



The status of Mesnil's 1949 *Die Fliegen* genus-group names (Diptera: Tachinidae)

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The proposal of 14 genus-group names in Tachinidae by Mesnil in his 1949 *Lieferung* of *Die Fliegen der palaearktischen Region* are researched to determine their validity and the first validation of each name. Three of these, *Paradrino* Mesnil, *Pimelimyia* Mesnil, and *Tamaromyia* Mesnil, previously thought to be unavailable in that work are found here to be valid by type fixation by monotypy.

Louis P. Mesnil was a prolific taxonomist who published more than 90 articles on the Tachinidae between the years 1936 and 1980 (O'Hara 1996). During the course of his long career he proposed 838 new species-group names and erected 172 new genus-group names (O'Hara 1996). Mesnil published extensively on the tachinid faunas of the Palaearctic, Oriental, and Afrotropical Regions but is best known for his career-long contributions to Lindner's series *Die Fliegen der palaearktischen Region* (1944–1980).

Die Fliegen der palaearktischen Region was originally published in *Lieferungen* (fascicles) of arbitrary length, often consisting of a portion of an author's submitted manuscript. In some instances the names of new taxa were published in a key in one *Lieferung* and the descriptions appeared in subsequent *Lieferungen*. This created nomenclatural havoc and later taxonomists were faced with the difficult task of sorting out the validity and dating of new taxa proposed within a series of *Lieferungen*. O'Hara (1996) attempted to standardize the nomenclatural aspects of Mesnil's taxa published in *Die Fliegen*, but overlooked the validation of three generic names in Mesnil (1949a) as reviewed below.

Genus-group names proposed after 1930 are unavailable if they did not have a type species fixation (whether by original designation or monotypy). Mesnil (1949a) provided a key in *Die Fliegen* to the genus-group taxa of the "Sturmiina" (part of present-day Goniini in the Exoristinae) and included 14 new genus-group names, many of them representing taxa found only outside the Palaearctic Region. These 14 new genus-group names are researched here to determine their earliest validation and present status. Three of them, *Paradrino*, *Pimelimyia* and *Tamaromyia*, which were provided with characters to differentiate them in the key, were previously thought to be unavailable because no species were included until subsequent *Lieferungen* of the *Die Fliegen* series (e.g., O'Hara 1996). However, for each, a single species has been found in combination with the genus-group name in that *Lieferung*, thus fixing the type species by monotypy for each and validating the name from that work.

Format. For each genus-group name proposed in Mesnil (1949a), its authorship, date, page, and nomenclatural status (unavailable or available) is given and tracked through subsequent publications to determine the earliest type fixation (by original designation or monotypy) for the name. Its current taxonomic status (valid or invalid) is also given along with the most recent source for that status. Names in the genus-group headings listed in boldface are taxonomically valid; those in italics are taxonomically invalid.

Mesnil's 1949 *Die Fliegen* genus-group names

Blepharellina

Blepharellina Mesnil, 1949a: 104. Unavailable; mentioned in key with characters to differentiate it but no included species.

Blepharellina Mesnil, 1950: 105 (as subgenus of *Blepharella* Macquart). Unavailable; keyed out but no included species.

Blepharellina Mesnil, 1952: 234 (as subgenus of *Blepharella* Macquart). Type species: *Blepharella picta* Mesnil, 1952, by monotypy.

Current status: Available from Mesnil (1952) [valid *teste* Crosskey (1980: 876)].

Eocatagonia

Eocatagonia Mesnil, 1949a: 103 (as subgenus of *Sisyropa* Brauer & Bergenstamm). Unavailable; keyed out but no included species.

Eocatagonia Mesnil, 1950: 148 (as subgenus of *Sisyropa* Brauer & Bergenstamm). Type species: *Sisyropa argyrata* Mesnil, 1950, by monotypy.

Current status: Available from Mesnil (1950); invalid, junior synonym of *Sisyropa* Brauer & Bergenstamm, 1889 [*teste* Crosskey (1980: 873)].

Hygia

Hygia Mesnil, 1949a: 104. Unavailable; keyed out but no included species.

Hygia Mesnil, 1952: 222. Type species: *Blepharipoda eutachinoides* Baranov, 1932, by original designation. [Preoccupied by *Hygia* Uhler, 1861.]

Current status: Available from Mesnil (1952); invalid, junior synonym of *Chaetexorista* Brauer & Bergenstamm, 1895 [*teste* Herting & Dely-Draskovits (1993: 134)].

Igneomyia

Igneomyia Mesnil, 1949a: 103 (as subgenus of *Congochrysosoma* Townsend). Unavailable; keyed out but no included species.

Igneomyia Mesnil, 1950: 105, 108 (as subgenus of *Congochrysosoma* Townsend). Type species: *Pexopsis ignea* Mesnil, 1944, by monotypy.

Current status: Available from Mesnil (1950) [valid *teste* Crosskey (1980: 870)].

Koralliomyia

Koralliomyia Mesnil, 1949a: 101. Unavailable; keyed out but no included species.

Koralliomyia Mesnil, 1950: 114. Type species: *Koralliomyia portentosa* Mesnil, 1950, by original designation.

Current status: Available from Mesnil (1950) [valid *teste* Cantrell & Crosskey (1989: 775)].

Remarks: Mesnil (1950: 114) misspelled the name in his citation of the type species, writing “Genotypus: *Karalliomyia portentosa* sp. n.”

Mycteromyia

Mycteromyia Mesnil, 1949a: 102. Unavailable; keyed out but no included species.

Mycteromyia Mesnil, 1950: 107. Type species: *Mycteromyia laetifica* Mesnil, 1950, by monotypy. [Preoccupied by *Mycteromyia* Philippi, 1865.]

Current status: Available from Mesnil (1950); invalid, replaced by *Mycteromyiella* Mesnil, 1966 [*teste* Herting & Dely-Draskovits (1993: 177)].

Paradrino

Paradrino Mesnil, 1949a: 103 (as subgenus of *Drino* Robineau-Desvoidy). Type species: *Sturmia halli* Curran, 1939 (as “*Paradrino Halli* Curr.”), by monotypy.

Paradrino Mesnil, 1949b: 8, 35 (as subgenus of *Drino* Robineau-Desvoidy). Type species: *Sturmia halli* Curran, 1939, by monotypy.

Current status: Available from Mesnil (1949a) [valid *teste* Crosskey (1980: 872), but at that time dated from Mesnil (1949b)].

Remarks. *Paradrino* was previously thought to be unavailable from its listing in the key in Mesnil (1949a) because it did not have an included species or a type species fixation (Crosskey 1980: 872; O’Hara 1996: 127). Although there is not an included species where the genus-group name is mentioned in the key (p. 103), there is a single species (*halli* Curran) mentioned in combination with the genus-group name on p. 100, and thus the type species is fixed in Mesnil (1949a) by monotypy.

Paragonia

Paragonia Mesnil, 1949a: 100. Unavailable; keyed out but no included species.

Paragonia Mesnil, 1950: 106. Type species: *Paragonia portentosa* Mesnil, 1950, by monotypy. [Preoccupied by *Paragonia* Hübner, 1823.]

Current status: Available from Mesnil (1950); invalid, replaced by *Mesnilius* Özdikmen, 2006.

Parapales

Parapales Mesnil, 1949a: 102 (as subgenus of *Ctenophorocera* Brauer & Bergenstamm). Unavailable; keyed out but no included species.

Parapales Mesnil, 1950: 122 (as subgenus of *Ctenophorocera* Brauer & Bergenstamm). Type species: *Ctenophorocera pallidula* Mesnil, 1950, by original designation.

Current status: Available from Mesnil (1950) [valid *teste* Crosskey (1980: 872)].

Perlucidina

Perlucidina Mesnil, 1949a: 104 (as subgenus of *Tamaromyia* Mesnil). Unavailable; keyed out but no included species.

Perlucidina Mesnil, 1952: 223 (as subgenus of *Hygia* Mesnil). Type species: *Exorista perlucida* Karsch, 1886, by monotypy.

Current status: Available from Mesnil (1952); invalid, junior synonym of *Calozenillia* Townsend, 1927 [*teste* Crosskey (1980: 869)].

Pimelimyia

Pimelimyia Mesnil, 1949a: 104. Type species: *Sturmia russata* Villeneuve, 1934, by monotypy.

Pimelimyia Mesnil, 1950: 108. Type species: *Sturmia semitestacea* Villeneuve, 1916, by original designation.

Current status: Available from Mesnil (1949a) [valid *teste* Crosskey (1980: 873), but at that time dated from Mesnil (1950)].

Remarks. *Pimelimyia* was previously thought to be unavailable from its listing in the key in Mesnil (1949a) because it did not have an included species or a type species fixation (Crosskey 1980: 873; O'Hara 1996: 127). Although there is not an included species where the genus-group name is mentioned in the key (p. 104), there is a single species (*russata* Villeneuve) mentioned in combination with the genus-group name on p. 103, and thus the type species is fixed in Mesnil (1949a) by monotypy. Even though the type species in Mesnil (1949a; *russata* Villeneuve) is different than that in Mesnil (1950; *semitestacea* Villeneuve), both are currently considered members of *Pimelimyia*, so there is no change in taxonomy of the genus-group name.

Poujadea

Poujadea Mesnil, 1949a: 102. Unavailable; keyed out but no included species.

Poujadea Mesnil, 1950: 108. Type species: *Zenillia insolita* Curran, 1927, by monotypy.

Current status: Available from Mesnil (1950); invalid, junior synonym of *Sisyropa* Brauer & Bergenstamm, 1889 [*teste* Crosskey (1980: 873)].

Prosturmina

Prosturmina Mesnil, 1949a: 103 (as subgenus of *Drino* Robineau-Desvoidy). Unavailable; keyed out but no included species.

Prosturmina Mesnil, 1949b: 8, 32 (as subgenus of *Drino* Robineau-Desvoidy). Unavailable; genus-group name proposed after 1930 without type designation from three included species.

Prosturmina Mesnil, 1951: 161 (as subgenus of *Drino* Robineau-Desvoidy). Unavailable; genus-group name proposed after 1930 without type designation or included species.

Prosturmina Mesnil, 1970: 111 (subgenus of *Drino* Robineau-Desvoidy). Type species: *Sturmia vigilans* Villeneuve, 1933, by original designation.

Current status: Available from Mesnil (1970); invalid, junior synonym of *Palexorista* Townsend, 1921 [*teste* Crosskey (1980: 871)].

Tamaromyia

Tamaromyia Mesnil, 1949a: 104. Type species: *Exorista tamara* Portschiński, 1884 (as “*Tamaromyia tamara* Portschiński.”), by monotypy.

Tamaromyia Mesnil, 1952: 226. Type species: *Exorista tamara* Portschiński, 1884, by original designation.

Current status: Available from Mesnil (1949a); invalid, junior synonym of *Calozenillia* Townsend, 1927 [*teste* Crosskey (1980: 869)].

Remarks. *Tamaromyia* was previously thought to be unavailable from its listing in the key in Mesnil (1949a) because it did not have an included species or a type species fixation (Crosskey 1980: 869; O'Hara 1996: 129). Although there is not an included species where the genus-group name is mentioned in the key (p. 104), there is a single species (*tamara* Portschiński) mentioned in combination with the genus-group name on p. 103, and thus the type species is fixed in Mesnil (1949a) by monotypy.

References

- Cantrell, B.K. & Crosskey, R.W. (1989) 113. Family Tachinidae. In: Evenhuis, N.L. (Ed.), A catalog of the Diptera of the Australasian and Oceanian Regions. *Bishop Museum Special Publication*, 86, 733–784. [23 August] [Publication date based on information from publisher.]
- Crosskey, R.W. (1980) 93. Family Tachinidae. In: Crosskey, R.W. (Ed.), *Catalogue of the Diptera of the Afrotropical*

- Region*. British Museum (Natural History), London, pp. 822–882. [10 July]
[Date of receipt at BMNH library.]
- Evenhuis, N.L. (1997) *Litteratura • Taxonomica • Dipteroorum (1758-1930)*. Being a selected list of the books and prints of Diptera taxonomy from the beginning of Linnaean zoological nomenclature to the end of the year 1930; containing information on the biographies, bibliographies, types, collections, and patronymic genera of the authors listed in this work; including detailed information on publication dates, original and subsequent editions, and other ancillary data concerning the publications listed herein. 2 volumes. Backhuys Publishers, Leiden. 871 pp. [10 October]
[Publication date based on information from publisher.]
- Herting, B. & Dely-Draskovits, Á. (1993) Family Tachinidae. In: Sóos, Á. & Papp, L. (Eds.), *Catalogue of Palaearctic Diptera*. Volume 13. Anthomyiidae—Tachinidae. Hungarian Natural History Museum, Budapest, pp. 118–458. [13 December]
- Mesnil, L.P. (1949a) Larvaevorinae (Tachininae). *Die Fliegen der Palaearktischen Region*, 64g, 49–104. [25 October]
[For dating, see Evenhuis (1997).]
- Mesnil, L.P. (1949b) Essai de révision des espèces du genre *Drino* Robineau-Desvoidy Sturmiinae a oeufs macrotypes. *Bulletin de l'Institut Royal des Sciences Naturelles de Belgique*, 25(42), 1–38. [December]
- Mesnil, L.P. (1950) Larvaevorinae (Tachininae). *Die Fliegen der Palaearktischen Region*, 64g, 105–160 + pls. VI–VII. [12 June]
- Mesnil, L.P. (1951) Larvaevorinae (Tachininae). *Die Fliegen der Palaearktischen Region*, 64g, 161–208 + pls. III–V. [26 July]
[For dating, see Evenhuis (1997).]
- Mesnil, L.P. (1952) Larvaevorinae (Tachininae). *Die Fliegen der Palaearktischen Region*, 64g, 209–256 + pls. VIII–IX. [25 June]
[For dating, see Evenhuis (1997).]
- Mesnil, L.P. (1970) Description de nouveaux tachinaires de l'Ancien Monde, et notes synonymiques (Diptera, Tachinidae). *Mushi*, 44, 89–123. [15 December]
- O'Hara, J.E. (1996) The tachinid taxa of Louis P. Mesnil, with notes on nomenclature (Insecta: Diptera). *The Canadian Entomologist*, 128, 115–165. [February]