The Generic Names for Tabanidae (Diptera) Proposed by Adolfo Lutz

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THE GENERIC NAMES FOR TABANIDAE (DIPTERA) PROPOSED BY ADOLFO LUTZ

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Beginning in 1905, Dr. Adolfo Lutz published a considerable number of papers on South American Tabanidae, mainly the Brazilian fauna. He had evidently intended to monograph the fauna, and did treat the Pangoniinae, the Diachlorini and the genera Dichelesera, Stibasoma and Acanthocera in a thorough way. His other publications on the family consisted mostly of local lists, descriptions of new species, and short papers outlining his views on the generic classification of the Neotropical species.

In his papers of a monographic or revisional nature, Dr. Lutz appears to have well understood the rules governing zoological nomenclature, and new names appearing in these publications are for the most part validly proposed. In his papers on general classification and in his local lists, however, which he seems to have considered of a preliminary nature, it appears that he did not realize that the names he was using were then appearing for the first time and would have to be taken into consideration by subsequent students. In many cases these names were so casually proposed, either without adequate definition or without valid included species, and almost always without bibliographic reference, that it has proven very difficult to come to a decision on their validity. In other cases, it has been difficult to decide on the year in which a certain name, published as new on several occasions, was validated.

1 Paper No. 2455 of the Scientific Journal Series, Minnesota Agricultural Experiment Station, St. Paul 1, Minnesota.
2 On leave of absence 1949-1950 from Gorgas Memorial Laboratory, Panama, Republic of Panama.
Several students have attempted to clarify these matters, notably Bequaert (1924) who selected genotypes of many of Lutz’ genera and Borgmeier (1933) who, with better access to Lutz’ published works, corrected the dates of first appearance of some of his names and added others overlooked by previous workers. Enderlein (1922, 1925) and Kröber (1932, 1934) have used a number of Lutz’ names, and placed a good many more in synonymy, in some cases without adequate consideration.

In spite of these efforts, however, no complete listing of Lutz’ generic names has appeared, nor has the status of a number of them ever been carefully examined in the light of the International Rules of Zoological Nomenclature. The present paper is an attempt to do this. I have seen, I believe, all of Lutz’ publications, except one, which contain new generic names for Tabanidae, though there is always the possibility that others will turn up. Carlos Chagas (1925, 1929, 1934) published a list, with supplements, of Lutz’ published works on all subjects numbering over 200, but even it contains some errors and omissions. His papers dealing, in whole or in part, with Tabanidae number 27, of which about 17 contain matter of nomenclatorial importance. I have appended a list of all his papers containing references to Tabanidae of which I have knowledge, but there may be others.

Lutz appears to have published, alone or jointly, 43 generic names. Some of these were variants in spelling or new names to replace preoccupied names, but 32 seem to refer definitely to newly defined groups of generic or subgeneric rank. All these names are here listed, together with references to their first appearance in print and remarks on their validity. I have not attempted to show synonymies except in a few undoubted cases, as generic and subgeneric concepts in Tabanidae are still in a rather fluid state.

The most difficult point to settle is the status of the names published in the 1909e list. This publication is an illustrated brochure or guide book giving a description of the physical plant and investigations being undertaken by the Instituto Oswaldo Cruz. It also contains lists of the collections, publications, and library. It bears no date other than the year, and no authorship. In the list of Tabanidae, 15 new generic names are proposed, being indicated by “nov. gen.” or “n. gen.” in all cases. 13 of these appear with valid specific names, and, although the International Rules are somewhat loosely worded on this point, I believe, ignoring other considerations,
they are thereby validated. In regard to the authorship, it is now well known that Lutz was the author of this list. It is doubtful if he realized that the names appearing therein were being published in the nomenclatorial sense as he never subsequently referred to this paper although he consistently used the names proposed therein. He himself gave me my copy, and the whole list, with minor changes, was republished in 1911a, where the new genera are all credited to Lutz, according to Borgmeier. I have not been able to secure a copy of this paper, but it seems to have been also in the nature of a guidebook to the exhibit of the Instituto Oswaldo Cruz at some sort of international scientific exposition.

The difficulty in accepting these names as of 1909 lies not only in a lack of definitions, (which is of less importance, as the names were published before 1930, when the rules on this point were modified), but in the dubious character of the publication itself. The pamphlet is anonymous, it is not a periodical, nor any regular form of scientific publication, and there is much probability that it was never intended or offered for sale, though it may have had wide distribution. There is, thus, strong reason for considering that the names appearing in it were not validly published and are hence unavailable as of that date. If this stand be taken, the next chronological appearance of the names must be considered. This was the 1911a paper, which seems to have suffered from all the faults of its predecessor except anonymity. (The Pangoniinae may be excluded from further consideration, as the new genera of this division were all validly proposed with definitions or species in recognized journals in 1909, so that they date from this year in any case). If the 1911a paper be excluded from consideration nomenclatorially, the next in chronological order is 1912, where Dicladocera, although not defined as a genus, is accompanied by the description and figure of a valid species in a nomenclatorially acceptable publication. The difficulty here is that this species, unicolor Lutz, appears not to be congeneric with the species previously included, as Bequaert and Rengifo (1947 Psyche, 53 [3-4]:68) have pointed out, necessitating the use of Enderlein’s Dasychela for the species placed by Lutz in Dicladocera.

Lutz’ 1913a paper validates Stigmatophthalimus and adds Himantostylus. Then, also in 1913, comes the first exposition of Lutz’ scheme for the classification of the Tabaniniae. Here appear all the remaining names of the 1909c list, plus four additional new ones. They are not formally proposed as new genera and are not ac-
panied by specific names or references to previous publications, but they are recognizably defined by being placed in a key. They appear in an acceptable publication and would seem certainly available nomenclatorially as of this date. This paper was published twice, the first time above, and a year later, 1914b, where it is accompanied in parallel columns by a German translation, a common custom at that time in this journal. I can find no changes whatever in the later edition. Between the appearances of these two "editions", the 1914a paper appeared. In lists of species all the remaining 1909c names appear and are accompanied by valid specific names except Macrocorinus while several of the names first published in 1913 are here accompanied by valid specific names for the first time. Macrocorinus does not appear with a valid specific name in an acceptable publication until 1918, where it is listed as "T. (Macrocorinus) rubescens Bigot" and "Macrocorinus sorbillans".

It is thus seen that if the names appearing in the 1909c and 1911a papers are not considered nomenclatorially available as of these dates, they became available in 1913 when they were defined, or in 1912, 1914, or 1918 when they were accompanied by valid specific names. This change in dates appears to affect but two of these names, Dicladocera, which changes its sense as mentioned above and Neotabanus which becomes a homonym of Neotabanus Ricardo 1911 (Rec. Ind. Mus. 1:363, Type N. ceylonicus Ric. 1911). No new proposal of name for Neotabanus Lutz is necessary, since Taeniotaabanus Kröber 1930 (Dipt. Pat. S. Chile P. 140, Type T. occidentalis Linn.) is already available. In any event the group is hardly of subgeneric rank and may eventually prove undefinable.

The author has hitherto been inclined to take a liberal view of the case and accept the 1909 dating, though for the sake of fore-stalling possible future controversy, it might be well to adhere to a stricter interpretation of the rules and accept 1913 as the date for these names.

Amphichlorops, Lutz 1909c, p. 29, with A. flavus Wied., and A. variegatus n. sp. 1913b, defined in key. 1914a, with flavus Wied., Type T. flavus Wied. 1828 (Bequaert 1924).

Bombyloptis Lutz 1909a, p. 31, with nitens (Bigot), ?analis (Fab.) and leonina n. sp. 1909b, p. 646, with erythronotata Big., pseudoanalisis n. sp., analis Fab. 1805 and leonina n. sp. 1909c, p. 28, with erythronotata Big., ?analis Fab. and leonina n. sp. Type erythronotata Big. (Borgmeier 1933).
Bombylomorpha Lutz 1911a, p. 33, with erythronotata Big., pseudanalis n. sp., analis Fab. and leonina n. sp. Type erythronotata Bigot (Borgmeier 1933).

Bombylomyia Lutz 1911b, p. 69 with B. splendidens n. sp. descr. Bombylopsis changed to Bombylomyia. 1914a with nitens Big. The status of these names is confusing. Bombylomorpha and Bombylomyia may have been created to replace Bombylopsis, thought to be preoccupied. I have been unable to find that this name is preoccupied and Lutz and Castro 1936 have reverted to its use. The selection of erythronotata Big. as type of Bombylopsis is incorrect, as it was not included in the original publication. The only species available as genotype for Bombylopsis is nitens Bigot 1892 and it is here selected. Since both Bombylomyia and Bombylomorpha were substitute names, they take the same genotype. Ionopsis or Ionopsis (q.v.) will fall as a synonym, as it has the same genotype. There is no need to replace the latter name until it becomes clear that the concept it was intended to cover is needed.

Cataphylorops 1911a, emendation of Katakhalorops (q.v.).

Chelotabanus 1913b, p. 5, in key, no species. 1914a, p. 72, with fuscus Wied., impressus Wied., aurora Macq., cinerarius Wied. 1918 with aurora and impressus. See Odontotabanus. Type I. fuscus Wied. 1819 (Bequaert 1924).

Chlorotabanus 1909c, p. 30, with mexicanus L. 1913b, in key, no species. 1914a, with mexicanus L. 1911a, with mexicanus L. Type T. mexicanus L. 1767 (Bequaert 1924).

Chrysochiton Lutz and Castro, 1936, with auricinctus (Lutz and Neiva) bocainensis n. sp., nubiapeax (Lutz) and ruhrithorax (Kröb,). Type by original designation. Erephopsis auricinctus Lutz and Neiva 1909.

Cryptotylus 1909e, with unicolor Wied. 1911a with unicolor Wied. 1913b defined in key (Cryptotylus). Monotypic for T. unicolor Wied. 1828 (Borgmeier 1933).

Dieladocera 1909c, p. 29, with immaculata Macq., furcata Wied. (macrodonata Macq.), potator Wied., guttipennis Wied., macula (scutellata) Macq., luctuosa Macq. and ruhipennis Macq. 1911a, p. 34, with same species. 1912, with D. unicolor Lutz n. sp. descr. 1913b, defined in key (Dieladocera.) Type T. guttipennis Wied. 1828 (Enderlein 1922). The designation of unicolor Lutz by Bequaert (1924) and his subsequent restriction
rest on the assumption that Lutz' 1909c names were invalidly published. See introductory discussion above. Dyspanonia 1905, p. 22. defined and with fuscipennis Wied., clari n. sp., fasciata Macq., lugubris Macq., ferruginea Macq. 1909b p. 625=Esenbeckia Rond. Type Pangonia fuscipennis Wied. 1828 (Bequaert 1924).

Epipsila 1909b, p. 648 with eriomera Macq. and eriomeroides n. sp. descr. Type E. eriomeroides Lutz (Enderlein 1925).

Himantostylus 1913a, p. 183, defined and with intermedius n. sp. descr. Monotypic (not Himantostylus Borgm. 1933).

Ionopsis 1909c, p. 28 with nitens n. gen. (sic) and Foetterlei n. sp. 1909b, p. 650 defined and with nitens Bigot and Foetterlei n. sp. described (Ionopsis). The spelling will depend on which of these publications appeared first. Neave's Nomenclator gives Ionopsis, while Borgmeier (1933) maintains that Ionopsis was the original spelling. Type nitens Bigot 1892 (Enderlein 1925). The type species was originally included in Bombylopsis Lutz 1909a (q.v.) which has some months priority.

Katachlorops 1909c, p. 29, with fuscipennis Macq., rufescens Fab. interennus Walk., capreolus Wied. and bitinctus Walk. 1911a, p. 34, with same species. 1913b, defined in key only (Cathachlorops, Katachlorops) Type. Dichelacera fuscipennis Macq. 1847 (Bequaert 1924). The emended spelling Katachlorops, has largely prevailed.

Laphriomyia 1911b, p. 70, defined and with mirabilis n. sp. descr. The erroneous variant Laphriopsis appears on p. 71. 1911a p. 34 (Laphriomyia) Monotypic for L. mirabilis Lutz 1911.

Leptotabanus 1914a, p. 72, with nigrovenosus Lutz in list of Tabanidae from Xerem. 1918, in list only, no authority. 1921, in list only, no authority. The species seems never to have been described, though it is possible that Melanotabanus fuliginosus Lutz and Neiva (q.v.) was based on the same specimen. It is described in the same paper from a single specimen from Xerem, Rio de Janeiro, and the authors state in the paragraph preceding their list of Tabanidae from Xerem that the list includes a new species based on one specimen from Xerem. Leptotabanus nigrovenosus is the only new species in this list. Since the name is invalid, a nomen nudum, as listed by Neave, it does not preoccupy Leptotabanus Kröber 1931 as believed.
by Miller (1945), who proposed the unnecessary name Neo-

Leucotabanus 1913b, defined in key. 1914a, p. 71, with leucaspis
Wied. in list. 1914b, defined in key. Type Tabanus leucaspis
Wied. 1828 (Bequaert 1924)).

Macrocrumus 1909c, p. 29, with badius n. sp. sorbillans Wied.,
pseudosorbillans n. sp. and trizonophthalmus n. sp., 1911a,
p. 35 with same species. 1913b, defined in key. Type Tabanus
sorbillans Wied., 1928 (Bequaert 1924).

Melanotabanus 1914a, p. 76. defined and with fuliginosus n. sp.
described. Monotypic.

Micropanopgia 1922, p. 5, defined briefly by comparison with
Erephopsis. Said to contain two species, but none named. I
believe this to be a lapsus for Neopangonia Lutz (q.v.) as the
characters mentioned (open first posterior cell, long proboscis
and small size) are those used earlier to separate Neopangonia
from “Erephopsis”. Since the name could be construed as
having been defined, and hence valid, I hereby select Neo-
pangonia pusilla Lutz 1909 as genotype, as it agrees with the
definitions, thus making Micropanopgia a synonym of Neo-
pangonia.

Microtabanus 1922, p. 9, defined only by having unicolorous eyes
and being small. No species. This can hardly be construed as
a “definition” under the rules, and I consider the name invalid
and not preoccupying Microtabanus Fairchild 1937.

Mgiotabanus 1928, p. 59, with sarcophagoides n. sp. deser. and fig.
Although there is no statement that the genus is proposed as
new, it is combined with a valid specific name and I believe
should be considered valid. Monotypic.

Neopangonia 1909b, p. 651, defined and with pusilla n. sp. deser.
and fig. Monotypic. See also Micropanopgia.

Neotabanus 1909c, p. 29, with trilineatus Latr., modestus Wied.
and 16 other named species. 1911a, with same species. 1913b,
defined in key. 1914a, with obsoletus Wied., comitans Wied.,
ixyostactes Wied., ochrophilus Lutz, triangulum Wied., trilin-
eateus Latr. and others in list. Type Tabanus trilineatus Latr.
1814 (Bequaert 1924).

Odontotabanus 1918 Lutz, Araujo and Fonseca, with aurora, cin-
erarius, fuscus. 1926 Bequaert, Exped. Amazon, p. 233, cited
in synonymy with *aurora*. Lutz 1928, p. 56-57, with *cinerarius* Wied., *testaceus* Macq., *olivaceiventris* Macq., and *importunus* Wied. in list. Type *aurora* Macq. 1838 (Borgmeier 1933). Doubtfully distinct from *Chelotabanus*; Lutz used both names interchangeably in 1918.

*Orthostylus* 1914a, p. 74, defined and with *ambiguus* n. sp. descr. Monotypic. Preoccupied. See below.


*Phaconeura* 1909a, p. 645, defined in key and with *basilaris* Wied. sole species. 1909c, p. 29, with *basilaris* Wied. in list. 1911b, with *basilaris* in list (in German translation the name is *Phaomyia*, evidently a lapsus).

*Phacotabanus* 1913b, defined in key. 1914a, in list with *litigosus* Walk., *aphanipterus* Wied. *Type Tabanus litigosus* Walk. 1850 (Bequaert 1924).

*Poeziolosoma* 1909c, in list with *punetipenne* Macq., *quadripunctatum* Macq., *histrio* Wied., and *cinerum* Wied. 1911a, same species. 1913b, defined in key. *Type Tabanus quadripunctatus* Fab. 1805 (Bequaert 1924). (The name is four times preoccupied).

*Poezioderes* 1921, in list with "*quadripunctatum*". *Type T. quadripunctatus* Fab. 1805 (Borgmeier 1933).

*Poeziolochlamys* 1922, briefly defined and in key. 1928, in list with *quadripunctatus* Fab. *Type T. quadripunctatus* Fab. (Borgmeier 1933). The key is the same as the 1913 key, and this name replaces *Poeziolosoma* in it.

*Pseudocanthocera* 1913b, in key, no species. 1914a, in list with *marginata* Macq., *Silveirii* Macq. *Type Silvius Sylveirii* Macq. 1838 (Enderlein 1925).


*Pseudoscione* 1918, in list as *Pseudoscione longipennis* Ricardo. No description. 1928, p. 54, proposed for *Diatomineura longipennis* Ricardo and an unnamed species from Ecuador. Species said to resemble *Scione* but have venation like *Diatomineura*. No statement that genus is proposed as new. Genotype *Diatomineura longipennis* Ricardo 1902 here designated.
Rhabdotylus 1909c, p. 29, with viridiventris Macq. and planiventris Wied. 1913b, defined in key. 1914a, with viridiventris Macq. in list. Type T. planiventris Wied. 1828 (Bequaert 1924).

Stenotabanus 1913b, defined in key. 1914a, with taeniotes Wied. in list. Type T. taeniotes Wied. 1828 (Bequaert 1924).

Stictotabanus 1914, in list with anonymous n. sp. and maculipennis Macq. 1918 in list with conspicuus n. sp., no description. 1922, defined as having unicoronal eyes and a spot on the transverse veins; no species. Borgmeier 1933 gives type as T. maculipennis Macq. 1834, but this is unjustified, as there are two Macquart species of this name and Lutz did not specify. See also Bequaert 1924, Enderlein 1925. Maculipennis Macq. is invalid. (nee Wied. 1828). The name is very doubtfully valid.

Stigmaphthalmus 1909c, with altivagus n. sp. in list. 1911a. (not seen). 1913a, with altivagus n. sp. deser. and fig. Monotypic.

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