# Revisiting homonyms in the genus Tachina Meigen (Diptera: Tachinidae)

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# Abstract

The rules of nomenclature regarding junior homonyms among species-group names are briefly reviewed. The status of seven species-group names in the genus *Tachina* Meigen, 1803 (Fig. 1) that were interpreted as junior homonyms and declared invalid by P.H. Arnaud Jr. in 1992 and 1994 are re-evaluated. The status of one junior primary homonym remains unchanged. Of the six other names treated as junior secondary homonyms by Arnaud, five are reinstated as valid names in the genus Tachina. The replacement names they had been given previously are thus invalid and fall into synonymy with the original names. The following nomenclatural changes are necessary according to the ICZN Code: Fabriciella hispida Tothill, 1924, status revived (as Tachina (Nowickia) hispida (Tothill)), with junior synonym Fabriciella ampliforceps Rowe, 1931; Fabriciella intermedia Reinhard, 1942, status revived (as Tachina (Nowickia) intermedia (Reinhard)), with junior synonym Tachina californimyia Arnaud, 1992, **new synonymy**; *Fabriciella latifrons* Tothill, 1924, status revived (as Tachina (Rhachogaster) latifrons (Tothill)), with junior synonym Tachina oligoria Arnaud, 1992, new synonymy; Jurinia nitida van der Wulp, 1882, status revived (as Tachina (Rhachogaster) nitida (van der Wulp)), with junior synonym Upodemocera robinsoni Townsend, 1915; Fabriciella spinosa Tothill, 1924, status revived (as Tachina (Nowickia) spinosa (Tothill)), with junior synonym Tachina nearctica Arnaud, 1992, new synonymy. Additionally, Tachina hispida Robineau-Desvoidy, 1830 is moved from its placement as a nomen dubium in Tachinidae to a *nomen dubium* in *Exorista* Meigen, 1830.



Figure 1. A male of the genus Tachina Meigen, Tachina (Nowickia) latifacies (Tothill) from North America. Images from TachImage Gallery (O'Hara & Henderson, 2018; photos by S.J. Henderson.)

# Introduction

he *Manual of Nearctic Diptera* (McAlpine *et al*. 1981, 1987, 1989, hereafter the *Manual*) (Fig. 2) was the begin-I ning of a new era in Nearctic dipterology. Dipterists were finally able to replace their worn copies of the classic Families and Genera of North American Diptera (Curran 1934) and at the same time pair this new manual with another recent extraordinary resource, A Catalog of the Diptera of America North of Mexico (Stone et al. 1965). Indeed, the need for a replacement of Curran's work was all the more pressing in light of the new catalogue.



Figure 2. The three volumes of the Manual of Nearctic Diptera (McAlpine et al. 1981, 1987, 1989). (Photo by J.E. O'Hara.)

The manner in which the Manual was planned and prepared was discussed in the introduction to the first volume and was reviewed in the later Festschrift honouring the coordinators of the project (Cumming et al. 2011, Sinclair et

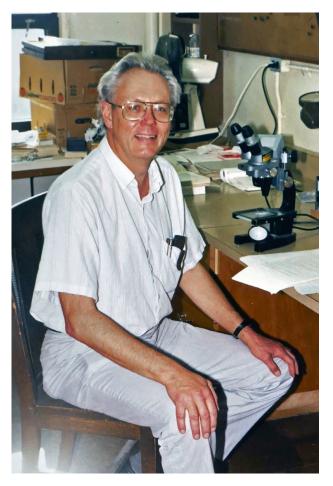


Figure 3. Monty Wood in his office at the Canadian National Collection of Insects in Ottawa, ca. 1989. (Photo by J.E. O'Hara.)

al. 2011). Of particular significance to the subject of this article was the decision that no new taxa would be proposed in the Manual. Overt changes to the current classification were also frowned upon. This posed a problem for D. Monty Wood (Fig. 3), the author of the Tachinidae chapter (Wood 1987), because he was in the midst of a reclassification of Nearctic tachinids at the same time as he was preparing his chapter for the *Manual*. He wrote his key to conform to his new ideas about generic concepts and circumvented the Manual guidelines against new taxonomic acts by using footnotes to add species from other genera to the genera being keyed. These were de facto new combinations but their innocent wording escaped the ire of the other Manual coordinators.

The new combinations of Wood (1987) and the key itself essentially ushered in a new generic classification for North American Tachinidae. However, there were literally hundreds of new combinations and as a result some species names that were fine in their previous combinations were now homonyms. These were not identified in the Manual chapter and their presence was left for others to discover and sort out. The first author to take this on was Paul Arnaud of the California Academy of Sciences in San Francisco, a respected dipterist and co-author of the Tachinidae chapter in the earlier Catalog of the Diptera of America North of Mexico (Sabrosky & Arnaud 1965). Arnaud found what he believed to be junior homonyms in the genus Tachina Meigen, 1803 (Fig. 1) resulting from Wood's synonymy of Nowickia Wachtl, 1894 and Metopotachina Townsend, 1915 with Tachina. Six names were treated as homonyms in one paper (Arnaud 1992) and one overlooked homonym was the subject of a second paper (Arnaud 1994).

Before I discuss the papers of Arnaud (1992, 1994) and the homonyms proposed therein, I will briefly digress for a review of the meaning of "homonym" in the sense of the International Code of Zoological Nomenclature (ICZN 1999, hereafter the Code).

The Code requires that each species in a genus have a different name. This gets a little complicated because there are four types of species-group names:

Available name – a name that satisfies the provisions of Articles 10 to 20 in the Code. Generally speaking, a new species must be properly published, named, described, and represented by a name-bearing type (e.g., a holotype).

Unavailable name – a name that does not satisfy all the provisions of Articles 10 to 20 in the Code. This can be a manuscript name cited in a paper without a description or a name that appeared in an unpublished work (e.g., a hand-out at a congress).

Valid name – in short, an available name that is properly used for a species. Musca domestica Linnaeus is the valid species name for the house fly.

Invalid name – in short, an available name that is lower in priority for a species than another name (i.e., the valid name). In most species lists, these are the names listed in synonymy below a valid name.

Next we come to homonyms, which are central to the subject of this article. Here I quote the meaning of a homonym, as it pertains to species names, directly from the Glossary of the Code (1999: 105-106):

"In the species group: each of two or more available specific or subspecific names having the same spelling, or spellings deemed under Article 58 to be the same, and established for different nominal taxa, and either originally (primary homonymy) or subsequently (secondary homonymy) combined with the same generic name [Art. 53.3]."

# Primary homonym discovered by Arnaud (1992)

rimary homonyms are generally straightforward. An author describes a species in a binomen that is exactly the same as one published previously by the same or different author. According to Article 57.2, the senior (older) name takes priority and the junior name is permanently invalid. Primary homonyms are unaffected by such taxonomic acts as moving species from one genus to another.

Paul Arnaud found one pair of primary homonyms when he investigated the status of species names in Tachina after the recombinations of Wood (1987). By definition, these primary homonyms existed before Wood's key but they eluded discovery until Arnaud's scrutiny of Tachina names.

#### Tachina florum Walker, 1849: 722.

This was treated as valid by both Sabrosky & Arnaud (1965: 994) and Wood (1987: 1244). The former recognized the species as Nowickia (Fabriciella) florum (Walker) and the latter as Tachina (Nowickia) florum Walker. Arnaud (1992: 166–167) discovered that the Walker name is a junior primary homonym of *Tachina florum* Robineau-Desvoidy, 1830, a name currently in synonymy with the Palaearctic species Exorista (Adenia) rustica (Fallén) (Herting & Dely-Draskovits 1993: 127). The name Tachina florum Walker is thus permanently invalid. It was replaced by the next oldest synonym and the valid name for the species became Tachina (Nowickia) dakotensis (Townsend, 1892) (Arnaud 1992). Later, Tachina florum Walker, 1849, was placed in synonymy with Tachina (Rhachogaster) algens Wiedemann, 1830 by O'Hara & Wood (2004: 331) but this did not affect the status of *Tachina* (*Nowickia*) *dakotensis*.

# Secondary homonyms sensu Arnaud (1992, 1994)

he six species-group names treated as secondary junior synonyms by Arnaud (1992, 1994) are listed in alphabetical order by species name below and the status of each is reviewed and re-evaluated.

#### 1. hispida Tothill, 1924: 265, Fabriciella.

COMBINATION OF SABROSKY & ARNAUD (1965: 995): Nowickia (Nowickia) hispida (Tothill, 1924).

NEW COMBINATION OF WOOD (1987: 1244): Tachina hispida (Tothill, 1924).

HOMONYMY SENSU ARNAUD (1992: 166): Tachina hispida Tothill, 1924 sensu Wood (1987) was recognized as a junior secondary homonym of Tachina hispida Robineau-Desvoidy (1830: 189). Sabrosky & Arnaud (1965: 995) had listed one junior synonym of hispida Tothill, Fabriciella ampliforceps Rowe, 1931. Arnaud (1992: 166) replaced the invalid name hispida Tothill with the name of the junior synonym, with the valid name becoming Tachina ampliforceps (Rowe, 1931).

COMBINATION OF O'HARA & WOOD (1998: 766–767): Tachina ampliforceps (Rowe, 1931).

COMBINATION OF O'HARA & WOOD (2004: 326): Tachina (Nowickia) ampliforceps (Rowe, 1931).

PRESENT INTERPRETATION: Tachina hispida Robineau-Desvoidy, 1830 was treated by Bezzi & Stein (1907: 337) as a junior synonym of *Tachina* (*Tachina*) *larvarum* (Linnaeus, 1758). For nomenclatural reasons, *Tachina* Meigen, 1803 at the time of Bezzi & Stein (1907) was the name in use for present-day Exorista Meigen, 1803 (see explanation in Sabrosky 1999: 138); Tachina and Exorista are taxonomically distant genera and belong to different subfamilies.

Tachina hispida Robineau-Desvoidy was not listed in Herting (1984) and was relegated to "Doubtful taxa in Tachinidae" by Herting & Dely-Draskovits (1993: 447). This name is not so "doubtful" as it may seem. Its resemblance to Tachina littoralis Robineau-Desvoidy, 1830 was noted by the author himself ("Cette espèce est toutà-fait semblable au T. littoralis") and T. littoralis is currently treated as a junior synonym of Exorista (Exorista) larvarum (Linnaeus) (Herting & Dely-Draskovits 1993: 122). Bezzi & Stein (1907: 337) had also placed littoralis in synonymy with larvarum but called the genus Tachina (see above).

Tachina hispida Robineau-Desvoidy could be (mis)construed as a valid name of uncertain generic placement in the Tachinidae because of its listing in "Doubtful taxa in Tachinidae" (Herting & Dely-Draskovits 1993) and could technically be treated as a senior secondary homonym of Tachina hispida Tothill, 1924. However, this taxon clearly belongs to Exorista and is most likely a synonym of Exorista larvarum (Linnaeus) or a related species. It is not a true Tachina in the present sense of the genus and is not a senior homonym of hispida Tothill, 1924. To avoid any ambiguity in this matter, I hereby transfer Tachina hispida Robineau-Desvoidy, 1830 to doubtful species status (i.e., as a nomen dubium) in Exorista Meigen, 1830.

CURRENT STATUS: Tachina (Nowickia) hispida (Tothill, 1924). Status revived.

SYNONYMY: Fabriciella ampliforceps Rowe, 1931: 673-674.

DISTRIBUTION: Alaska and Northwest Territories [& Nunavut], British Columbia south to California and New Mexico, east to New York and Newfoundland (O'Hara & Wood 2004: 326).

#### 2. intermedia Reinhard, 1942: 27-28, Fabriciella.

NEW COMBINATION OF SABROSKY & ARNAUD (1965: 993): Metopotachina intermedia (Reinhard, 1942).

NEW COMBINATION OF WOOD (1987: 1244): Tachina intermedia (Reinhard, 1942).

HOMONYMY SENSU ARNAUD (1992: 167): Tachina intermedia (Reinhard, 1942) sensu Wood (1987) was recognized as a junior secondary homonym of Tachina intermedia Zetterstedt (1844: 1114). In the absence of a junior synonym to replace the name intermedia Reinhard, the new name Tachina californimyia Arnaud, 1992 was proposed.

COMBINATION OF O'HARA & WOOD (1998: 766-767): Tachina californimyia Arnaud, 1992.

COMBINATION OF O'HARA & WOOD (2004: 326): Tachina (Nowickia) californimyia Arnaud, 1992.

PRESENT INTERPRETATION: Tachina intermedia Zetterstedt, 1844 was treated by Bezzi & Stein (1907: 212) as a valid species name in Ernestia Robineau-Desvoidy, 1830 and its current combination is Panzeria intermedia (Zetterstedt) (Cerretti 2010: 329). It is not a senior homonym of intermedia Reinhard, 1942 because the two names are not (and have never been) treated together in the genus *Tachina* Meigen, 1803.

CURRENT STATUS: Tachina (Nowickia) intermedia (Reinhard, 1942). Status revived.

SYNONYMY: Tachina californimyia Arnaud, 1992: 167 (unnecessary nomen novum for Fabriciella intermedia Reinhard, 1942). New synonymy.

DISTRIBUTION: Nearctic: USA (California) (O'Hara & Wood 2004: 326).

#### 3. latifrons Tothill, 1924: 260, 269, Fabriciella.

NEW COMBINATION OF SABROSKY & ARNAUD (1965: 995): Nowickia (Rhachogaster) latifrons (Tothill, 1924).

NEW COMBINATION OF WOOD (1987: 1244): Tachina latifrons (Tothill, 1924).

HOMONYMY SENSU ARNAUD (1992: 167): Tachina latifrons (Tothill, 1924) sensu Wood (1987) was recognized as a junior secondary homonym of Tachina latifrons Meigen (1824: 365). In the absence of a junior synonym to replace the name latifrons Tothill, the new name Tachina oligoria Arnaud, 1992 was proposed.

COMBINATION OF O'HARA & WOOD (1998: 766-767): Tachina oligoria Arnaud, 1992.

COMBINATION OF O'HARA & WOOD (2004: 331): Tachina (Rhachogaster) oligoria Arnaud, 1992.

PRESENT INTERPRETATION: Tachina latifrons Meigen, 1824 was treated by Bezzi & Stein (1907: 392) as a valid species name in Thryptocera Macquart, 1834 [with genus name attributed to Brauer & Bergenstamm, 1889, in error] and is currently treated as a junior synonym of Goniocera versicolor (Fallén, 1820) (Andersen 1996: 49). It is not a senior homonym of latifrons Tothill, 1924 because the two names are not (and have never been) treated together in the genus Tachina Meigen, 1803.

CURRENT STATUS: Tachina (Rhachogaster) latifrons (Tothill, 1924). Status revived.

SYNONYMY: Tachina oligoria Arnaud, 1992: 167 (unnecessary nomen novum for Fabriciella latifrons Tothill, 1924). New synonymy.

DISTRIBUTION: Northwest Territories [& Nunavut] and British Columbia, south to Colorado and Kansas, east to Manitoba and Michigan (O'Hara & Wood 2004: 331).

#### 4. nitida van der Wulp, 1882: 82, Jurinia.

NEW COMBINATION OF SABROSKY & ARNAUD (1965: 996): Nowickia (Rhachogaster) nitida (van der Wulp, 1882). NEW COMBINATION OF WOOD (1987: 1244): Tachina nitida (van der Wulp, 1882).

HOMONYMY SENSU ARNAUD (1992: 167): Tachina nitida (van der Wulp, 1882) sensu Wood (1987) was recognized as a junior secondary homonym of Tachina nitida Zetterstedt (1838: 646). Sabrosky & Arnaud (1965: 996) had listed one junior synonym of nitida van der Wulp, Upodemocera robinsoni Townsend, 1915. Arnaud (1992: 167) replaced the invalid name nitida van der Wulp with the name of the junior synonym, with the valid name becoming Tachina robinsoni (Townsend, 1915).

COMBINATION OF O'HARA & WOOD (1998: 766-767): Tachina robinsoni (Townsend, 1915).

COMBINATION OF O'HARA & WOOD (2004: 331): Tachina (Rhachogaster) robinsoni (Townsend, 1915).

PRESENT INTERPRETATION: Tachina nitida Zetterstedt, 1838 was treated by Bezzi & Stein (1907: 405) as a junior synonym of Macquartia chalconota (Meigen, 1824) and by Herting & Dely-Draskovits (1993: 314) as a junior synonym of Macquartia tenebricosa (Meigen, 1824). It is not a senior homonym of nitida van der Wulp, 1882 because the two names are not (and have never been) treated together in the genus Tachina Meigen, 1803.

CURRENT STATUS: Tachina (Rhachogaster) nitida (van der Wulp, 1882). Status revived.

SYNONYMY: Upodemocera robinsoni Townsend, 1915: 229.

DISTRIBUTION: British Columbia to California, east to Ontario and Massachusetts (O'Hara & Wood 2004: 331).

#### 5. pilosa Tothill, 1924: 263, Fabriciella.

NEW COMBINATION OF SABROSKY & ARNAUD (1965: 995): Nowickia (Nowickia) pilosa (Tothill, 1924).

NEW COMBINATION OF WOOD (1987: 1244): Tachina pilosa (Tothill, 1924).

HOMONYMY SENSU ARNAUD (1994: 208): Tachina pilosa (Tothill, 1924) sensu Wood (1987) was recognized as a junior secondary homonym of two names, Servillia pilosa Robineau-Desvoidy (1830: 50) and Tachina pilosa Walker (1853: 266). In the absence of a junior synonym to replace the name pilosa Tothill, the new name Tachina garretti Arnaud, 1994 was proposed.

COMBINATION OF O'HARA & WOOD (1998: 766-767): Tachina garretti Arnaud, 1994.

COMBINATION OF O'HARA & WOOD (2004: 327): Tachina (Nowickia) garretti Arnaud, 1994.

PRESENT INTERPRETATION: Servillia pilosa Robineau-Desvoidy, 1830 was treated by Bezzi & Stein (1907: 191) as a junior synonym of Servillia ursina (Meigen, 1824). It has maintained this synonymy to the present day but the valid species name was recognized as Tachina (Servillia) ursina Meigen by Herting & Dely-Draskovits (1993: 269) and is currently recognized as Tachina (Tachina) ursina Meigen (O'Hara et al. 2009: 180). Since pilosa Robineau-Desvoidy, 1830 and pilosa Tothill, 1924 are both currently in Tachina, the latter is a junior secondary homonym of the former. Arnaud (1994: 208) was justified in proposing a replacement name for pilosa Tothill, 1924.

Tachina pilosa Walker, 1853 is currently a valid species name in the genus Archytas Jaennicke, 1867, as Archytas pilosus (Walker). It is not a senior homonym of pilosa Tothill, 1924 because the two names are not (and have never been) treated together in the genus Tachina Meigen, 1803.

CURRENT STATUS: Tachina (Nowickia) garretti Arnaud, 1994.

SYNONYMY: Fabriciella pilosa Tothill, 1924: 263 (invalid, junior secondary homonym of Servillia pilosa Robineau-Desvoidy, 1830 [not also a junior secondary homonym of *Tachina pilosa* Walker, 1853 as reported by Arnaud,

DISTRIBUTION: Alaska and Yukon, south to Oregon and New Mexico, east to New Brunswick and New Hampshire (O'Hara & Wood 2004: 327).

#### 6. spinosa Tothill, 1924: 263, Fabriciella.

NEW COMBINATION OF SABROSKY & ARNAUD (1965: 994): Nowickia (Echinomyodes) spinosa (Tothill, 1924).

NEW COMBINATION OF WOOD (1987: 1244): Tachina spinosa (Tothill, 1924).

HOMONYMY SENSU ARNAUD (1992: 167): Tachina spinosa (Tothill, 1924) sensu Wood (1987) was recognized as a junior secondary homonym of Tachina spinosa Zetterstedt (1838: 648). In the absence of a junior synonym to replace the name spinosa Tothill, the new name Tachina nearctica Arnaud, 1992 was proposed.

COMBINATION OF O'HARA & WOOD (1998: 766-767): Tachina nearctica Arnaud, 1992.

COMBINATION OF O'HARA & WOOD (2004: 329): Tachina (Nowickia) nearctica Arnaud, 1992.

PRESENT INTERPRETATION: Tachina spinosa Zetterstedt, 1838 was treated by Bezzi & Stein (1907: 424) as a junior synonym of Rhynchista prolixa (Meigen, 1824). This synonymy is still recognized but the valid name is now Eriothrix prolixa (Meigen) (Herting & Dely-Draskovits 1993: 372). It is not a senior homonym of spinosa Tothill, 1924 because the two names are not (and have never been) treated together in the genus Tachina Meigen, 1803.

CURRENT STATUS: Tachina (Nowickia) spinosa (Tothill, 1924). Status revived.

SYNONYMY: Tachina nearctica Arnaud, 1992: 167 (unnecessary nomen novum for Fabriciella spinosa Tothill, 1924). New synonymy.

DISTRIBUTION: British Columbia to Colorado, south to California and Arizona (O'Hara & Wood 2004: 329).

# Closing Remarks

ow did five of the names above get misinterpreted as junior secondary homonyms, passing through peer I review and publication, and go unnoticed until now? One possible contributing factor was the timing of the two Arnaud papers: 1992 and 1994. Scientific publications were available only in hardcopy at the time. It was not as easy then as it is now to trace names through multiple, often old, sources. Reviewers may also have relied too much on the author to check that his nomenclatural actions were correct. It seems likely that the author was confused about junior homonyms and thought a species-group name proposed in the genus Tachina and subsequently moved elsewhere would forever be a senior homonym of another species name with the same spelling that was moved into Tachina later. This is not the case and two names of the same spelling must be in the same genus at the same time to be homonyms in the sense of the Code.

I myself fall into the category of people guilty of following the changes of Arnaud (1992, 1994) and not checking the "back story" more thoroughly. Both O'Hara & Wood (1998) and O'Hara & Wood (2004) had the opportunity to uncover the errors revealed above but instead accepted the names as proposed. Finally, after all these years, the correct valid names for these species can be used again and the proper authors are once more credited with the discovery and description of the species.

# Acknowledgements

I am thankful for the review of this article by Neal Evenhuis (Bishop Museum, Honolulu). His suggestions have led to improvements in the technical wording used herein (such as using the term "new synonymy" sensu Evenhuis et al. (2010) for objective synonyms being treated for the first time as invalid), and in the explanations about name changes.

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