

# Papéis Avulsos de Zoologia

Museu de Zoologia da Universidade de São Paulo

Volume 56(16):177-181, 2016

www.mz.usp.br/publicacoes  
www.revistas.usp.br/paz

ISSN impresso: 0031-1049  
ISSN on-line: 1807-0205

## NOMENCLATURAL ACTS FOR SOME NEOTROPICAL TACHINIDAE (DIPTERA)

SILVIO S. NIHEI<sup>1,2</sup>  
RODRIGO DE V.P. DIOS<sup>1,3</sup>

### ABSTRACT

*New replacement names and synonymies are proposed for Neotropical Tachinidae, mainly from Brazil. The following 13 new replacement names are proposed for junior secondary homonyms: Jurinella neobesa, new name for Jurinella obesa (Townsend, 1928) (preocc. Wiedemann, 1830); Archytas wulpianus, new name for Archytas nigrocalyptratus (Wulp, 1888) (preocc. Macquart, 1846); Calodexia neofumosa, new name for Calodexia fumosa (Townsend, 1917) (preocc. Townsend, 1912); Calodexia bigoti, new name for Calodexia flavipes (Bigot, 1889) (preocc. Schiner, 1868); Eucelatoria paracarinata, new name for Eucelatoria carinata (Townsend, 1927) (preocc. Townsend, 1919); Eucelatoria currani, new name for Eucelatoria carinata (Curran, 1926) (preocc. Townsend, 1919); Lixophaga opsiangusta, new name for Lixophaga angusta (Townsend, 1927:294) (preocc. Townsend, 1927:284); Lixophaga thompsoniana, new name for Lixophaga fumipennis (Thompson, 1968) (preocc. Townsend, 1927); Lixophaga townsendiana, new name for Lixophaga fumipennis (Townsend, 1928) (preocc. Townsend, 1927); Myiopharus argentata, new name for Myiopharus argentescens (Townsend, 1935) (preocc. Townsend, 1927); Phyllophilopsis disgracilis, new name for Phyllophilopsis gracilis (Townsend, 1927) (preocc. Townsend, 1919); Phasia townsendiana, new name for Phasia brasiliana (Townsend, 1937) (preocc. Townsend, 1929); and Phasia aurodysderci, new name for Phasia dysderci (Townsend, 1940) (preocc. Townsend, 1938). And the two following synonymies are proposed (reinstated): Jurinella ambigua (Macquart, 1851) = Jurinella obesa (Wiedemann, 1830); and Archytas analis (Macquart, 1843) = Archytas analis (Fabricius, 1905).*

KEY-WORDS: New names; Synonymy; Tachinidae; Neotropical.

### INTRODUCTION

While preparing the Catalogue of Tachinidae of Brazil (Nihei *et al.*, 2015), we found several junior homonyms within the Neotropical tachinids, mainly from Brazil. In order to promote nomenclatural sta-

bility, and eliminating thus ambiguous names, we are proposing new replacement names for 13 species in the present contribution, and two synonymies are reinstated, namely: *Archytas analis* (Macquart, 1843) = *Archytas analis* (Fabricius, 1905); and *Jurinella obesa* (Wiedemann, 1830) = *Jurinella ambigua* (Macquart, 1851).

<sup>1</sup> Universidade de São Paulo, Instituto de Biociências, Departamento de Zoologia.  
Rua do Matão, Travessa 14, nº 101, Butantã, CEP 05508-090, São Paulo, SP, Brasil.

<sup>2</sup> E-mail: silvionihei@gmail.com

<sup>3</sup> E-mail: rodrigodios@gmail.com

The following acronyms were used for the repository museums cited in the text: **AMNH**, American Museum of Natural History, New York, USA; **BMNH**, Natural History Museum, London, UK; **CNC**, Canadian National Collection of Insects, Ottawa, Canada; **NHMJ**, Natural History Museum, Kingston, Jamaica; **NHMW**, Naturhistorisches Museum Wien, Austria; **USNM**, National Museum of Natural History, Washington DC, USA; and **ZMUC**, Zoological Museum, Copenhagen, Denmark.

## RESULTS

### Homonymies TACHININI

- 1. *Archytas nigrocalyptratus*** (Wulp, 1888:33) (*Echinomyia*). Holotype male (BMNH). *Type locality*: Mexico, Medellin, near Vera Cruz. Preocc. by *Archytas nigrocalyptratus* (Macquart, 1846:273) (1846:145) (*Jurinia*). *Type locality*: Brazil, Minas Gerais.

*Notes*: Guimarães (1971:51) first recognized this homonymy and noted: "This species is a secondary homonym of the preceding; as both are unrecognized I prefer not to rename it at present".

*Nomen novum*: *Archytas wulpianus*, new name for *Archytas nigrocalyptratus* (Wulp).

- 2. *Jurinella obesa*** (Townsend, 1928:153) (*Parajurinia*). Holotype male (USNM). *Type locality*: Brazil, Espírito Santo. Preocc. by *Jurinella obesa* (Wiedemann, 1830:282) (*Tachina*). Syntypes male/female (NHMW, ZMUC). *Type locality*: "Brazil".

*Notes*: When Woodley (2007) synonymized *Parajurinia* Townsend, 1928 with *Jurinella* Brauer & Bergenstamm, 1889, this brought the new combination, *Jurinella obesa* (Townsend, 1928) (type species of *Parajurinia*), which became a junior secondary homonym of *Jurinella obesa* (Wiedemann, 1830).

*Nomen novum*: *Jurinella neobesa*, new name for *Jurinella obesa* (Townsend).

### BLONDELIINI

- 3. *Calodexia fumosa*** (Townsend, 1917:227) (*Ommaleskia*). Holotype male (AMNH). *Type*

*locality*: Brazil, Rio de Janeiro. Preocc. by *Calodexia fumosa* (Townsend, 1912) (*Oestrogaster*). Holotype female (USNM). *Type locality*: Peru, Cajamarca, Jaen, Charape River.

*Notes*: *Ommaleskia fumosa* Townsend, 1917 and *Oestrogaster fumosa* Townsend, 1912 are type species of their respective original genera, and became secondary homonyms since the synonymy between *Ommaleskia* and *Oestrogaster* with *Calodexia* were proposed by Wood (1985:25).

*Nomen novum*: *Calodexia neofumosa*, new name for *Calodexia fumosa* (Townsend, 1917).

- 4. *Calodexia flavipes*** (Bigot, 1889:268) (*Homodexia*). Holotype female (BMNH). *Type locality*: "Mexico" Preocc. by *Calodexia flavipes* (Schiner, 1868:326) (*Meigenia*). Holotype male (NHMW). *Type locality*: "Brazil".

*Notes*: *Homodexia flavipes* Bigot was used as type species of *Eucalodexia* Townsend, 1908, but this genus was synonymized with *Calodexia* Wulp, 1891 by Wood (1985:25). Since then, it is a secondary homonym of *Calodexia flavipes* (Schiner).

*Nomen novum*: *Calodexia bigoti*, new name for *Calodexia flavipes* (Bigot).

- 5. *Eucelatoria carinata*** (Townsend, 1927:359) (*Tachinophytopsis*). Holotype female (USNM). *Type locality*: Brazil, São Paulo, Tremembé. Preocc. Townsend, 1919. Preocc. by *Eucelatoria carinata* (Townsend, 1919:578) (*Machairomasicera*). Holotype female (USNM). *Type locality*: Ecuador, Manchi.

*Notes*: These three names (see the next case) became secondary homonyms in *Eucelatoria* after the generic synonymies and new combinations proposed by Wood (1985:40).

*Nomen novum*: *Eucelatoria paracarinata*, new name for *Eucelatoria carinata* (Townsend, 1927).

- 6. *Eucelatoria carinata*** (Curran, 1926:108) (*Lixinia*). Holotype male (NHMJ). *Type locality*: Jamaica, Hope Gardens. Preocc. Townsend, 1919. Preocc. by *Eucelatoria carinata* (Townsend, 1919:578) (*Machairomasicera*). Holotype female (USNM). *Type locality*: Ecuador, Manchi.

*Notes:* These three names (see the previous case) became secondary homonyms in *Eucelatoria* after the generic synonymies and new combinations proposed by Wood (1985:40).

*Nomen novum:* *Eucelatoria currani*, new name for *Eucelatoria carinata* (Curran).

7. ***Lixophaga angusta*** (Townsend, 1927:294) (*Cataphorinia*). Holotype male (USNM). *Type locality:* Brazil, São Paulo, Itaquaquecetuba. Preocc. by *Lixophaga angusta* (Townsend, 1927:284) (*Actinotachina*). Holotype female (USNM). *Type locality:* Peru, Yahuar Mayo.

*Nomen novum:* *Lixophaga opsiangusta*, new name for *Lixophaga angusta* (Townsend, 1927:294).

8. ***Lixophaga fumipennis*** (Thompson, 1968:134) (*Cataphoriniopsis*). Holotype female (CNC). *Type locality:* Trinidad, "Simla". Preocc. by *Lixophaga fumipennis* (Townsend, 1927:345) (*Paraprospherysa*). Holotype female (USNM). *Type locality:* Brazil, São Paulo, Cantareira.

*Nomen novum:* *Lixophaga thompsoniana*, new name for *Lixophaga fumipennis* (Thompson).

9. ***Lixophaga fumipennis*** (Townsend, 1928:147) (*Euprospherysa*). Holotype male (USNM). *Type locality:* Peru, Las Flores, Mayo River. Preocc. by *Lixophaga fumipennis* (Townsend, 1927:345) (*Paraprospherysa*). Holotype female (USNM). *Type locality:* Brazil, São Paulo, Cantareira.

*Nomen novum:* *Lixophaga townsendiana*, new name for *Lixophaga fumipennis* (Townsend, 1928).

10. ***Myiopharus argentescens*** (Townsend, 1935:226) (*Anoxynopsella*). Holotype female (USNM). *Type locality:* Brazil, Pernambuco, Tapera. Preocc. by *Myiopharus argentescens* (Townsend, 1927:332) (*Neoargyrophylax*). Holotype male (USNM). *Type locality:* Brazil, São Paulo, Itaquaquecetuba.

*Nomen novum:* *Myiopharus argentata*, new name for *Myiopharus argentescens* (Townsend, 1935).

11. ***Phyllophilopsis gracilis*** (Townsend, 1927:365) (*Xanthophyllophila*). Holotype male (USNM). *Type locality:* Brazil, São Paulo, Itaquaquecetuba. Preocc. by *Phyllophilopsis gracilis* (Townsend,

1919:565) (*Microchaetona*). Holotype male (USNM). *Type locality:* Peru, Inambari River, Yahuar Mayo.

*Nomen novum:* *Phyllophilopsis disgracilis*, new name for *Phyllophilopsis gracilis* (Townsend, 1927).

## PHASIINI

12. ***Phasia brasiliana*** (Townsend, 1937:317) (*Paraphoranthia*). Holotype female (USNM). *Type locality:* Brazil, São Paulo, Campinas. Preocc. by *Phasia brasiliana* (Townsend, 1929:370) (*Alophorella*). Holotype male (USNM). *Type locality:* Brazil, São Paulo, Itaquaquecetuba.

*Notes:* Herting (1984) synonymized *Alophorella* Townsend, 1912 with *Phasia* Latreille, 1804; later O'Hara & Wood (1998) synonymized *Paraphoranthia* Townsend, 1915 with *Phasia*, but left the homonymy between *Phasia brasiliana* (Townsend, 1937) and *Phasia brasiliana* (Townsend, 1929) unchanged.

*Nomen novum:* *Phasia townsendiana*, new name for *Phasia brasiliana* (Townsend, 1937).

13. ***Phasia dysderci*** (Townsend, 1940:889) (*Paraphasia*). Syntype male (USNM). *Type locality:* Brazil, São Paulo, Campinas and Sorocaba. Preocc. by *Phasia dysderci* (Townsend, 1938:347) (*Euphoranthia*). Syntypes 1 male and 1 female (USNM). *Type locality:* Brazil, São Paulo, Sorocaba.

*Notes:* Guimarães (1971) proposed the new combination *Alophorella dysderci* for this species originally described as *Euphoranthia*. Later, Sun & Marshall (2003) synonymized several Neotropical genera under *Phasia*, but had left these homonyms unchanged.

*Nomen novum:* *Phasia aurodysderci*, new name for *Phasia dysderci* (Townsend, 1940).

## Synonymies TACHININI

1. ***Archytas analis*** (Macquart, 1843:196) (1843:39) (*Jurinia*). *Type locality:* "Brazil". Junior synonym of *Archytas analis* (Fabricius, 1805:311) (*Tachina*). Holotype (ZMUC). *Type locality:* "America meridionali" [probably British Guiana, Essequibo River]. **Syn. nov.**

*Notes:* Guimarães (1971:48) first recognized this homonymy and noted: "This species is a secondary homonym of the preceding one; as both are unrecognized I prefer not to rename it at present". It is curious that he had defined *A. analis* (Fabricius) as unrecognized, whereas several other authors, previously and posteriorly, were able to identify this taxon, even proposing new junior synonymies under this nominal species (e.g., Austen, 1907; Ravlin & Stehr, 1984). The original description given by Fabricius is poor, but the examination of the female type, although a female, allows its unambiguous identification. Therefore, only *analis* Macquart can be regarded as unrecognized. In his revision of *Archytas*, Guimarães (1961:374) listed *analis* Macquart as synonym of *analis* Fabricius, which we reinstate here.

2. *Jurinella ambigua* (Macquart, 1851:145) (Macquart, 1851:172) (*Hystericia*). *Type locality:* Mexico, Guerrero. Junior synonym of *Jurinella obesa* (Wiedemann, 1830:282) (*Tachina*). *Syntypes* male/female (NHMW, ZMUC). *Type locality:* "Brazil". **Syn. nov.**

*Notes:* Townsend (1931:159) had already proposed this synonymy, thereafter Curran (1947:66) put this synonymy as doubtful only because the color of abdomen is different. Then, Guimarães (1971) treated *ambigua* Macquart as valid name and *obesa* Wiedemann as unrecognized, even though the syntypes of the latter are available for study. Thus, we are now reinstating the synonymy between *Jurinella obesa* (Wiedemann, 1830) and *Jurinella ambigua* (Macquart, 1851).

## RESUMO

*Novos nomes e sinônímias são propostos para Tachinidae da Região Neotropical, principalmente do Brasil. Os seguintes nomes (13) são propostos para homônimos secundários juniores: Jurinella neobesa, novo nome para Jurinella obesa (Townsend, 1928) (preocc. Wiedemann, 1830); Archytas wulpianus, novo nome para Archytas nigrocalyptratus (Wulp, 1888) (preocc. Macquart, 1846); Calodexia neofumosa, novo nome para Calodexia fumosa (Townsend, 1917) (preocc. Townsend, 1912); Calodexia bigoti, novo nome para Calodexia flavipes (Bigot, 1889) (preocc. Schiner, 1868); Eucelatoria paracarinata, novo nome para Eucelatoria carinata (Townsend, 1927) (preocc. Townsend, 1919); Eucelatoria currani, novo nome para Eucelatoria carinata (Curran, 1926) (preocc. Townsend, 1919); Lixophaga opsiangusta, novo nome para Lixophaga angusta*

*(Townsend, 1927:294) (preocc. Townsend, 1927:284); Lixophaga thompsoniana, novo nome para Lixophaga fumipennis (Thompson, 1968) (preocc. Townsend, 1927); Lixophaga townsendiana, novo nome para Lixophaga fumipennis (Townsend, 1928) (preocc. Townsend, 1927); Myiopharus argentata, novo nome para Myiopharus argentescens (Townsend, 1935) (preocc. Townsend, 1927); Phyllophilopsis disgracilis, novo nome para Phyllophilopsis gracilis (Townsend, 1927) (preocc. Townsend, 1919); Phasia townsendiana, novo nome para Phasia brasiliana (Townsend, 1937) (preocc. Townsend, 1929); e Phasia aurodysderci, novo nome para Phasia dysderci (Townsend, 1940) (preocc. Townsend, 1938). E duas sinônímias são propostas (restauradas): Archytas analis (Macquart, 1843) = Archytas analis (Fabricius, 1905), e Jurinella ambigua (Macquart, 1851) = Jurinella obesa (Wiedemann, 1830).*

PALAVRAS-CHAVE: NOVOS NOMES; SINONÍMIA; TACHINIDAE; NEOTROPICAL.

## ACKNOWLEDGEMENTS

Financial support from FAPESP (SSN research grant, proc. n. 2015/10788-0) and CNPq (SSN fellowship, proc. n. 303615/2015-2). Thanks to Elizabeth Morrison (NHMJ) for kindly informing us about the location of the type of *Lixinia carinata* Curran, and to Peter Sehnal (NHMW) who kindly shared with us his unpublished catalogue of types deposited at Wien collection.

## REFERENCES

- AUSTEN, E.E. 1907. The synonymy and generic position of certain species of Muscidae (sens. lat.) in the collection of the British Museum, described by the late Francis Walker. *Annals and Magazine of Natural History*, (7)19:327-347.
- BIGOT, J.M.F. 1889. Diptères nouveaux on peu connus, 34<sup>a</sup> partie, XLII. Diagnoses de nouvelles espèces. *Annales de la Société entomologique de France*, 8(6):253-270.
- CURRAN, C.H. 1926. Appendix. New Diptera of Jamaica. *Entomological Bulletin*, Jamaica, 4(1-2):72-90. (Gowdey, C.C. (Ed.). Catalogus Insectorum Jamaicensis).
- CURRAN, C.H. 1947. New and little known American Tachinidae. *Bulletin of the American Museum of Natural History*, 89:45-122.
- FABRICIUS, J.C. 1805. *Systema antliatorum secundum ordines, genera, species adiectis synonymis, locis, observationibus, descriptionibus*. Brunsvigae. 373p.
- GUIMARÃES, J.H. 1961. Terceira contribuição ao conhecimento do gênero *Archytas* Jaenicke, 1867 (Diptera, Tachinidae). *Memórias do Instituto Oswaldo Cruz*, 59:355-396.
- GUIMARÃES, J.H. 1971. 104. Family Tachinidae (Larvaevoridae). In: Papavero, N. (Ed.). *A catalogue of the Diptera of Americas*

- south of the United States*. São Paulo, Depto. de Zoologia, Secretaria da Agricultura. 333p.
- MACQUART, J. 1843. Diptères exotiques nouveaux ou peu connus. *Mémoires de la Société Royale des Sciences, de l'Agriculture et des Arts de Lille*, 1842:162-460. [Also printed separately as his "Dipteres exotiques nouveaux ou peu connus". v. 2, pt. 3, 5-304 Paris, Roret, 1843].
- MACQUART, J. 1846. Diptères exotiques nouveaux ou peu connus. [1.er] Supplément. *Mémoires de la Société Royale des Sciences, de l'Agriculture et des Arts de Lille*, 1844:133-364. [Also published separately as his "Dipteres exotiques nouveaux ou peu connus". Supplément I [part], p. 5-238. Paris, Roret, 1846].
- MACQUART, J. 1851. Diptères exotiques nouveaux ou peu connus. Suite du 4e supplement publié dans les memoires de 1849. *Mémoires de la Société Royale des Sciences, de l'Agriculture et des Arts de Lille*, 1850:134-294. [Also published as "Dipteres exotiques nouveaux ou peu connus". Supplément IV [part], pp. 161-336. Paris, Roret, 1851].
- NIHEI, S.S.; DIOS, R.V.P. & SANTIS, M.D. 2015. Tachinidae. In: Catálogo Taxonômico da Fauna do Brasil. PNUD. Available on: <http://fauna.jbrj.gov.br/fauna/faunadobrasil/1115>. (20/Oct/2015).
- O'HARA, J.E. & WOOD, D.M. 1998. Tachinidae (Diptera): nomenclatural review and changes, primarily for America north of Mexico. *The Canadian Entomologist*, 130(06):751-774.
- RAVLIN, F.W. & STEHR, F.W. 1984. Revision of the genus *Archytas* (Diptera: Tachinidae) for America north of Mexico. *Miscellaneous Publications of the Entomological Society of America*, 58:1-59.
- SCHINER, J.R. 1868. Diptera. In: *Reise der österreichischen Fregatte Novara um die Erde in den Jahren 1857, 1858, 1859, unter den Befehlen des Commodore B. von Willerstorff-Urbair*. Vol. 2, Part I (Section B). Wien, Karl Gerold's Sohn. 388p.
- SUN, X. & MARSHALL, S.A. 2003. Systematics of *Phasia* Latreille (Diptera: Tachinidae). *Zootaxa*, 276:1-320.
- THOMPSON, W.R. 1968. The Tachinids of Trinidad. VIII. Photocerines. *Memoirs of the Entomological Society of Canada*, 56:1-207.
- TOWNSEND, C.H.T. 1908. The taxonomy of the muscoidean flies, including description of new genera and species. *Smithsonian Miscellaneous Collections*, 51:1-138.
- TOWNSEND, C.H.T. 1912. Descriptions of new genera and species of muscoid flies from the Andean and Pacific Coast regions of South America. *Proceedings of the United States National Museum*, 43(1935):301-367.
- TOWNSEND, C.H.T. 1917. Second paper on Brazilian Muscoidea collected by Herbert H. Smith. *Bulletin of the American Museum of Natural History*, 37(6):221-233.
- TOWNSEND, C.H.T. 1919. New genera and species of muscoid flies. *Proceedings of the United States National Museum*, 56(2301):541-592.
- TOWNSEND, C.H.T. 1927. Synopse dos gêneros muscoideos da região húmida tropical da America, com gêneros e espécies novas. *Revista do Museu Paulista*, 15:203-385.
- TOWNSEND, C.H.T. 1928. New Muscoidea from humid tropical South America. *Wiener Entomologische Zeitung*, 44:143-154.
- TOWNSEND, C.H.T. 1929. New species of humid tropical American Muscoidea (Sic). *Revista Chilena de Historia Natural*, 32[1928]:365-382.
- TOWNSEND, C.H.T. 1931. Notes on American Oestromuscid types. *Revista de Entomologia*, 1:65-104, 157-182.
- TOWNSEND, C.H.T. 1935. New South America oestroidea (Dipt.). *Revista de Entomologia*, 5 (2):216-233.
- TOWNSEND, C.H.T. 1937. New fly parasites of *Dysdercus*. *Revista de Entomologia*, 7:316-318.
- TOWNSEND, C.H.T. 1938. New fly parasites of *Dysdercus*. *Revista de Entomologia*, 8:(3-4), 347-348.
- TOWNSEND, C.H.T. 1940. New oestroid flies from Brazil. *Revista de Entomologia*, 11:889-894.
- WIEDEMANN, C.R.W. 1830. *Aussereuropäische zweiflügelige Insekten*. Schulz, Hamm, Zweiter Theil, xii + 684pp.
- WOOD, D.M. 1985. A taxonomic conspectus of the Blondeliini of North and Central America and the West Indies (Diptera: Tachinidae). *Memoirs of the Entomological Society of Canada*, 132, 1-132.
- WOODLEY, N.E. 2007. A new species of *Jurinella* (Diptera: Tachinidae) from the Dominican Republic with a key to genera of the tribe Tachinini from the Caribbean. *Proceedings of the Entomological Society of Washington*, 109:856-862.
- WULP, F.M. VAN DER. 1888-1903. Insecta. Diptera. In: Godman, F.D. & Salvin, O. (Eds.). *Biologia Centrali Americana, or, contributions to the knowledge of the fauna and flora of Mexico and Central America. Zoologia. Class Insecta. Order Diptera*. London, Taylor & Francis. v. 2, x + 489p.
- WULP, F.M. VAN DER. 1891. Fam. Muscidae (cont.) In: Godman, F.D. & Salvin, O. (Eds.). *Biologia Centrali-Americana or, contributions to the knowledge of the fauna and flora of Mexico and Central America. Zoologia. Class Insecta. Order Diptera*. London, Taylor & Francis. v. 2, p. 209-224; 225-248; 249-264 (cont.).

Aceito por Carlos Lamas em: 03/11/2016

Publicado em: 17/11/2016