, 1911:135 (as a *Megalosphys*). Type locality: Mexico, Oaxaca. Holotype ♀, BZM (nº 6201).
superba Edwards, 1934:366. Type locality: Bolivia, Mapiri, San Carlos, 800 m. Holotype ♀, SMTD.
thoracica (Lengersdorf), 1930a:123 (*Chaetomegalosphys*). Type locality: Costa Rica, Farma La Caja (W. San José). Type ♀, ZIZMH, lost.
trifasciata (Coquillett), 1904a:90 (*Sciara*). Type locality: Nicaragua, San Marcos. Ref. - LANE, 1959b:289 (as a *Pseudosciara*). Holotype ♂, USNM (nº 7792).

Genus *Psilosciara* Kieffer

- Psilosciara* Kieffer, 1909:246. Type species, *Sciara membranigera* Kieffer (orig. des.).
nitens Freeman, 1953:34, figs. 3a (♀ genitalia), 3b (wing). Type locality: Juan Fernandez Is., Masatierra, Bahia Cumberland. Holotype ♂, BMNH (not, as published, in the University of Chile).

Genus *Rhynchosciara* Rübsaamen

- Rhynchosciara* Rübsaamen, 1894:29; BREUER, 1969 (rev.). Typespecies, *villosa* Rübsaamen (Coquillett, 1910:601) = *cognata* Walker.
americana (Wiedemann), 1821:33 (*Sciara*); BREUER, 1969 (redescr.). Type locality: "Brasilien". Distr. - Brazil (Rio de Janeiro, São Paulo). Neotype ♀, Brazil, São Paulo, Praia Grande, Vila Atlântica, MZUSP.
atra (Macquart), 1838:78 (*Sciara*). Type locality: Brazil, Rio de Janeiro, Serra da Estrela. Type ♀, MNHN.
praecipua (Walker), 1848:103. Type locality: "Brazil". Holotype ♀, BMNH. *syn.n.*
brevicornis Rübsaamen, 1894:30 (part.).
angelae Nonato & Pavan, 1951:435. Type locality: Brazil, São Paulo, Praia Grande (Vila Atlântica). Holotype ♀, MZUSP.
argentinensis Lengersdorf, 1930:37 (as *villosa* var.); BREUER, 1969 (redescr.; as a species). Type locality: Argentina, Buenos Aires. Distr. - Brazil (Santa Catarina, Rio Grande do Sul), Paraguay, Uruguay, Argentina. Holotype ♂, SMNS.
baschanti Breuer, 1967:259, figs. 1-10. Type locality: Brazil, São Paulo, Praia Grande (Mongaguá, Cidade da Criança). Distr. - Brazil (Minas Gerais, São Paulo). Holotype ♂, MZUSP.
brevicornis Rübsaamen, 1894:30, pl. 2, fig. 4 (head); BREUER, 1969 (redescr.). Type locality: Venezuela, La Guayra. Lectotype ♀, ZMB.
busaccai Breuer, 1969:183, figs. 4, 5, 26, 33, 44, 52. Type locality: Costa Rica, Irazú, 6000-7000 ft. Distr. - Mexico, Guatemala, Nicaragua, El Salvador, Costa Rica, Colombia. Holotype ♀, BMNH.
americana; Osten-Sacken (*non* Wiedemann), 1886:1 (part, ♀).
cognata (Walker), 1848:103 (*Sciara*). Type locality: Colombia, Bogotá. Distr. - Colombia, Ecuador. Holotype ♀, BMNH.
americana; Wulp (*non* Wiedemann), 1891:193 (♀) (misidentification).
villosa Rübsaamen, 1894:29, pl. 1, figs. 3, 5, (wing), pl. 2, fig. 5 (head), pl. 3, fig. 8 (♀ terminalia), 24 (leg); BREUER, 1969 (redescr.). Type locality: Colombia, Bogotá. Lectotype ♀, BZM, *syn.n.*
grelleti Breuer, 1969:181, figs. 8-10, 25, 32, 41, 50. Type locality: Peru, Loreto, Machu-Picchu, 2600-2800 m. Holotype ♀, MZUSP.
guimaraesi Breuer, 1969:179, figs. 16, 19, 59, 67, 73. Type locality: Brazil, Santa Catarina, Corupá. Distr. - Brazil (São Paulo, Santa Catarina). Holotype ♂, BZM.
brevicornis; Enderlein (*non* Rübsaamen), 1911:145 (misidentification).
hollaenderi Toledo F², 1969:290, figs. 1D, 2D, 4A (hemolymph protein pattern of larvae), 4B (*ibidem*,

- pre-pupae and pupae), 4C (*ibidem*, adult). Type locality: not stated (Brazil, São Paulo, Praia Grande, Mongaguá; Toledo, pers. comm.). Iconotype¹. sp. Breuer, 1969:174, figs. 14, 21, 29, 37, 46, 55, 63, 71 (♂♀).
- mathildae** Breuer, 1969:184, figs. 11, 27, 43, 53, 61, 69, 75. Type locality: Mexico, Vera Cruz, Jico. Distr. - Mexico, El Salvador, Costa Rica, Panama. Holotype ♀, BMNH.
- atra*; Bellardi (*non* Macquart), 1850:12 (misidentification).
- americana*; Osten-Sacken (*non* Wiedemann), 1886:1 (part) (misidentification).
- villosa*; Enderlein (*non* Rübsaamen), 1911:116 (misidentification).
- milleri** Pavan & Breuer, 1955:330, figs. 1 (head), 2 (wing), 3 (legs), 4 (genitalia), 5-12 (chromosomes). Type locality: Brazil, São Paulo, Praia Grande (Vila Atlântica). Distr. - Brazil (Goiás, Rio de Janeiro, São Paulo, Paraná). Holotype ♂, MZUSP.
- papaveroi** Breuer, 1971:35, figs. 1-12. Type locality: Brazil, Minas Gerais, Camanducaia (Monte Verde). Holotype ♀, MZUSP.
- pleciodes** (Enderlein), 1911:158 (*Lycoria*). Type locality: Ecuador, Balzapamba, 750 m. Distr. - Colombia, Ecuador. Lectotype ♀, IZV (here designated). A female from Balzapamba and another from Santa Ignez constitute the type series of the species. The former was designated the lectotype. The latter is not conspecific with the lectotype, comb.n.
- primogenita** (Walker), 1856:418 (*Sciara*). Type locality: French Guiana, Cayenne. Holotype ♀, BMNH.
- propingua** (Walker), 1848:104 (*Sciara*). Type locality: "Venezuela". Holotype ♀, BMNH.
- vespertilio** (Schiner), 1868:12. Type locality: "Venezuela". Distr. - Venezuela, Colombia. Lectotype ♂, NMW (here designated). The material from which this species was described included three males and three females. One male had its genitalia dissected and was designated the lectotype. The two male paralectotypes are conspecific with the lectotype, but all three female paralectotypes belong to a undescribed species of *Odontosciara*, comb.n.

Genus *Scatopsciara* Edwards

- Sciara*, subg. **Scatopsciara** Edwards, In: Tonnoir & Edwards, 1927:798. Type species, *Sciara quinquevittata* Macquart (orig. des.).
- Scaptosciara*, error.
- acuta** (Johannsen), 1912:136 (*Sciara*); LENGERSDORF, 1940:250 (as *Neosciara*) (this may be a misidentification and, so, not a Neotropical species. Type locality: U.S.A., Washington, Friday Harbor. Distr. - U.S.A. (Washington, Idaho, Kansas), Mexico. Type ♀, Coquillett's coll.

Genus *Schwenkfeldina* Frey

- Neosciara*, subg. **Schwenkfeldina** Frey, 1942:32; FREY, 1948:51 (as a subgenus of *Bradysia*); TUOMIKOSKI, 1960:29 (as a genus). Type species, *Sciara carbonaria* Meigen (orig. des.).

1. There is some confusion concerning the authorship, the types, and the valid description of this species. BREUER (1969) presented a morphological description of the adults of the species under the name "*Rhynchosciara* sp." As long as I am aware of, the first use of a valid name for the species was made by TOLEDO (1969), who described the hemolymph protein electrophoretic pattern. In his work, TOLEDO (1969:289) referred to the species as if it was being described elsewhere ("Pavan, C. in press"), but this paper never became published. Actually, TOLEDO (1969) was apparently the first to use a name for the species together with a characterization, so he must be considered the author of *R. hollaenderi*. TOLEDO (1969) did not designate a specimen nor an agar gel layer as the holotype, so one of his figures must be considered an iconotype. His paper includes a photograph of the hemolymph protein pattern of larvae (*op. cit.*, Fig. 1D) and diagrammatic illustrations of the patterns of the larvae (Figs. 2D and 4A), pre-pupae and pupae (Fig. 4B), and adult (Fig. 4C). I here designate TOLEDO's (1969) figure 1D as the iconotype of the species. A female specimen (identified as *R. hollaenderi*) in the Sciaridae collection of the MZUSP is improperly labeled "Holotype", probably by Mrs. Breuer. This specimen cannot be considered a legitima type specimen. It is not certain (although very probable) that BREUER's (1969) specimens of *Rhynchosciara* sp. and TOLEDO's (1969) specimens of *R. hollaenderi* came from the same colony, so a study to confirm their conspecificity would certainly be welcome.

- forcipigera** (Enderlein), 1911:164; LENGERSDORF, 1942:99, fig. 1 (σ genitalia) (as *Neosciara*). Type locality: "Costa Rica". Lectotype σ , IZV (here designated). The species was described based upon a male and a female, comb.n.
- trifida** Lengersdorf, 1930a:128, fig. 4 (σ gonostyle) (*Neosciara*). Type locality: Costa Rica, S. José. Type σ , ZIZMH, lost, *syn.n.*
- germania** (Williston), 1896:266, pl. 8, fig. 21 (wing) (*Sciara*). Type locality: ST. Vincent, W.I.. Lectotype σ , BMNH (here designated). WILLISTON's original description referred to "numerous specimens". Two males and three females are in the BMNH. The male lectotype is mounted in pin together with a female paralectotype not conspecific with it, comb.n.
- moebiusi** (Rübsaamen), 1894:33, pl. 1, fig. 9 (wing), pl. 3, fig. 1 (φ genitalia) (*Sciara*). Type locality: "Colombia". Distr. Venezuela, Colombia. Holotype φ , BZM (n^o 6189), comb.n.
- pygophora** (Schiner), 1868:13. Type locality: "Venezuela" (*Sciara*). Lectotype σ , NMW (here designated). The type series included two males, one of which was designated lectotype, comb.n.
- striatipennis** (Schiner), 1868:12. Type locality: "Venezuela". Lectotype φ , NMW (here designated) (*Sciara*). Three females compose the types series of this species, *syn.n.*

Genus *Sciara* Meigen

- Lycoria** Meigen, 1800:17. Type species, *Tipula thomae* Linnaeus (Coquillett, 1910:563). Suppressed by I.C.Z.N. (1963:339).
- Sciara** Meigen, 1803: 263. Type species, *Tipula thomae* Linnaeus (mon.).
- antigua** (Lengersdorf), 1940:251, Figs. 3 (σ gonostyle), 4 (wing) (*Lycoria*). Type locality: Mexico, Oaxaca, Tceotaxco. Lectotype σ , IPALE (here designated). The original description refers to specimens from Mexico "Cordoba (Veracruz) ... (and) Tceotaxco (Oaxaca)". I have received for examination only one male from the latter locality, which was designated the lectotype, comb.n.
- columbiiana** (Enderlein), 1911:173 (*Lycoria*). Type locality: "Colombia". Lectotype σ , IZV (here designated). A male and three females composed the type series. The male (from "Colombia") was designated the lectotype, the females (from "Colombia", Rio Magdalena) as paralectotype, comb.n.
- nigrans** (Enderlein), 1911:163 (*Lycoria*). Type locality: Brazil, Santa Catarina. Holotype φ , IZV, comb.n.
- penicillata** (Lengersdorf), 1944: 126, fig. 2 (σ gonostyle) (*Lycoria*). Type locality: Mexico, Finca Vergel. Lectotype σ , IPALE (here designated). The type series of this species is in a single slide, including four males of a single species and an additional male of *Bradyzia*. The latter specimen was not considered part of the type series. One of the four males specimens of *Sciara* was designated the lectotype, indicated by an arrow glued to the lower face of the slide, comb.n.
- pubescens** (Lengersdorf), 1944:128 (*Lycoria*). Type locality: Mexico, Chiapas, Finca Prussia, 1075 m. Lectotype φ , IPALE (here designated). Two females on a single slide constitute the type series of this species. One of them (at the left lower corner), was designated the lectotype, indicated by an arrow glued to the lower face of the slide, comb.n.
- recta** (Lengersdorf), 1941 (1951):205 (200), figs. 1 (wing), 2 (σ gonostyle) (*Lycoria*). Type locality: Peru, Aina, 1400 m. Type σ , ZIZMH, lost comb.n.
- spinimana** (Lengersdorf), 1944:127, fig. 3 (σ gonostyle) (*Lycoria*). Type locality: Mexico, Finca Vergel. Holotype σ , IPALE (the holotype of this species is on the same slide together with the holotype of *Lycoria crinita* Ldf.), comb.n.

Genus *Trichomegalophys* Enderlein

- Trichomegalophys** Enderlein, 1911:136. Type species, *funesta* Enderlein (orig. des.) = *Sciara laticornis* Walker.
- antunesi** (Lane), 1947:353 (*Trichosia*). Type locality: Brazil, São Paulo, São Paulo (Cantareira). Distr. - Brazil (Rio de Janeiro, São Paulo). Holotype φ , MZUSP, comb.n.
- melanocephala** (Fabricius), 1805:60 (*Sciara*); RÜBSAAMEN, 1894:23, fig.1 (wing), pl.3, fig.21 (σ)

- genitalia) (as *Trichosia*) ENDERLEIN, 1911:135 (as *Megalosphys*); FREY, 1942:26 (as a *Trichomegalosphys*). Type locality: "America merid." (Guyana, between Demerara and Essequibo Rivers). Distr. - Guayna, Surinam, Brazil (Amapá). Syntypes (two specimens), ZMC.
- pubescens** (Morgante), 1969:572, figs. 1 (wing), 5 (σ genitalia), 6 (ejaculatory valve apodeme), 7 (vaginal furca) (*Trichosia*). Type locality: Brazil, São Paulo, Mogi das Cruzes (Taiaçupeba). Holotype σ , MZUSP, comb.n.
- ribeiroi** (Lane), 1953:256, fig. 1 (σ genitalia) (*Trichosia*). Type locality: Brazil, Goiás, Corumbá. Holotype σ , MZUSP, comb.n.

Genus *Trichosia* Winnertz

Trichosia Winnertz, 1867:173. Type species, *splendens* Winnertz (Coquillett, 1910:616).
bicolorata Lengersdorf, 1930a:127, fig. 2 (σ gonostyle). type locality: Costa Rica, Farma La Caja (W. San José). Type σ , ZIZMH, lost.

Genus *Zygoneura* Meigen

- Zygoneura* Meigen, 1830:304. Type species, *sciarina* Meigen (mon.).
Zygomma Enderlein, 1911:143; LENGERSDORF, 1940:246 (as a synonym of *Zygoneura*). Type species, *fasciatellum* Enderlein.
Mapiria Edwards, 1934:368. Type species, *transversalis* Edwards (orig. des.), **syn.n.**
Neozygoneura Lengersdorf, 1942:99 (unnecessary nom. nov. for *Zygomma* Enderlein). Type species, *Zygoneura fasciatella* (End.) (mon.), **syn.n.**
alboantennata Lane, 1946:350, fig. 9 (σ genitalia). Type locality: Brazil, Rio de Janeiro, Itatiaia (Maromba), 1100 m. Holotype σ , MZUSP.
boliviiana Edwards, 1934:369, fig. 3 (σ genitalia). Type locality: Bolivia, Yungas, 2500-4000 m. Holotype σ , SMTD.
fasciatella (Enderlein), 1911:144, fig. 11 (wing). Type locality: Brazil, Santa Catarina. Distr. - Brazil (Rio de Janeiro, São Paulo, Paraná, Santa Catarina). Lectotype σ , IZV (here designated). Three males and three females composed the type series of this species.
maculipennis Lane, 1946:348 (preocc. Skuse, 1891). Type locality: Brazil, São Paulo, São Paulo (Jaraguá). Holotype, MZUSP, **syn.n.**
stonei Lane, 1947:214 (nom. nov. for *maculipennis* Lane). Type locality: Brazil, São Paulo, São Paulo (Jaraguá). Holotype σ , MZUSP, **syn.n.**
flavicoxa Johannsen, 1912:116; LENGERSDORF, 1940:246 (this is most probably a misidentification and, so, not a Neotropical species). Type locality: U.S.A., New York. Distr. - U.S.A. (Maine, Massachusetts, N. York, North Caroline), Mexico. Type σ , Coquillett's coll.
freemani Lane, 1955:258, fig. 2 (σ genitalia). Type locality: Brazil, Santa Catarina, Nova Teutônia. Distr. - Brazil (São Paulo, Santa Catarina). Holotype σ , MZUSP.
glaberrima Edwards, 1934:370, fig. 4 (σ genitalia). Type locality: Bolivia, Mapiri, 4000-5000 m. Holotype σ , SMTD.
transversalis (Edwards), 1954:369, fig. 2 (wing) (*Mapiria*). Type locality: Bolivia, Mapiri, Lorenzopata. Holotype σ , SMTD, comb.n.
varians Lane, 1955:257. Type locality: Brazil, São Paulo, Salesópolis (Estação Biológica de Boracéia). Holotype σ , MZUSP.
unimacula Lane, 1955:257. type locality: Brazil, Santa Catarina, Nova Teutônia. Holotype σ , MZUSP.
zygoneura (Williston), 1896:267, pl. 8, fig. 23 (wing) (*Sciara*); LENGERSDORF, 1940:246 (as a *Zygoneura*). Type locality: St. Vincent, W.I. Lectotype σ , BMNH (here designated). WILLISTON (1896:268) referred to eight specimens in the type series. Six of them are in the BMNH, four of which are males.
willistoni Lengersdorf, 1940:246 (unnecessary nom. nov. for *Sciara zygonetura* Will.). FREY, 1942:36 (as a junior synonym of *Z. zygoneura* Will.). Type locality: St. Vincent, W.I.

Unplaced species of Sciaridae

- atomaria** Lynch Arribálzaga, 1892:402 (1892:28) (*Sciara*, preocc. Zetterstedt, 1851). Type locality: Argentina, Prov. Buenos Aires. Type lost. Unrecognizable.
- concinna** Williston, 1896:266 (*Sciara*). Type locality: St. Vincent, W.I. There is a single, very badly damaged specimen in the BMNH. Only the legs of this specimen are present. Although it was identified in the BMNH collection (possibly by EDWARDS) as a species of *Pseudosciara*, it seems better to wait until we examine any other syntype, so it can be placed with more certitude in any genus.
- costalis** Wiedemann, 1828:68 (*Sciara*). Type locality: "Brazil". Type ♂, NMF.
- diminutiva** Philippi, 1865:627 (*Sciara*). Type locality: Chile, Valdivia, Corral. Type lost. Unrecognizable.
- fasciata** Walker, 1856:419 (*Sciara*). Type locality: "Brazil". Type lost. Unrecognizable.
- heteropus** Philippi, 1865:627 (*Sciara*). Type locality: Chile, Valdivia, Corral. Type lost. Unrecognizable.
- marginalis** Röder, 1886:258 (*Sciara*). Type locality: Colombia, Bogotá. Type not located. Unrecognizable.
- rotundipennis** Macquart, 1838:178 (1839:294) (*Sciara*). Type locality: "Caroline". Type not located. Unrecognizable.
- sciastica** Williston, 1896:268, pl. 8, figs. 24 (wing), 24a (detail of antenna) (*Zygoneura*); LENGERSDORF, 1934:370 (as a *Sciara*). Type locality: St. Vincent, W.I. Holotype ♂, lost (EDWARDS, 1934:370).
- unicolor** Say, 1829:153 (1859:351). Type locality: Mexico. Type lost.

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