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10. THE SPECIES DESCRIBED BY CARL EDUARD ADOLPH GERSTAECKER

Carl Eduard Adolph Gerstaecker died on July 20, 1895 at Greifswald, at the age of 67. He was educated for the medical profession and took his degree, but devoted himself to zoology, especially to entomology. For many years he was keeper of the entomological department of the Berlin Natural History Museum and also a professor of zoology at the University of Berlin. About the year 1876, differences with the then director of the Berlin Museum induced him to resign his appointment in Berlin, and he subsequently accepted the professorship of Zoology at Greifswald, which he held until his death. Gerstaecker was an industrious and thorough worker in all departments of entomology. Among his principal works may be noted the "Arthropoda" in the "Handbuch der Zoologie" (1863) and the same phylum in Bronn's "Klassen und Ordnungen der Tierreichs".

Gerstaecker rendered infinite help to his fellow students by compiling the entomological portions of the German "Bericht" (the forerunner and subsequent contemporary of the English "Zoological Record") from the year 1853 to the year 1867.

Among Gerstaecker's publications are those dealing with the Acroceridae (1856), Stratiomyidae (1857), Acalyptratae (1860), parasitic flies (1868a), and his most important paper, the revision of the Mydidae (1868b).

Gerstaecker studied the Diptera contained in the ancient collection of Tönder Lund in Copenhagen, and that of Westermann in the Vienna Museum. Many of his more recent specimens were collected by Natterer in Brazil (*cf.* Papavero, 1971b: 80-87), Lacordaire (*ibid.*, p. 133) in French Guiana, Deppe (*ibid.*, pp. 103-107; part 1 of the present work) in Mexico, Olfers (*cf.* Papavero, 1971b: 69) in Brazil, Burmeister (*ibid.*, pp. 292-293) in Brazil, Koeppen in Mexico, Moritz (*ibid.*, pp. 297-298) in Colombia and the West Indies, Virmond (*ibid.*, pp. 110, 112) in Brazil, Appun (*ibid.*, p. 291) in Colombia, Ehrenberg and Uhde in Mexico. He also studied the collections organized by Bescke in Brazil (*cf.* Papavero, 1971b: 87) belonging to the coleopterist Germar.

About Koeppen and Uhde (or Uhle) nothing is known.

Carl August Ehrenberg was born in Delitsch, Province of Sachsen, Prussia, on August 24, 1801, son of the "Stadtrat und Stadtritter" Johann Gottfried Ehrenberg. Carl dedicated himself to commerce (Kauffmannstande) and travelled through St. Thomas (1827-1828), Port-au-Prince in Haiti (March 1828-June 1831) and Mexico (July 1831- April 1840), both near the Capital and 30 leagues to the interior (Mineral

Real del Monte). From all those places he sent to the Museums of Berlin and Halle rich zoological and botanical collections. In Mexico he became especially interested in the Cactaceae. Upon his return to Berlin he entered business with his brother Ferdinand. He died there on August 13, 1849, of cholera (Urban, 1903, p. 43; see also Barnhart, 1965; Hemsley, 1887; Knobloch, 1893; Lorence & García, 1989; McVaugh, 1972; Papavero, 1973; Pennell, 1945; Stafleu & Cowan, 1976 (1: 727); Urban, 1897).

Only 8 species were described by Gerstaecker from Mexico:

1857:

1. *Cyphomyia varipes*, p. 283 (&). "Mexico, Costa Rica, ?Venezuela". Types in Vienna Museum. Unchanged (James, 1973: 28) (Stratiomyidae).
2. *Cyphomyia pilosissima*, p. 293 (%). "Mexico (Koeppen)". Type in Vienna Museum. Unchanged (James, 1973: 28) (Stratiomyidae).
3. *Cyphomyia tomentosa*, p. 294 (&). "Mexico (Koeppen)". Type ?. Unchanged (James, 1973: 46) (Stratiomyidae).
4. *Stratiomys fenestrata*, p. 327 (&). "Mexico (Deppe)". Type ?Berlin. Unchanged (James, 1973: 46) (Stratiomyidae).
5. *Stratiomys euchlorus*, p. 328 (% &). "Mexico (Deppe)". Types ?Berlin. Now *Hedriodiscus euchlorus* (Gerstaecker) (James, 1973: 40) (Stratiomyidae).

1860:

6. *Diacrita costalis*, p. 197, pl. II, figs. 10, 10a. "Mexico, Oaxaca (Deppe)". Type ?Berlin. Unchanged (Steyskal, 1968b: 4) (Otitidae).

1868b:

7. *Mydas lavatus*, p. 96 (% &). "Mexico (Koeppen)". Types Berlin. Now a junior synonym of *Mydas xanthopterus* Loew, 1866 (Papavero, 1996: 631) (Mydidae).
8. *Mydas annularis*, p. 100 (&). "Mexico (Ehrenberg)". Type Berlin. Unchanged (Papavero, 1996: 630) (Mydidae).

11. THE SPECIES DESCRIBED BY JACQUES MARIE FRANGILLE BIGOT

Unfortunately, very little is known about the life of the French dipterist Jacques Marie Frangille Bigot (Fig. 7). He was born in 1818, in 1844 was elected fellow of the "*Société Entomologique de France*", and seems to have been a very wealthy person, who could buy large collections of exotic flies, having amassed a very important collection of Diptera.



Figure 7

Jacques Marie Frangille Bigot. Photograph property of N. Papavero.

Bigot published two large series of papers, the "*Essai d'une classification générale et synoptique de l'Ordre des Insectes Diptères*", and the "*Diptères nouveaux ou peu connus*".

In relation to the former series, Baron Osten Sacken makes the following comments (1904: 232-233; 1978 (reprint): 232-233):

It remains for me now to reproduce the opinion expressed by Mr. Bigot himself, at different times, about his own publications:

In the Annales etc. 1885, p. 225, he said: "J'avais autrefois (Ann. etc. 1852-1859) commencé la publication d'un travail intitulé: Essai d'une classification générale et synoptique de l'Ordre des Insectes Diptères etc. Cette oeuvre fut alors sévèrement et doctoralement critiquée dans le Bericht de Gerstaecker (Berlin) par l'habile diptériste H. Loew. Je dois confesser que la plupart de ses objections m'ont paru tellement fondées que, reconnaissant la médiocre valeur de mes Essais, je me résigne à les abandonner à mi-chemin". Whereupon Mr. Bigot proposes a new plan for the distribution of the Diptera, into two tribes: Omalocerati and Anomalocerati etc.

A further discussion between Bigot and G. H. Verrall, about questions of orthography and of mutual courtesy will be found in the Wien. Ent. Zeitschr., 1889, p. 168, 265 and 293. In the latter notice, Bigot renews his former recantation of his "Essai": "Si Mr. Verrall avait daigné lire mes opuscules, etc. il y aurait vu, maintes fois répété, que mon ancien travail, intitulé "Essai" etc. devait être désormais, et dans son entier, considéré comme nul et non avenu, déclaration qui m'absolue absolument des fautes que j'ai pu y commettre".

Regarding the series "*Diptères nouveaux ou peu connus*", Aldrich (1905: ii) points out that:

Bigot's main work (...) is in the form of a long series of articles in the *Annales Soc. ent. France* (...) interspersed chronologically with fragments in the *Bulletin* of the same society. Owing to Bigot's peculiar, complicated and inconsistent system of numbering his contributions, it has been almost impossible for me to find them all, but I believe I have succeeded (...). Sometimes his Roman numerals stop and remain the same for several papers, then again the numbering in "parts" becomes stationary while the other goes on, and in two cases two papers have both the same.

Bigot started publishing in 1852 and the last of his papers that interest us is dated from 1892. He also studied the Diptera collected by Ramón de la Sagra in Cuba (1857a), and those collected by the "*Mission Scientifique du Cap Horn*" (1888a).

Osten Sacken (1904: 232; 1978: 232) comments further, on Bigot's work:

My excellent friend J. M. F. Bigot died April 14 1893 at his country-seat near Paris at the age of 74 years (An Obituary Notice will be found in the Bulletin de la Soc. Ent. de France, April 26 1893). My acquaintance with Bigot was of long date. When I met

*him again after my return from the United States in 1887, and our relations were renewed, I felt it my duty, although treating him as a friend, to tell him the truth about his publications. I did so, during one of my visits to Paris (the year I do not remember), in telling him that he was doing a useful work in forming a large collection, especially of exotic Diptera; but that he should renounce descriptive work, for which he was not competent. I expressed my opinion in the strongest terms, concluding with the words: "If **all** your publications could be suppressed, it would be a gain for science". He winced a little, but resumed immediately his serene expression, and said: "Eh bien, cela m'amuse". My frankness did not prevent us from remaining friends up to his death. In the most generous manner, he kept his rich collection and library at my disposal. Even when he was away from Paris (he usually spent his winters in Algiers) he left orders to his housekeeper to admit me at any time into his sanctum, and to light a fire for me in winter. I keep of my friend Bigot and his family (wife and daughter) a pleasant and grateful recollection.*

The great collection of flies gathered by Bigot, including many types, especially of exotic flies, and many types described by Macquart (see part 2 of this work), were bought after his death by G. H. Verrall, and are now deposited at the Hope Department of Entomology, Oxford University (most of the types), some of them also at the British Museum of Natural History. Osten Sacken (l. c.) had an important role in that transaction:

The share I had in the sale of Bigot's collection is explained in the Bulletin de la Soc. Ent. de France, June 14, 1893. In this notice it should have been added that I had written to the Authorities of the Museum in Paris, urging them to purchase this important collection offered at a very moderate price (6000 francs). My advice, however, was not heeded, and the collection passed into the hands of Mr. G. H. Verrall of Newmarket, England, and will ultimately, as I understand, find its place in the British Museum.

Although he never cites the names of the collectors, it is very probable that Bigot studied the collections gathered in Mexico by Pilate, Geisbreght, Linden, and Funck (see part 2 of this work), as well as the material collected by Sallé, Sumichrast, Saussure, and Boucard (see part 6 of this work).

Bigot described the following Mexican flies:

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1875a:

1. *Emphysomera pilosula*, p. 243 (%). "Mexico". Type in Oxford. Now *Ommatius pilosulus* (Bigot) (Martin & Papavero, 1970: 59) (Asilidae).
2. *Emphysomera bicolor*, p. 244 (% &). "Mexico". Type in Oxford. Now in *Ommatius* (Martin & Papavero, 1970: 59) (Asilidae).
3. *Ommatius parvus*, p. 247 (%). "Mexico". Type in Oxford. Unchanged (Martin & Papavero, 1970: 59) (Asilidae).

1875b:

4. *Volucella castanea*, p. 476 (%). "Mexico, Oaxaca". Type in Oxford. Now a junior synonym of *Copestylum posticum* (Say, 1830) (Thompson *et al.*, 1976: 82) (Syrphidae).
5. *Volucella tricineta*, p. 477 (&). "Mexico, Oaxaca". Type in Oxford. Now *Copestylum tricinctum* (Bigot) (Thompson *et al.*, 1976: 85) (Syrphidae).
6. *Volucella purpurifera*, p. 477 (% &). "Mexico, Oaxaca". Type in Oxford. Now *Copestylum purpuriferum* (Bigot) (Thompson *et al.*, 1976: 82) (Syrphidae).
7. *Volucella variegata*, p. 478 (% &). "Mexico". Types in Oxford. Now *Copestylum variegatum* (Bigot) (Thompson *et al.*, 1976: 86) (Syrphidae).
8. *Volucella amethystina*, p. 479 (%). "Mexico". Type in Oxford. Now *Copestylum amethystinum* (Bigot) (Thompson *et al.*, 1976: 71) (Syrphidae).
9. *Volucella nigrifacies*, p. 479 (%). "Mexico". Type in BMNH. Now in *Copestylum* (Thompson *et al.*, 1976: 80) (Syrphidae).
10. *Volucella pulchripes*, p. 480 (%). "Mexico". Type in Oxford. Now in *Copestylum* (Thompson *et al.*, 1976: 82) (Syrphidae).
11. *Volucella varians*, p. 481 (&). "Mexico". Type in Oxford. Now in *Copestylum* (Thompson *et al.*, 1976: 86) (Syrphidae).
12. *Volucella viridula*, p. 481 (&). "Mexico". Type in Oxford. Now a synonym of *Copestylum vagum* (Wiedemann, 1830) (Thompson *et al.*, 1976: 86) (Syrphidae).
13. *Volucella tristis*, p. 482 (&). "Mexico". Type in Oxford. Now a junior synonym of *Copestylum subrostratum* (Rondani, 1848) (Thompson *et al.*, 1976: 85) (Syrphidae).

1875c:

14. *Cyphomyia scalaris*, p. 487 (% &). "Mexico". Unchanged (James, 1973: 27) (Stratiomyidae).

1876a:

15. *Trichopoda nigricauda*, p. 395 (%). "Mexico". Now *Trichopoda (Trichopoda) nigricauda* Bigot (Guimarães, 1971: 9) (Tachinidae).

1877b:

16. *Somomya pallidibasis*, p. 247 (&). "Mexico". Now *Phaenicia (Phaenicia) purpurescens* (Walker, 1837) (James, 1970: 11) (Calliphoridae).
17. *Somomya mutabilis*, p. 248 (% &). "Mexico". Now *Phaenicia (Phaenicia) eximia* (Wiedemann, 1819) (James, 1970: 10) (Calliphoridae).
18. *Somomya flavigena*, p. 249 (&). "Mexico". Now *Cochliomyia macellaria* (Fabricius, 1775) (James, 1970: 7) (Calliphoridae).

19. *Somomya callipes*, p. 249 (%). "Mexico". Now *Myiolucilia lyrcea* (Walker, 1849) (James, 1970: 8) (Calliphoridae).
20. *Somomya pueblensis*, p. 250 (&). "Mexico". Now *Phaenicia (Phaenicia) eximia* (Wiedemann, 1819) (James, 1970: 10) (Calliphoridae).
21. *Somomya fulvinota*, p. 251 (&). "Mexico". Now in *Myiolucilia* (James, 1970: 7) (Calliphoridae).
22. *Somomya argentifera*, p. 251 (?%). Not cited in James's 1970 catalogue (Calliphoridae).
23. *Somomya aztequina*, p. 252 (% &). "Mexico". Now *Cochliomyia macellaria* (Fabricius, 1775) (James, 1970: 7) (Calliphoridae).

1877c:

24. *Carlottaemyia moerens*, p. xxvii (% &). "Mexico". Now *Diacrita costalis* Gerstaecker, 1860) (Steyskal, 1968b: 4) (Otitidae).

1878a:

25. *Pyrellia scapulata*, p. 35 (% &). "Mexico". Now *Morellia basalis* (Walker, 1852) (Pont, 1972: 8) (Muscidae).
26. *Pyrellia iris*, p. 36 (&). "Mexico". Now *Morellia flavicornis* (Macquart, 1848) (Pont, 1972: 9) (Muscidae).

1878b:

27. *Ocyptera soror*, p. 46 (&). "Mexico". An unrecognized *Cylindromyia* (Guimarães, 1971: 16) (Tachinidae).
28. *Ocyptera simplex*, p. 47 (&). "Mexico". An unrecognized *Cylindromyia* (Guimarães, 1971: 16) (Tachinidae).

1878d:

29. *Pogonosoma arachnoides*, p. 227 (&). "Mexico". Type in Oxford. Now in *Andrenosoma (Pogonosoma)* (Martin & Papavero, 1970: 44) (Asilidae).
30. *Cormansis eupoda*, p. 234 (?&). "Mexico". Type in Oxford. Now in *Atomosia* (Martin & Papavero, 1970: 47) (Asilidae).
31. *Aphestia nigra*, p. 235 (% &). "Mexico". Type in Oxford. Unchanged (Martin & Papavero, 1970: 50) (Asilidae).
32. *Atomosia soror*, p. 236 (% &). "Mexico". Type in Oxford. Now *Atomosia rufipes* Macquart, 1847 (Martin & Papavero, 1970: 47) (Asilidae).
33. *Cerotainia? nigra*, p. 238 (&). "Mexico". Type in Oxford. Unchanged (Martin & Papavero, 1970: 52) (Asilidae).
34. *Cerotainia? dubia*, p. 238 (%). "Mexico". Type in Oxford. Unchanged (Martin & Papavero, 1970: 52) (Asilidae).
35. *Microstylum fulviger*, p. 410 (%). "Mexico". Type in Oxford. Unchanged (Martin & Papavero, 1970: 19) (Asilidae).
36. *Stenopogon fuscolimbatum*, p. 421 (?% &). "Mexico". Type in Oxford. Now *Stenopogon (Stenopogon) fuscolimbatus* Bigot. Unchanged (Martin & Papavero, 1970: 12) (Asilidae).

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37. *Ceraturgus geniculatus*, p. 443 (%). "Mexico (Veracruz)". Type in Oxford. Now in *Taracticus* (Martin & Papavero, 1970: 35) (Asilidae).

1879a:

38. *Macroceromys fulviventris*, p. 187 (&). "Mexico". Now *Solva* (*Macroceromys*) *fulviventris* (Bigot) (James, 1975: 2) (Xylomyidae).

39. *Oplacantha limbata*, p. 196 (&). "Mexico, Veracruz, Orizaba". Unchanged (but *Oplacantha* Rondani) (James, 1973: 8) (Stratiomyidae).

40. *Hermetia nigrifascies*, p. 200 (% &). "Mexico". Now a junior synonym of *Hermetia illucens* (Linnaeus, 1758) (James, 1973: 38) (Stratiomyidae).

41. *Hermetia flavoscutata*, p. 201 (%). "Mexico". Unchanged (James, 1973: 38) (Stratiomyidae).

42. *Histiodroma flaveola*, p. 205 (&). "Mexico". Now *Acrochaeta fasciata* Wiedemann, 1830 (James, 1973: 9) (Stratiomyidae).

43. *Sargus splendens*, p. 224 (&). "Mexico". Now *Sargus speciosus* Macquart, 1846 (James, 1973: 20) (Stratiomyidae).

44. *Macrosargus smaragdiferus*, p. 226 (&). "Mexico". Now in *Merosargus* (James, 1973: 15) (Stratiomyidae).

45. *Chrysonotus flavopilosus*, p. 227 (% &). "Mexico". Now *Himantoloba flavopilosa* (Bigot) (James, 1973: 10) (Stratiomyidae).

46. *Merosargus fraternus*, p. 228 (&). "Mexico". Unchanged (James, 1973: 13) (Stratiomyidae).

47. *Merosargus calceolatus*, p. 229 (&). "Mexico". Unchanged (James, 1973: 12) (Stratiomyidae).

48. *Ptecticus flaviceps*, p. 230 (&). "Mexico". Unchanged (James, 1973: 17) (Stratiomyidae).

1880b:

49. *Eristalomyia rufoscutata*, p. 221 (% &). "Mexico". Types in Oxford. Now *Eristalis* (*Eoseristalis*) *bellardii* Jaennicke, 1867 (Thompson *et al.*, 1976: 101) (Syrphidae).

50. *Eristalis sackenis*, p. 224 (%). "Mexico". Type in BMNH. Now *Palpada testaceicornis* (Macquart, 1850) (Thompson *et al.*, 1976: 110) (Syrphidae).

51. *Eristalomyia pachypoda*, p. 224 (&). "Mexico". Type BMNH. Now *Palpada obsoleta* (Wiedemann, 1830) (Thompson *et al.*, 1976: 107) (Syrphidae).

52. *Eristalomyia fulvipes*, p. 225 (&). "Mexico". Type in BMNH. Now *Palpada fulvipes* (Bigot) (Thompson *et al.*, 1976: 105) (Syrphidae).

1882c:

53. *Eurhinomallota metallica*, p. lxxvii (&). "Mexico". Type in Oxford. Now in *Criorhina* (Thompson *et al.*, 1976: 119) (Syrphidae).

1882e:

54. *Aemosyrphus oculiferus*, p. cxxviii (&). "Mexico". Type in BMNH. Now *Aemosyrphus mexicanus* (Macquart, 1842) (Thompson *et al.*, 1976: 97) (Syrphidae).

55. *Aemosyrphus nigroscutatus*, p. cxxviii (?&). "Mexico". Type BMNH. Now *Aemosyrphus mexicanus* (Macquart, 1842) (Thompson *et al.*, 1976: 97) (Syrphidae).
56. *Aemosyrphus flavocaudatus*, p. cxxviii (?&). "Mexico". Type BMNH. Now *Aemosyrphus mexicanus* (Macquart, 1842) (Thompson *et al.*, 1976: 97) (Syrphidae).
57. *Aemosyrphus bicolor*, p. cxxix (?&). "Mexico". Type BMNH. Now *Aemosyrphus arquatus* (Say, 1829) (Thompson *et al.*, 1976: 96) (Syrphidae).
58. *Romaleosyrphus villosus*, p. cxxix (%). "Mexico". Type BMNH. Now *Criorhina villosa* (Bigot) (Thompson *et al.*, 1976: 119) (Syrphidae).

1883a:

59. *Volucella tau*, p. 84 (&). "Mexico". Type BMNH. Now in *Copestylum* (Thompson *et al.*, 1976: 85) (Syrphidae).
60. *Phalachromyia vicina*, p. 86 (%). "Mexico". Type in BMNH. Now *Copestylum vicinum* (Bigot) (Thompson *et al.*, 1976: 86) (Syrphidae).
61. *Phalachromyia melanorhina*, p. 86 (&). "Mexico". Type in BMNH. Now *Copestylum subrostratum* (Rondani, 1848) (Thompson *et al.*, 1976: 85) (Syrphidae).

1883c:

62. *Sphyximorpha nigra*, p. 317 (% &). "Mexico". Types in BMNH. Now in *Polybiomyia* (Thompson *et al.*, 1976: 95) (Syrphidae).
63. *Sphyximorpha rufibasis*, p. 318 (%). "Mexico". Type in BMNH. Now in *Polybiomyia* (Thompson *et al.*, 1976: 95) (Syrphidae).
64. *Microdon gracile*, p. 320 (%). "Mexico". Type in BMNH. Now *Microdon (Microdon) gracilis* Bigot (Thompson *et al.*, 1976: 65) (Syrphidae).
65. *Ocyptamus infuscatus*, p. 324 (%). "Mexico". Type in BMNH. Unchanged (Thompson *et al.*, 1976: 20) (Syrphidae).
66. *Ocyptamus fraternus*, p. 324 (&). "Mexico". Type ?BMNH. Unchanged (Thompson *et al.*, 1976: 18) (Syrphidae).
67. *Salpingogaster anchoratus*, p. 328 (%). "Mexico". Type in ?BMNH. Now *Salpingogaster (Salpingogaster) nigra* Schiner, 1868 (Thompson *et al.*, 1976: 32) (Syrphidae).
68. *Salpingogaster cothurnatus*, p. 329 (&). "Mexico". Type in ?BMNH. Now *Salpingogaster (Salpingogaster) cothurnata* Bigot (Thompson *et al.*, 1976: 31) (Syrphidae).
69. *Baccha marmorata*, p. 333 (%). "Mexico". Type in BMNH. Now in *Leucopodella* (Thompson *et al.*, 1976: 47) (Syrphidae).
70. *Baccha luctuosa*, p. 334 (%). "Mexico". Type in BMNH. Now *Ocyptamus luctuosus* (Bigot) (Thompson *et al.*, 1976: 21) (Syrphidae).
71. *Lepidomyia cinta*, p. 345 (%). "Mexico". Type in BMNH. Now in *Quichuana* (Thompson *et al.*, 1976: 98) (Syrphidae).
72. *Spilomyia pallipes*, p. 352 (&). "Mexico". Type in BMNH. Now in *Blera* (Thompson *et al.*, 1976: 119) (Syrphidae).

1883d:

73. *Syrirta mexicana*, p. 539 (%). "Mexico". Type in BMNH. Now a junior synonym of *Neplias vagans* (Wiedemann, 1830) (Thompson *et al.*, 1976: 115) (Syrphidae).

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74. *Glaurotricha volucelloides*, p. 548 (%). "Mexico". Type in BMNH. Now in *Copestylum* (Thompson *et al.*, 1976: 87) (Syrphidae).
75. *Cartosyrphus frontosus*, p. 553 (%). "Mexico". Type in BMNH. Now *Cheilosia* (*Cartosyrphus*) *frontosa* (Bigot) (Thompson *et al.*, 1976: 69) (Syrphidae).

1884a:

76. ?*Melanostoma quadrinotata*, p. 77 (%). "Mexico". Type in Oxford. Now *Xanthandrus quadrinotatus* (Bigot) (Thompson *et al.*, 1976: 45) (Syrphidae).
77. ?*Melanostoma cruciata*, p. 81 (%). "Mexico". Type in Oxford. Now *Melanostoma cruciatum* Bigot (Thompson *et al.*, 1976: 42) (Syrphidae).
78. ?*Melanostoma annulifera*, p. 84 (&). "Mexico". Type in Oxford. Now *Toxomerus annulifer* (Bigot) (Thompson *et al.*, 1976: 48) (Syrphidae).
79. *Syrphus eupeltatus*, p. 91 (%). "Mexico". Type in Oxford. Now *Allograpta eupeltata* (Bigot) (Thompson *et al.*, 1976: 34) (Syrphidae).
80. *Syrphus agilis*, p. 92 (&). "Mexico". Type in Oxford. Now in *Ocyptamus* (Thompson *et al.*, 1976: 12) (Syrphidae).
81. *Sphaerophoria rostrata*, p. 102 (&). "Mexico". Type in Oxford. Now in *Allograpta* (Thompson *et al.*, 1976: 37) (Syrphidae).
82. *Sphaerophoria picticauda*, p. 102 (% &). "Mexico". Type in Oxford. Now a junior synonym of *Allograpta micrura* (Osten Sacken, 1877) (Thompson *et al.*, 1976: 36) (Syrphidae).
83. *Sphaerophoria nasuta*, p. 103 (%). "Mexico". Type in Oxford. Now in *Allograpta* (Thompson *et al.*, 1976: 36) (Syrphidae).
84. *Sphaerophoria pachypyga*, p. 104 (%). "Mexico". Type in Oxford. Now a junior synonym of *Sphaerophoria sulphuripes* (Thomson, 1869) (Thompson *et al.*, 1976: 38) (Syrphidae).
85. *Sphaerophoria fulcicauda*, p. 104 (%). "Mexico". Type in Oxford. Now a junior synonym of *Sphaerophoria contigua* (Macquart, 1847) (Thompson *et al.*, 1976: 38) (Syrphidae).
86. ?*Mesograpta saphiridiceps*, p. 105 (&). "Mexico". Type in Oxford. Now in *Toxomerus* (Thompson *et al.*, 1976: 54) (Syrphidae).
87. ?*Mesograpta mu*, p. 105 (&). "Mexico". Type in Oxford. Now in *Allograpta* (Thompson *et al.*, 1976: 36) (Syrphidae).
88. ?*Mesograpta pallipes*, p. 106 (% &). "Mexico". Type in Oxford. Now a junior synonym of *Toxomerus tridentatus* (Rondani, 1868) (Thompson *et al.*, 1976: 55) (Syrphidae).
89. ?*Mesograpta circumdata*, p. 107 (% &). "Mexico". Type in Oxford. Now *Toxomerus circumdatus* (Bigot) (Thompson *et al.*, 1976: 49) (Syrphidae).
90. ?*Mesograpta lacrymosa*, p. 108 (% &). "Brésil et Mexique". Type in Oxford. Now *Toxomerus lacrymosus* (Bigot) (Thompson *et al.*, 1976: 51) (Syrphidae).
91. ?*Mesograpta heraldica*, p. 109 (% &). "Mexico". Type in Oxford. Now *Toxomerus heraldicus* (Bigot) (Thompson *et al.*, 1976: 50) (Syrphidae).
92. ?*Mesograpta trilobata*, p. 109 (%). "Mexico". Type in Oxford. Now *Toxomerus trilobatus* (Bigot) (Thompson *et al.*, 1976: 55) (Syrphidae).
93. ?*Mesograpta bistriga*, p. 110 (&). "Mexico". Type in Oxford. Now in *Toxomerus* (Thompson *et al.*, 1976: 48) (Syrphidae).

94. ?*Mesograpta maculata*, p. 111 (&). "Mexique, Cuba, Brésil". Types in Oxford. Now *Toxomerus maculatus* (Bigot) (Thompson *et al.*, 1976: 52) (Syrphidae).

95. ?*Mesograpta bicincta*, p. 112 (%). "Mexico". Type in Oxford. Now in *Allograpta* (Thompson *et al.*, 1976: 34) (Syrphidae).

1885a:

96. *Limnophora limbata*, p. 271 (&). "Mexique, Chili". Unchanged (Pont, 1972: 28) (Muscidae).

97. *Limnophora normata*, p. 272 (%). "Mexico". Unchanged (Pont, 1972: 29) (Muscidae).

98. *Limnophora rufipes*, p. 273 (&). "Mexico". Now a junior synonym of *Bithoracochaeta leucoprocta* (Wiedemann, 1830) (Pont, 1972: 37) (Muscidae).

99. *Limnophora anthrax*, p. 274 (%). "Mexico". Now in *Spilogona* (Pont, 1972: 33) (Muscidae).

100. ?*Hydrophoria pictipes*, p. 275 (&). "Mexico". Now in *Taeniomyia* (Pont, 1974: 9) (Anthomyiidae).

101. ?*Hydrophoria calopus*, p. 275 (&). "Mexico". Now a junior synonym of *Bithoracochaeta leucoprocta* (Wiedemann, 1930) (Pont, 1972: 37) (Muscidae).

102. *Homalomyia mexicana*, p. 284 (%). "Mexico". Now a junior synonym of *Fannia canicularis* (Linnaeus, 1761) (Pont, 1972: 4) (Muscidae).

103. *Dialyta bicolor*, p. 302 (%). "Mexico". Now in *Cordiluroides* (Pont, 1972: 44) (Muscidae).

1885b:

104. *Nycteribia mexicana*, p. 245 (?sex). "?Mexico". Now *Basilisa bellardii* (Rondani, 1878) (Guimarães, 1968b: 2) (Nycteribiidae).

1885d:

105. *Stictomyia longicornis*, p. clxvi (% &). "Mexico". Unchanged (Steyskal, 1968b: 22) (Otitidae).

1885e:

106. *Dimorphomyia calliphoroides*, p. clxxiii (?sex). "Mexico". Type in ?Oxford. Now *Asemosyrphus mexicanus* (Macquart, 1842) (Thompson *et al.*, 1976: 97) (Syrphidae).

1885f:

107. *Melanostoma cyaneocincta*, p. 251 (%). "Mexico". Type in ?Oxford. Unplaced Melanostomini (Thompson *et al.*, 1976: 47) (Syrphidae).

108. *Ocyptamus fenestratus*, p. 251 (%). "Mexico". Type in Oxford. Now a junior synonym of *Ocyptamus fuscipennis* (Say, 1823) (Thompson *et al.*, 1976: 19) (Syrphidae).

1886a:

109. *Tetradiscus notatus*, p. 371 (%). "Mexico". Now *Chyliza bigoti* Melander, 1920 (Prado, 1975a: 2) (Psilidae).

110. *Nerius plurivittatus*, p. 372 (%). "Mexico". Unchanged (Steyskal, 1968d: 5) (Neriidae).

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111. *Nerius flavifrons*, p. 372 (&). "Mexico". Now in *Glyphidops (Oncopsia)* (Steyskal, 1968d: 3) (Neriidae).
112. *Calobata callichroma*, p. 373 (%). "Mexico". Now a junior synonym of *Ptilosphen cyaneiventris* (Macquart, 1846) (Steyskal, 1968a: 13) (Micropezidae).
113. *Calobata calocephala*, p. 375 (misprinted as 575) (% &). "Mexico". Now in *Scipopus* (Steyskal, 1968a: 15) (Micropezidae).
114. *Taeniptera calosoma*, p. 379 (% &). "Mexico". Now *Rainieria (Rainieriella) calosoma* (Bigot) (Steyskal, 1968a: 15) (Micropezidae).
115. *Taeniptera pallidipennis*, p. 380 (&). "Mexico". Now *Neotanypeza (Neotanypeza) ornatipes* (Bigot) (Steyskal, 1967: 1) (see next species) (Tanypezidae).
116. *Taeniptera ornatipes*, p. 380 (%). "Mexico". Now *Neotanypeza (Neotanypeza) ornatipes* (Bigot) (Steyskal, 1967: 1) (Tanypezidae).
117. *Grallomyia caloptera*, p. 381 (% &). "Mexico". Now a junior synonym of *Taeniptera ichneumonea* Brauer, 1885 (Steyskal, 1968a: 17) (Micropezidae).
118. *Micropeza obscura*, p. 387 (%). "Mexico". Unchanged (Steyskal, 1968a: 3) (Micropezidae).
119. ?*Enicopus fuscus*, p. 387 (&). "Mexico". Now *Themira (Enicita) fusca* (Bigot) (Steyskal, 1968c: 3, unrecognized) (Sepsidae).
- 1887a:
120. *Conops nigrifascies*, p. 40 (&). "Mexico". Now in *Physocephala* (Papavero, 1971a: 8) (Conopidae).
121. *Conops carbonarius*, p. 42 (% &). "Mexico". A junior synonym of the above (Papavero, 1971a: 8) (Conopidae).
- 1887b:
122. *Zodion flavipenne*, p. 204 (&). "Mexico". Unchanged (Papavero, 1971a: 12) (Conopidae).
123. *Zodion zebrinum*, p. 204 (%). "Mexico". Unchanged (Papavero, 1971a: 13) (Conopidae).
- 1887c:
124. *Jurinia barbata*, p. cxl (&). "Mexico". Unchanged (Guimarães, 1971: 68) (Tachinidae).
125. *Jurinia gonioides*, p. cxl (&). "Mexico". Now a junior synonym of *Archytas lateralis* (Macquart, 1843) (Guimarães, 1971: 50) (Tachinidae).
126. *Blepharipeza trichopsis*, p. cxl (%). "Mexico". An unrecognized species of *Leschenaultia* (Guimarães, 1971: 186) (Tachinidae).
127. *Echinomyia cora*, p. cxl (&). "Mexico". An unrecognized species of *Peleteria* (Guimarães, 1971: 44) (Tachinidae).
128. *Echinomyia macrocera*, p. cxl (&). "Mexico". An unrecognized species of *Peleteria* (Guimarães, 1971: 44) (Tachinidae).
129. *Echinomyia notata*, p. cxli (%). "Mexico". An unrecognized species of *Exopalpus* (Guimarães, 1971: 55) (Tachinidae).
130. *Fabricia infumata*, p. cxli (&). "Mexico". An unrecognized species of *Archytas* (Guimarães, 1971: 50) (Tachinidae).

131. *Frontina rufostylata*, p. cxli (%). "Mexico". An unrecognized species of *Chaetogaedia* (Guimarães, 1971: 178) (Tachinidae).
132. *Frontina chrysopyga*, p. cxli (&). "Mexico". Now in *Triachora* (Guimarães, 1971: 184) (Tachinidae).
133. *Elachipalpus nigrifrons*, p. cxli (&). "Mexico". An unrecognized Tachinidae (Guimarães, 1971: 216) (Tachinidae).

1887d:

134. *Calliphora xanthorrhina*, p. clxxx (&). "Mexico". Now in *Mesembrinella* (Guimarães, 1977: 35) (Calliphoridae).
135. *Pyrellia obscuripes*, p. clxxx (%). "Mexico". Now a junior synonym of *Morellia ochricornis* (Wiedemann, 1830) (Pont, 1972: 9) (Muscidae).
136. *Musca atrifrons*, p. clxxx (&). "Cuba et Mexique". Now a junior synonym of *Musca domestica* Linnaeus, 1758 (Pont, 1972: 7) (Muscidae).
137. *Curtonevra fulvipes*, p. clxxxii (&). "Mexico". An unplaced Cyrtoneurinae (Pont, 1972: 58) (Muscidae).
138. *Curtonevra vittigera*, p. clxxxii (%). "Mexico". Now a junior synonym of *Hemichlora scordalus* (Walker, 1861) (Pont, 1972: 49) (Muscidae).
139. *Curtonevra pallidicornis*, p. clxxxii (&). "Mexico". Now in *Myospila* (Pont, 1972: 27) (Muscidae).
140. *Curtonevra callimera*, p. clxxxii (&). "Mexico". Now in *Morellia* (Pont, 1972: 8) (Muscidae).

1888b:

141. *Echinomyia rubrifrons*, p. 80 (&). "Mexico". An unrecognized species of *Peleteria* (Guimarães, 1971: 45) (Tachinidae).

1888c:

142. *Sphaerophoria nasuta*, p. 253 (%). "Mexico". Type in Oxford. Now *Allograpta nasuta* (Bigot, 1884) (Thompson *et al.*, 1976: 36) (Syrphidae).
143. *Sphaerophoria trilimbata*, p. 253 (%). "Mexico". Type in Oxford. Now in *Allograpta* (Thompson *et al.*, 1976: 38) (Syrphidae).
144. *Mesograpta quinquecincta*, p. 254 (&). "Mexico". Type in Oxford. Now *Toxomerus quinquecinctus* (Bigot) (Thompson *et al.*, 1976: 54) (Syrphidae).
145. *Scopolia satanica*, p. 254 (%). "Mexico". Now in *Penthosia* (Guimarães, 1971: 17) (Tachinidae).
146. *Stevenia pallidiventris*, p. 255 (%). "Mexico". An unrecognized Phasiinae (Guimarães, 1971: 19) (Tachinidae).
147. *Stevenia flavocalyptrata*, p. 255 (%). "Mexico". An unrecognized Phasiinae (Guimarães, 1971: 19) (Tachinidae).
148. *Echinomyia cinerascens*, p. 256 (%). "Mexico". Now in *Peleteria* (Guimarães, 1971: 44) (Tachinidae).
149. *Exorista rufipalpis*, p. 256 (%). "Mexico". Now in *Trafoia* (Guimarães, 1971: 83) (Tachinidae).

150. *Exorista rufata*, p. 257 (% &). "Mexique et Brésil (Pará)". Now in *Bolomyia* (Guimarães, 1971: 187) (Tachinidae).
151. *Chaetolyga erythrogyga*, p. 257 (&). "Mexico". Now in *Winthemia* (Guimarães, 1971: 196) (Tachinidae).
152. *Chaetolyga nigriventris*, p. 257 (%). "Mexico". Not cited in Guimarães's 1971 catalogue (Tachinidae).
153. *Chaetolyga dubia*, p. 257 (%). "Mexico". Now in *Drino* (Guimarães, 1971: 188) (Tachinidae).
154. *Chaetolyga nigripalpis*, p. 258 (%). "Mexico". Now in *Eucelatoria* (Guimarães, 1971: 133) (Tachinidae).
155. *Chaetolyga flavolimbata*, p. 258 (%). "Mexico". Now in *Triodontopyga* (Guimarães, 1971: 213) (Tachinidae).
156. *Chaetolyga albopicta*, p. 258 (&). "Mexico". Now in *Spathimeigenia* (Guimarães, 1971: 148) (Tachinidae).
157. *Chaetolyga occidentalis*, p. 258 (%). "Mexico". An unplaced Winthemiini (Guimarães, 1971: 198) (Tachinidae).
158. *Chaetolyga nitdiventris*, p. 258 (&). "Mexico". An unplaced Winthemiini (Guimarães, 1971: 198) (Tachinidae).
159. *Chaetolyga aenea*, p. 259 (&). "Mexico". An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
160. *Degeeria cora*, p. 259 (&). "Mexico". Now in *Eucelatoria* (Guimarães, 1971: 133) (Tachinidae).
161. *Degeeria anthracina*, p. 259 (&). "Mexico". Now *Oxynops anthracinus* (Bigot) (Guimarães, 1971: 143) (Tachinidae).
162. *Cestonia nigra*, p. 259 (&). An unplaced Blondeliini (Guimarães, 1971: 153) (Tachinidae).
163. *Macquartia atrifrons*, p. 259 (&). "Mexico". An unrecognized species of *Pseudeuantha* (Guimarães, 1971: 104) (Tachinidae).
164. *Prosopaea americana*, p. 260 (&). "Mexico". An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
165. *Phorocera barbata*, p. 260 (&). "Mexico". Now in *Metadoria* (Guimarães, 1971: 140) (Tachinidae).
166. *Phorocera melanoceps*, p. 260 (&). "Mexico". A junior synonym of *Metadoria barbata* (Bigot) (Guimarães, 1971: 140) (Tachinidae).
167. *Ceromasia quadrivittata*, p. 261 (&). "Mexico". An unrecognized Dexiinae (Guimarães, 1971: 122) (Tachinidae).
168. *Ceromasia zonata*, p. 261 (&). "Mexico". Now in *Spathimeigenia* (Guimarães, 1971: 149) (Tachinidae).
169. *Ceromasia pictigaster*, p. 261 (&). "Mexico". An unplaced Dexiini (Guimarães, 1971: 97) (Tachinidae).
170. *Ceromasia castanifrons*, p. 261 (&). "Mexico". An unrecognized species of *Prospheysa* (Guimarães, 1971: 213) (Tachinidae).
171. *Ceromasia chrysocephala*, p. 261 (&). "Mexico". An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).

172. *Ceromasia spinipes*, p. 262 (&). "Mexico". An unplaced Blondeliini (Guimarães, 1971: 153) (Tachinidae).
173. *Ceromasia abbreviata*, p. 262 (&). "Mexico". An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
174. ?*Viviania rufopygata*, p. 262 (&). "Mexico". An unrecognized Leskiini (Guimarães, 1971: 120) (Tachinidae).
175. ?*Viviania citrina*, p. 262 (&). "Mexico". Now a junior synonym of *Chaetona icterica* (Wiedemann, 1830) (Guimarães, 1971: 105) (Tachinidae).
176. *Micropalpus nigrifrons*, p. 263 (&). "Mexico". An unplaced Linnaemyini (Guimarães, 1971: 83) (Tachinidae).
177. *Masicera flavifacies*, p. 263 (&). "Mexico". An unplaced Sturmiini (Guimarães, 1971: 193) (Tachinidae).
178. *Tricoliga caloptera*, p. 263 (&). "Mexico". Now junior synonym of *Pseudeuantha indita* (Walker, 1860) (Guimarães, 1971: 104) (Tachinidae).
179. *Tricoliga fulvidapex*, p. 263 (%). "?Mexique ou ?Celebes". An unrecognized species of *Winthemia* (Guimarães, 1971: 196) (Tachinidae).
180. *Prosenia maculifera*, p. 264 (&). "Mexico". An unrecognized species of *Stomatodexia* (Guimarães, 1971: 119) (Tachinidae).
181. *Prosenia obscura*, p. 264 (%). "Mexico". Now in *Eudexia* (Guimarães, 1971: 29) (Tachinidae).
182. *Prosenia curvirostris*, p. 264 (%&). "Mexique ou Brésil". Now in *Prosenoides* (Guimarães, 1971: 32) (Tachinidae).
183. *Rhamphinina formidabilis*, p. 264 (%). "Mexico". Now in *Eudexia* (Guimarães, 1971: 29) (Tachinidae).
184. *Rhamphinina major*, p. 265 (%). 'Mexique et Washington Territory'. Now in *Ptilodexia* (Guimarães, 1971: 33) (Tachinidae).
185. *Rhamphinina anthracina*, p. 265 (%&). "Mexico". Now in *Ptilodexia* (Guimarães, 1971: 33) (Tachinidae).
186. *Rhynchodexia tincticornis*, p. 266 (%). "Mexico, Paso de Macho". Now in *Ptilodexia* (Guimarães, 1971: 34) (Tachinidae).
187. *Microphthalma calogaster*, p. 266 (%). "Mexico, Orizaba". Now in *Macrometopa* (Guimarães, 1971: 23) (Tachinidae).
188. *Myocera simplex*, p. 266 (&). "Mexico". Now in *Ptilodexia* (Guimarães, 1971: 34) (Tachinidae).
189. *Tromodesia hoemorrhoidalis* (sic), p. 267 (?sex). "Mexico". Now a junior synonym of *Tromodesiopsis atrifrons* (Wiedemann, 1830) (Guimarães, 1971: 102) (Tachinidae).
190. *Homodexia longicornis*, p. 267 (%). "Mexico". Now in *Pseudodexia* (Guimarães, 1971: 108) (Tachinidae).
191. *Homodexia vittigera*, p. 267 (?&). "Mexico". Now *Thelairoides vittigerus* (Bigot) (Guimarães, 1971: 95) (Tachinidae).
192. *Homodexia flavipes*, p. 268 (&). "Mexico". Now in *Eucalodexia* (Guimarães, 1971: 106) (Tachinidae).
193. *Homodexia spinosa*, p. 268 (%). "Mexico". Now *Thelairoides spinosus* (Bigot) (Guimarães, 1971: 95) (Tachinidae).

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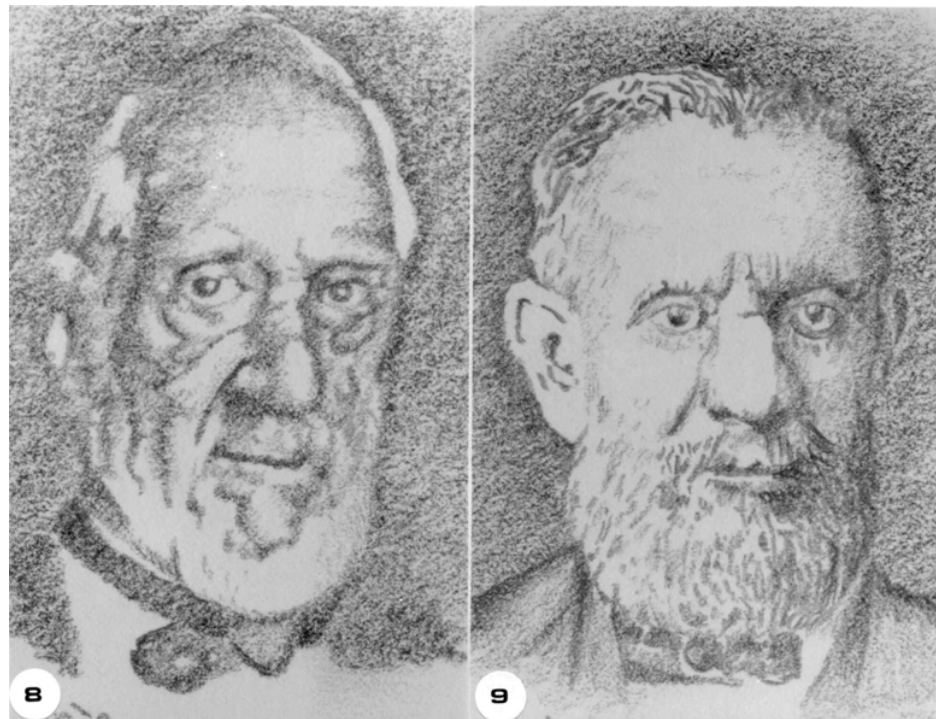
194. *Homodexia triangulifera*, p. 268 (%). "Mexico". Now in *Ptilodegeeria* (Guimarães, 1971: 147) (Tachinidae).
195. *Oplisa albifacies*, p. 268 (&). "Mexico". Now in *Pseudodexia* (Guimarães, 1971: 108) (Tachinidae).
196. *Oplisa nigrifacies*, p. 268 (% &). "Mexico". Now in *Metadoria* (Guimarães, 1971: 140) (Tachinidae).
197. *Pyrrosia ochracea*, p. 268 (% &). "Mexico". Not cited in Guimarães's 1971 catalogue (Tachinidae).
198. *Phorostoma appendiculata*, p. 269 (&). "Mexico". An unrecognized species of *Myiomima* (Guimarães, 1971: 31) (Tachinidae).
199. *Dexiosoma fumipennis*, p. 270 (&). "Mexico". Now in *Ptilodexia* (Guimarães, 1971: 33) (Tachinidae).
200. *Dexiosoma partita*, p. 270 (&). "Mexico". An unrecognized Tachinidae (Guimarães, 1971: 216).
201. *Anthracomylia pallidicornis*, p. 270 (%). "Mexico". Now in *Pseudodexia* (Guimarães, 1971: 108) (Tachinidae).
- 1888e:
202. *Psilopodinus astequinus*, p. xxx (%). "Mexico". Now in *Condylostylus* (Robinson, 1970: 3) (Dolichopodidae).
203. *Poecilobothrus mexicanus*, p. xxx (%). "Mexico". Now in *Pelastoneurus* (Robinson, 1970: 51) (Dolichopodidae).
- 1892a:
204. *Anthrax eurhinatus*, p. 355 (&). "Mexico". Now *Villa (Paravilla) eurhinata* (Bigot) (Painter *et al.*, 1978: 51) (Bombyliidae).
205. *Bombylius albopenicillatus*, p. 363 (%). "Mexico". Now in *Parabombylius* (Painter *et al.*, 1978: 4) (Bombyliidae).

12. THE BROTHERS DUGÈS

Alfred Auguste Delsescautz Dugès (Fig. 8) and his brother Eugène (Fig. 9) were born in Montpellier, France, around 1826. Their father, Antoine Louis Delsescautz, was a medical doctor, professor of the University of Paris, and a naturalist. Upon their father's death, the two brothers moved to Paris to study medicine. Alfred left for Mexico, arriving there in 1853. As soon as his medical title was recognized in Mexico City, he moved to Guanajuato, where he remained practicing medicine and teaching natural history. His brother Eugène came to Mexico only in 1865, also becoming established in Guanajuato as a medical doctor. Eugène would send many collections of insects to Paris. Later he founded a natural history museum in Morelia and died in that city on 13 January 1895 (Anon., 1895). Alfred also used to collect

in the neighbourhoods of Guanajuato, especially on Sundays, accompanied by his students. He died at 84 years of age on 7 January 1910 (Adler, 1989; Barnhart, 1965; Duellman, 1961; Howard, 1930; Kellogg, 1932; Martín del Campo, 1937; McVaugh, 1972; Palmer *et al.*, 1954; Papavero, 1971b; Smith & Smith, 1969, 1973; Stafleu & Cowan, 1976 (1:692)).

Alfred Dugès authored the first paper on Diptera published in Mexico (1887), describing *Ornithomyia villadae* (p. 20, pl. 3, figs. 3a-b), now a junior synonym of *Lynchia nigra* (Perty, 1833) (Guimarães, 1968a: 6) (Hippoboscidae).



Figures 8 - 9

8. Alfred Auguste Delsescautz Dugès. Redrawn by S. Ibáñez-Bernal from a photograph published in Howard (1930). **9.** Eugène Dugès. Redran by S. Ibáñez-Bernal from a photograph published in Dugesiana, 6(2) (1999).

13. THE SPECIES DESCRIBED BY FRIEDRICH MORITZ BRAUER

Friedrich Moritz Brauer was born on 12 May 1832 in Vienna (Mariahilferstrasse 335), the son of Justus Brauer and his second wife Louise Braun, from Hannover. The house where Brauer was born, now in the commercial center of Vienna, was at that time the cottage of the family, which actually resided in the center of Vienna. In the gardens and wells of his home, Brauer started to observe the biology of insects, noting their metamorphosis; he reared mosquitoes in vials.

In 1838 he had as teacher of drawing Anton Löw, who also had the habit to collect insects, and with him Brauer learned the collecting techniques. His father and his uncle Daniel Braun, as well as his brother Theodor were also fond of entomology. Thus Friedrich very early had his tastes inclined to that field of zoology.

Upon his father's death in 1839, the family spent a last summer in Mariahilferstrasse, as the following year they moved to Germany, where they lived with some relatives. In 1841 they rented a cottage in Döbling. There Brauer started excursions with Löw, especially in Krottentoch and Kallenberg. In 1842 his mother married again, with Dr. Victor Ivanchich. Summers were then spent in Brühl, where Friedrich frequently hunted insects in the company of Löw.

In 1845 Brauer was introduced to Gustav Gözsys, who at that time frequented the second grade in the gymnasium. Gözsys' father, the medical doctor of the Brauer family since 1842, convinced them to let Friedrich frequent the public school, for which he was prepared by private teachers since 1843. Brauer entered the school of the 'Piaristen', after passing examinations. He suffered bad moments, however, for until then he had no contact with other children of his age. In 1846, being in the third grade in the gymnasium, he was given a small collection of exotic insects, which he proposed to identify. He was introduced to the then curator of insects in the Hofsmuseum, Vincenz Kollar, by his uncle Daniel, with whom Kollar had relations. From then on, Friedrich began to frequent the collections of the Vienna Hofsmuseum, thus obtaining a good knowledge of all the orders of insects. By that time he received Burmeister's "Handbuch der Entomologie", which he studied assiduously, in spite of the fact that he could not assimilate quite a few things, due to his age.

Thus Brauer spent his time, collecting and studying insects, until the political crisis of 1848, which affected his family. In this same year, the gymnasium where he studied suffered many reforms in the teaching methods, which brought him many difficulties. Precociously interested in research, he had no taste for the regular courses at school. By that time he also became interested in the biology of the Odonata, and in 1850 published his first paper on the subject, in the annals of the "Gesellschaft der Freunde der Naturwissenschaft" of Vienna, through the good

efforts of Georg Frauenfeld, whom he had previously met. Enthused with his first successes, he dedicated himself to the study of insect metamorphosis, especially of the Neuropteroidea, a subject which he would investigate for many years to come.

From July to September 1850 he traveled with his family to Adelsberg, Trieste, Venice and Tyrol. As in his gymnasium, his fame of naturalist brought jealousy, and he changed schools.

In March 1852 he was not able to pass the "matura" exams; in September of the same year he again tried, with the same result. His family decided then to take some providences, and applied directly to the Minister of Education, quiring another chance; a boy with published papers, accepted by the Royal Academy of Vienna and other scientific associations, they noted, could not depend on an examination to proceed in his career. The new chance was granted, and after passing examinations on mathematics and Latin, Brauer entered the University, to follow the course of medicine. He was given at that occasion Westwoods's "Modern classification of insects", which induced him to study English.

On May 1854 he lost his mother, and his brother Albert became his tutor. At that time he made the acquaintance of Schiner and Johann Egger. Schiner was not yet a dipterist, being interested in ornithology and botany. As Brauer had a reasonable collection of flies, Frauenfeld, Egger and Schiner became interested in the systematics of that Order, and tried to identify them through the works of Meigen. In 1854 and 1855 Brauer and Egger undertook frequent excursions to collect Diptera.

In 1856 Brauer married Leontine Boschetty, whom he knew already for some years. In the same year, Karl Lang found in the Pratter a specimen of *Oestrus pictus*, and Brauer decided to start the study of the Oestroidea, beginning to compile the literature and to make field observations. Visiting the Pratter and Imperial Zoological Garden he was able to rear several parasitic oestrids, completing his notes and studies, being helped by Rogenhofer, Zeller and Hermann Loew.

In 1860 he published on *Oestrus hominis*, based on larvae brought from Brazil by Johann Natterer, deposited in the Vienna Museum, erecting then the genus *Dermatobia*.

Finally, after 7 years of studies of medicine, Brauer passed the "Rigorosum" and graduated. Soon afterwards he contracted typhus, and, due to his precarious health, gave up the idea of passing a second "Rigorosum".

In October 1861 he accepted a position in the Naturalienkabinet (Vienna Museum), leaving medicine to dedicate himself exclusively to natural history. However, he remained at the museum for 16 year as curator of molluscs. During that time, with J. F. Bergenstamm, he published the famous monographs of

Muscoidea (1889-1894). In that series, entitled “Die Zweiflügler des Kaiserlichen Museum zu Wien”, Brauer and Bergenstamm proposed many genera, especially in the Family Tachinidae.

Brauer also published on the higher classification of the Diptera and on the phylogeny of insects. In 1871 he obtained his doctor's degree in the faculty of philosophy, and two years later the title of “Professor Extraordinarius”. With the death of Frauenfeld (1873), Ferrari (1876) and Redtenbacher (1876), the number of members of the Museum diminished and only then Brauer obtained a better position. He dedicated himself entirely to the study of the Diptera, identifying and organizing the collections of the Vienna Museum, which included those of Winthem, Wiedemann, Egger and Schiner.

In 1876 he was named curator of the entomological section of the Museum and made a member of the Academy of Science and other learned societies. From 1880 on, he started publishing his monumental work on the Diptera of the Imperial Museum of Vienna (“Die Zweiflügler des Kaiserlichen Museums zu Wien”). In 1884 he was made “Ordentlich Professor” and in 1888 effective member of the Academy of Sciences.

The elaboration of the “Zweiflügler” left him very little time. At that period the Naturalienkabinet was incorporated to the Hofsmuseum. He revised the collections of Robineau-Desvoidy, Rondani and Bigot. His collaborator, Bergenstamm, was not an ideal partner, but as he had many important types, Brauer had to accept his collaboration. The great work was finished only in 1893. During this period he lost his wife and married for a second time, with Ludmila von Koenig.

With the advancement of the years he felt old and fatigued, and needed much stimulation to prepare his works. He published less and less. In 1896 he had the pleasure of describing the larva of *Cobboldia* extracted from an Indian elephant. With the decline of his mental activities and with the death of his second wife, he became embittered.

In 1898 he was made head of the zoological sections of the Museum, but this position was reached too late in his life to introduce in the Museum the changes he expected to impose. His last paper was Mik's necrologue (1901).

He died on 29 December 1904, after much suffering, at the house of his daughter Laura, the wife of the malacologist A. Wagner (Handlirsch, 1905).

Brauer described only a few species of Mexican Diptera, listed below. His types are all deposited in the Vienna Natural History Museum.

1882:

1. *Cynipimorpha bilimeki*, p. 75, (sex?). “Mexico, Veracruz, Orizaba; Morelos, Cuernavaca” (as *bilimecki*, lapsus). Unchanged (James, 1973:53) (Stratiomyidae).

1885:

2. *Calobata ichneumonea*, p. 388, fig. 4 (pl.) (sex?). "Mexico, Veracruz, Orizaba". Now in *Taeniaptera* (Steyskal, 1968a: 17) (Micropezidae).

1897:

3. *Melanota dubia*, p. 357 (sex?). "Mexico". An unrecognized Tachinidae (Guimarães, 1971: 215).

The remaining species were described with Bergenstamm:

1889:

4. *Phasipteryx bilimeki*, p. 147 (1889:79). "Mexico, Veracruz, Orizaba". Now in *Ormia* (Guimarães, 1971:21) (Tachinidae).
5. *Macrometopa mexicana*, p. 117 (1889:49). "Mexico". Now a junior synonym of *Macrometopa calogaster* (Bigot, 1889) (Guimarães, 1971: 23) (Tachinidae).
6. *Hystrisiphona pseudohystricia*, p. 120 (1889: 93). "Mexico, Tacubaya". Now in *Echinodexia* (Guimarães, 1971: 29) (Tachinidae).
7. *Myiopharus metopia*, p. 161 (1889: 93). "Mexico, Tacubaya, and Yucatan, Merida". Unchanged (Guimarães, 1971: 142) (Tachinidae).
8. *Masipoda geminata*, p. 102 (1889: 94). "Mexico". Now in *Winthemia* (Guimarães, 1971:196) (Tachinidae).

1891:

9. *Gaediopsis mexicana*, p. 336 (1891:32). "Mexico". Unchanged (Guimarães, 1971:179) (Tachinidae).
10. *Paragaedia hedemanni*, p. 350 (1891:45). "Mexico". Now in *Chaetoprosopa* (Guimarães, 1971: 184) (Tachinidae).

1893:

11. *Cyrtosoma rufum*, p. 132 (1893: 44). "Mexico, Guerrero, Omilteme". Now in *Ocyrtosoma* (Guimarães, 1971: 37) (Tachinidae).
12. *Wulpia aperta*, pp. 128, 188 (1893: 40, 100). "Mexico". Now in *Catemophrys* (Guimarães, 1971: 114) (Tachinidae).
13. *Microchira mexicana*, p. 128 (1893: 40). "Mexico". Now in *Paradidyma* (Guimarães, 1971: 115) (Tachinidae).
14. *Paradidyma aperta*, p. 127 (1893: 39). "Mexico". A junior synonym of *Paradidyma mexicana* (Brauer & Bergenstamm, 1893) (Guimarães, 1971: 115) (Tachinidae).
15. *Metadoria mexicana*, p. 117 (1893: 20). "Mexico". A junior synonym of *Metadoria barbata* (Bigot, 1889) (Guimarães, 1971: 140) (Tachinidae).
16. *Gaediophana atra*, pp. 123, 201 (1893: 35, 113). "Mexico" Unchanged (Guimarães, 1971: 179) (Tachinidae).

14. THE SPECIES DESCRIBED BY ERMANNIO GIGLIO-TOS

Ermanno Giglio-Tos (Fig. 10) was born in Turin on August 25, 1865. He started his studies of natural history under the guidance of M. Lessona and L. Camerano, with whom he learned the principles of systematic zoology. Even in later years, when he dedicated himself to studies of vertebrate anatomy, hematology, cytology, mechanics of development and applied zoology, he never quite abandoned the study of systematics, of which he was particularly fond.

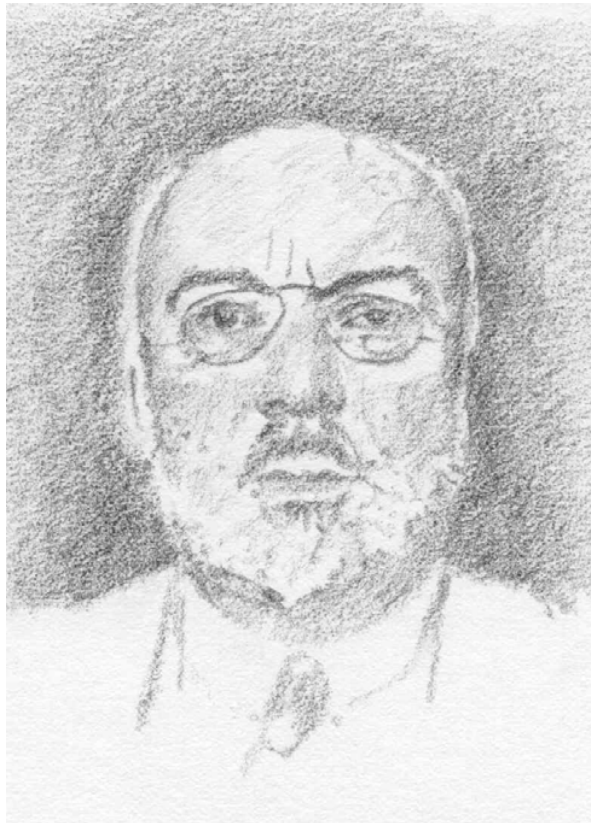


Figure 10

Ermanno Giglio-Tos. Redrawn by S. Ibáñez-Bernal from a photograph property of N. Papavero.

Entering the Museo Zoologico di Torino at the age of 20, Giglio-Tos became interested in the systematics of insects, and began his activities with a number of papers on Diptera, of which there was an abundant collection, left by Bellardi (see Part 6). His first publications were on European and African flies, but his attention turned afterwards to Mexican and Central American flies. He published short papers from 1890 to 1893, and his great work, the "Ditteri del Messico", was published from 1892 to 1895, in 4 parts. As Bellardi had not finished his studies of Mexican Diptera, Giglio-Tos completed the work, describing the remaining Mexican collections of Stratiomyidae, Aschiza, Calyptratae and Acalyptratae. In 1896, he published his last paper on Neotropical Diptera, describing a striking new genus of Tabanidae brought from panama by Enrico Festa.

As the Museum of Turin was receiving a great number of insects, Giglio-Tos became gradually interested in the study of other orders of insects, and after some essays in Coleoptera and Hemiptera, became definitely interested in the Orthoptera (*sensu lato*), in which he was to become known as a specialist.

Appointed professor of zoology and comparative anatomy at the Reale Università di Cagliari, when he was 36 years old, he founded the Istituto di Biologia Marina in San Bartolomeo. He was next called to be professor of zoology and vertebrate anatomy at the University of Firenze, where he remained only two years, passing on to the chair of anatomy and physiology of the University of Turin, where he occupied the chair of zoology, returning then to Cagliari, where he stayed for seven years. His last position was that of professor of zoology in Turin, to which he was appointed in December 1925. He died there on August 18, 1926 (Zavatari, 1927).

All the types of Giglio-Tos are deposited in the Turin Zoological Museum. He described the following Mexican species:

1890:

1. *Ditomyia zonata*, p. 2, pl. II, fig. 6 (% &). "Mexico, Veracruz, Orizaba (Sumichrast). Box 1. As an unplaced Ditomyiidae (Papavero, 1977: 4) (Ditomyiidae).
2. *Ditomyia mexicana*, p. 3, pl. II, fig. 7 (?sex). "Mexico, Veracruz, Orizaba (Sumichrast)". Box 1. As an unplaced Ditomyiidae (Papavero, 1977: 4) (Ditomyiidae).

1891a:

3. *Heteracanthia mexicana*, p. 1 (&) (1892e: 8). "Mexico (Sumichrast)". Box 8. Now *Heteracanthia ruficornis* Macquart, 1849 (James, 1973: 6) (Stratiomyidae).
4. *Cyphomyia ochracea*, p. 2 (&) (1892e: 10, pl. I, fig. 4). "Mexico (Sumichrast)". Box 8. Unchanged (James, 1973: 27) (Stratiomyidae).
5. *Euparyphus carbonarius*, p. 2 (%). (1892e: 12, pl. I, fig. 5). "Mexico (Sumichrast)". Box 8. Now *Euparyphus (Euparyphus) carbonarius* Giglio-Tos (James, 1973: 31) (Stratiomyidae).

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6. *Clitellaria stigma*, p. 2 (&) (1892e: 13). "Mexico (Sumichrast)". Type ?lost. Now in *Dieuryneura* (James, 1973: 31) (Stratiomyidae).
7. *Acanthina? bellardii*, p. 2 (&) (1892e: 14). "Tehuacan (Sumichrast)". Box 8. Now in *Artemita* (James, 1973: 50) (Stratiomyidae).
8. *Microchrysa nova*, p. 2 (&) (1892e: 16). "Mexico". Box 8. Unchanged (James, 1973: 17) (Stratiomyidae).
9. *Merosargus hyalopterus*, p. 3 (%,&) (1892e: 19). "Orizaba (Sumichrast)". Box 8. Unchanged (James, 1973: 13) (Stratiomyidae).
10. *Merosargus dissimilis*, p. 3 (%) (1892e: 20, pl. I, fig. 7). "Orizaba". Box 8. Unchanged (James, 1973: 12) (Stratiomyidae).
11. *Merosargus orizabae*, p. 3 (%) (1892e: 20). "Orizaba (Sumichrast)". Box 9. Unchanged (James, 1973: 14) (Stratiomyidae).
12. *Merosargus coriaceus*, p. 4 (% &) (1892e: 21). "Orizaba (Sumichrast)". Box 8. Unchanged (James, 1973: 12) (Stratiomyidae).
13. *Sargus (?Macrosargus) filiformis*, p. 4 (%) (1892e: 28). "Mexico". Box 8. Now a junior synonym of *Sargus caesius* Bellardi, 1859 (James, 1973: 18) (Stratiomyidae).

1892c:

14. *Mixogaster dimidiata*, p. 1 (&) (1892e: 33, pl. I, figs. 9, 9a). "Tuxpango (Sumichrast)". Box 15. Unchanged (Thompson *et al.*, 1976: 58) (Syrphidae).
15. *Ubristes chrysopyga*, p. 1 (&) (1892e: 37). "Orizaba (Sumichrast)". Box 15. Now *Microdon (Ubristes) chrysopygus* (Giglio-Tos) (Thompson *et al.*, 1976: 61) (Syrphidae).
16. *Microdon aquilinus*, p. 2 (&) (1892e: 37). "Tuxpango (Sumichrast)". Box 15. Unchanged (Thompson *et al.*, 1976: 63) (Syrphidae).
17. *Copestylum parvum*, p. 2 (% &) (1892e: 42). "Tehuacan (Sumichrast)". Box 15. Now a junior synonym of *Copestylum simile* (Giglio-Tos, 1892) (Thompson *et al.*, 1976: 84) (Syrphidae).
18. *Copestylum simile*, p. 2 (% &) (1892e: 42). "Tehuacan (Sumichrast)". Box 15. Unchanged (Thompson *et al.*, 1976: 84) (Syrphidae).
19. *Volucella omochroma*, p. 2 (&) (1892e: 47). "Mexico, without locality". Box 15. Now in *Copestylum* (Thompson *et al.*, 1976: 80) (Syrphidae).
20. *Volucella furens*, p. 2 (%) (1892e: 48). "Mexico (Sallé)". Box 15. Now in *Copestylum* (Thompson *et al.*, 1976: 76) (Syrphidae).
21. *Volucella craverii*, p. 2 (%) (1892e: 49). "Mexico (Craveri)". Box 15. Now in *Copestylum* (Thompson *et al.*, 1976: 74) (Syrphidae).
22. *Volucella flavissima*, p. 3 (&) (1892e: 50). "Orizaba (Sumichrast)". Box 15. Now *Copestylum flavissimum* (Giglio-Tos) (Thompson *et al.*, 1976: 75) (Syrphidae).
23. *Volucella minima*, p. 3 (%) (1892e: 53). "Orizaba (Sumichrast)". Box 15. Now *Copestylum minimum* (Giglio-Tos) (Thompson *et al.*, 1976: 79) (Syrphidae).
24. *Volucella dichroica*, p. 3 (&) (1892e: 55). "Huastec (Saussure)". Box 15. Now *Copestylum dichroicum* (Giglio-Tos) (Thompson *et al.*, 1976: 74) (Syrphidae).
25. *Volucella trigona*, p. 3 (%) (1892e: 52). "Orizaba (Sumichrast)". Box 15. Now *Copestylum trigonum* (Giglio-Tos) (Thompson *et al.*, 1976: 85) (Syrphidae).
26. *Volucella hyaloptera*, p. 3 (&) (1892e: 57). "Tampico (Saussure)". Box 16. Now *Copestylum hyalopterum* (Giglio-Tos) (Thompson *et al.*, 1976: 77) (Syrphidae).

27. *Volucella hirsuta*, p. 3 (%) (1892e: 60, as synon. of *coesariata* Williston). "Meztillan (Saussure)". Box 16. Now a junior synonym of *Copestylum caesariatum* (Williston, 1891) (Thompson *et al.*, 1976: 73) (Syrphidae).
28. *Volucella hispida*, p. 4 (%) (1892e: 61, as synon. of *ornata* Williston). "Orizaba (Sumichrast)". Box 16. Now a junior synonym of *Copestylum ornatum* (Williston, 1891) (Thompson *et al.*, 1976: 80) (Syrphidae).
29. *Volucella volucris*, p. 4 (%) (1892e: 61). "Orizaba". Box 16. Now *Copestylum volucre* (Giglio-Tos) (Thompson *et al.*, 1976: 87) (Syrphidae).
30. *Volucella hystrix*, p. 4 (%) (1892e: 62). "Tuxpango (Sumichrast)". Box 16. Now in *Copestylum* (Thompson *et al.*, 1976: 77) (Syrphidae).
31. *Volucella brevis*, p. 4 (% &) (1892e: 63). "Meztillan (Saussure)". Box 16. Now *Copestylum breve* (Giglio-Tos) (Thompson *et al.*, 1976: 72) (Syrphidae).
32. *Volucella obesoides*, p. 4 (%) (1892e: 65). "Mexico (Craveri)". Box 16. Now a junior synonym of *Ornidia obesa* (Fabricius, 1775) (Thompson *et al.*, 1976: 70) (Syrphidae).
33. *Eristalis bombusoides*, p. 4 (% &) (1893c: 3, as synon. of *circe* Williston). "Oaxaca (Sumichrast)". Box 16. Now a junior synonym of *Eristalis (Eoseristalis) circe* Williston, 1891 (Thompson *et al.*, 1976: 102) (Syrphidae).
34. *Eristalis trilimbata*, p. 5 (&) (1893c: 8). "Tampico (Saussure)". Box 16. Now a junior synonym of *Palpada vinetorum* (Fabricius, 1798) (Thompson *et al.*, 1976: 110) (Syrphidae).
35. *Eristalis praeclarus*, p. 5 (%) (1893c: 11, as synon. of *rufiventris* Macquart). "Tuxpango (Sumichrast)". Type ?lost. Now a junior synonym of *Palpada rufiventris* (Macquart, 1846) (Thompson *et al.*, 1976: 108) (Syrphidae).
36. *Eristalis clarissimus*, p. 5 (%) (1893c: 11). "Tuxpango (Sumichrast)". Box 16. Now *Palpada clarissima* (Giglio-Tos) (Thompson *et al.*, 1976: 104) (Syrphidae).
37. *Eristalis sallei*, p. 5 (&) (1893c: 12). "Mexico (Sallé)". Box ?. Now a junior synonym of *Palpada agrorum* (Fabricius, 1787) (Thompson *et al.*, 1976: 103) (Syrphidae).
38. *Eristalis triangularis*, p. 6 (&) (1893c: 9). "Cuautla". Box 16. Now in *Palpada* (Thompson *et al.*, 1976: 110) (Syrphidae).
39. *Aemosyrphus olivaceus*, p. 6 (&) (1893c: 10, as synon. of *bicolor* Bigot). "Mexico". Box 17. Now a junior synonym of *Aemosyrphus arquatus* (Say, 1829) (Thompson *et al.*, 1976: 96) (Syrphidae).
40. *Aemosyrphus griseus*, p. 6 (% &) (1893c: 20, as synon. of *mexicanus* Macquart). "Tehuacan". Box 17. Now a junior synonym of *Aemosyrphus mexicanus* (Macquart, 1842) (Thompson *et al.*, 1976: 97) (Syrphidae).
41. *Aemosyrphus impurus*, p. 6 (&) (1893c: 19, as synon. of *bicolor* Bigot). "Mexico". Box 17. Now a junior synonym of *Aemosyrphus arquatus* (Say, 1829) (Thompson *et al.*, 1976: 96) (Syrphidae).
42. *Platynochaetus niger*, p. 6 (&) (1893c: 20, pl. II, figs. 1, 1a). "Orizaba (Sumichrast)". Box 17. Now a junior synonym of *Quichuana championi* (Williston, 1892) (Thompson *et al.*, 1976: 98) (Syrphidae).
43. *Salpingogaster nova*, p. 7 (&) (1893c: 23, pl. II, fig. 3). "No locality". Box 17. Unchanged (Thompson *et al.*, 1976: 32) (Syrphidae).

44. *Crioprora arctophiloides*, p. 7 (% &) (1893c: 25, pl. II, figs. 2, 2a). "Mexico (Craveri), Angang(ueo) (Saussure)". Box 17. Now in *Criorhina* (Thompson *et al.*, 1976: 118) (Syrphidae).

1892d:

45. *Eristalis sumischraستي* (sic), p. 1 (%) (1893c: 6, corrected to *sumichraستي*). "Tehuacan (Sumichraستي)". Box 16. Now a junior synonym of *Palpada testaceicornis* (Macquart, 1850) (Thompson *et al.*, 1976: 110) (Syrphidae).
46. *Eristalis atropos*, p. 1 (%) (1893c: 14, pl. II, fig. 23). "Mexico (Sallé)". Box 17. Now a junior synonym of *Palpada trigona* (Williston, 1891) (Thompson *et al.*, 1976: 110) (Syrphidae).
47. *Syrphus lautus*, p. 2 (%) (1893c: 29). "Tuxpango (Sumichraستي)". Box 17. Now in *Ocyptamus* (Thompson *et al.*, 1976: 21) (Syrphidae).
48. *Syrphus saussurii*, p. 2 (%) (1893c: 30). "Orizaba (Saussure)". Box 17. Now in *Allograpta* (Thompson *et al.*, 1976: 37) (Syrphidae).
49. *Sphaerophoria syrphica*, p. 2 (%) (1893c: 32, pl. II, figs. 5, 5a). "Orizaba (Sumichraستي)". Box 17. Now in *Allograpta* (Thompson *et al.*, 1976: 37) (Syrphidae).
50. *Melanostoma elegans*, p. 2 (% &) (1893c: 39, pl. II, fig. 21). "Orizaba (Sumichraستي)". Box 18. Now in *Ocyptamus* (Thompson *et al.*, 1976: 17) (Syrphidae).
51. *Melanostoma bellum*, p. 3 (&). (1893c: 38, pl. II, figs. 7, 7a). "Mexico, without locality". Box ?. Unchanged (Thompson *et al.*, 1976: 42) (Syrphidae).
52. *Mesogramma rombicum*, p. 3 (% &) (1893c: 46, pl. II, fig. 13). "Orizaba (Sumichraستي)". Box 18. Now *Toxomerus rombicus* (Giglio-Tos) (Thompson *et al.*, 1976: 54) (Syrphidae).
53. *Mesogramma diversum*, p. 3 (&) (1893c: 48, pl. II, fig. 13). "Mexico, without locality". Box 18. Now *Toxomerus diversus* (Giglio-Tos) (Thompson *et al.*, 1976: 50) (Syrphidae).
54. *Mesogramma ciliatum*, p. 3 (% &) (1893c: 50, pl. II, figs. 16, 16a-b). "Tuxpango (Smichraستي)". Box 18. Now *Toxomerus ciliatus* (Giglio-Tos) (Thompson *et al.*, 1976: 49) (Syrphidae).
55. *Mesogramma comma*, p. 4 (%) (1893c: 53). "Mexico (Sallé, Truqui)". Box 18. Now in *Toxomerus* (Thompson *et al.*, 1976: 49) (Syrphidae).
56. *Baccha spatulata*, p. 4 (&) (1893c: 56, pl. II, figs. 18, 18a). "Orizaba (Sumichraستي)". Box 18. Now *Ocyptamus spatulatus* (Giglio-Tos) (Thompson *et al.*, 1976: 27) (Syrphidae).
57. *Chilosia aurotecta*, p. 4 (% &) (1893c: 58, pl. II, fig. 22). "Orizaba (Sumichraستي)". Box 19. Now *Cheilosia aurotecta* Giglio-Tos (Thompson *et al.*, 1976: 68) (Syrphidae).
58. *Physocephala maxima*, p. 5 (&) (1893c: 64). "Mexico". Box 19. Unchanged (Papavero, 1971a: 9) (Conopidae).
59. *Conops ocellatus*, p. 5 (%). (1893c: 67, as synonym of *parvus* Williston). "Mexico (Sumichraستي)". Box 19. Now in *Physoconops* (Papavero, 1971a: 3) (Conopidae).

1892e:

60. *Berismyia fusca*, p. 7, pl. I, fig. 2 (%). "Mexico (Sallé)". Box. 7. Unchanged (James, 1973: 5) (Stratiomyidae).
61. *Hermetia flavipes* var. *aeneipennis*, p. 11 (&). "Mexico (Sumichraستي)". Box 8. Now *Hermetia aeneipennis* Giglio-Tos (James, 1973: 36) (Stratiomyidae).

62. *Chrysonotus aeneiventris*, p. 25 (% &). "Mexico, Orizaba (Sumichrast)". Box 9. Now a junior synonym of *Himantoloba flavopilosa* (Bigot, 1879) (James, 1973: 10) (Stratiomyidae).
63. *Copestylum distinctum*, p. 41, pl. I, fig. 15 (%). "Tehuacan (Sumichrast)". Box 15. Now a junior synonym of *Copestylum marginatum* (Say, 1830) (Thompson *et al.*, 1976: 78) (Syrphidae).
64. *Camerania macrocephala*, p. 45, pl. I, fig. 13 (%). "Mexico (Sallé)". Box ?. Now *Copestylum macrocephalum* (Giglio-Tos) (Thompson *et al.*, 1976: 78) (Syrphidae).
- 1893a (Giglio-Tos did not cite the localities in this paper, only in the 1894 paper):
65. *Hystriosphona* (sic) *bicolor*, p. 1 (%) (1894: 54, fig. 17). "Mexico (Truqui)". Box 24. Now in *Jurinodexia* (Guimarães, 1971: 30) (Tachinidae).
66. *Mochlosoma anale*, p. 1 (?sex) (1894: 55 (%)). "Mexico (Truqui)". Box ?. Unchanged (Guimarães, 1971: 30) (Tachinidae).
67. *Mochlosoma sericeum*, p. 2 (&) (1894: 56). "Mexico (Truqui)". Box 24. Unchanged (Guimarães, 1971: 31) (Tachinidae).
68. *Hystriodexia mellea*, p. 2 (%) (1894: 58). "Oaxaca (Sallé)". Box 24. Unchanged (Guimarães, 1971: 30) (Tachinidae).
69. *Hystriodexia aurea*, p. 2 (&) (1894: 59). "Mexico, without locality (Sumichrast)". Box 24. Now in *Sumichrastia* (Guimarães, 1971: 35) (Tachinidae).
70. *Scotiptera cyanea*, p. 2 (%) (1894: 61). "Angang(ueo) (Saussure)". Box 25. Unchanged (Guimarães, 1971: 35) (Tachinidae).
71. *Myioscotiptera cincta*, p. 2 (%) (1894: 62, fig. 14). "Solco". Box 25. Unchanged (Guimarães, 1971: 31) (Tachinidae).
72. *Microphthalmum sordida*, p. 3 (%) (1894: 63). "Mexico (Truqui), Toluca (Saussure, Boucard)". Box 25. Now a junior synonym of *Microphthalma obsoleta* (Wulp, 1890) (Guimarães, 1971: 24) (Tachinidae).
73. *Thelairodes basalis*, p. 3 (&) (1894: 65). "Mexico, no locality (Boucard)". Box 25. Now a junior synonym of *Cholomyia inaequipes* Bigot, 1884 (Guimarães, 1971: 106) (Tachinidae).
74. *Chaetona cruenta*, p. 3 (&) (1894: 65). "Mexico, no locality (Boucard)". Box 25. Unchanged (Guimarães, 1971: 105) (Tachinidae).
75. *Aporia elegans*, p. 3 (%) (1894: 66, fig. 15). "Tuxpango (Sumichrast)". Box 25. Now in *Paraporis* (Guimarães, 1971: 104) (Tachinidae).
76. *Calliphora praepes*, p. 3 (%) (1895:1). "Mexico (Saussure)". Box 26. An unplaced species of Calliphoridae (James, 1970: 16) (Calliphoridae).
77. *Lucilia praescia*, p. 4 (%) (1894: 3). "Tampico (Saussure)". Box?. Now a junior synonym of *Phaenicia purpurescens* (Walker, 1837) (James, 1970: 11) (Calliphoridae).
78. *Lucilia quieta*, p. 4 (&) (1894: 4). "Mexico, no locality". Box 26. An unplaced species of Calliphoridae (James, 1970: 16) (Calliphoridae).
79. *Mesembrinella bicolor*, p. 4 (%) (1895: 11, figs. 1, 1bis). "Chinantla, Oaxaca (Sumichrast)". Box 26. Now a synonym (and homonym) of *Mesembrinella bicolor* (Fabricius, 1805) (James, 1970: 4) (Calliphoridae).
80. *Hyadesimyia grisea*, p. 5 (&) (1895: 8, fig. 2). "Mexico, Oaxaca (Sallé)". Box 26. Now a junior synonym of *Synthesiomyia nudiseta* (Wulp, 1883) (Pont, 1972: 12) (Muscidae).

81. *Graphomyia mexicana*, p. 5 (?sex) (1895: 9 (%)). "Tuxpango (Sumichrast, Boucard)". Box 26. Unchanged but in *Graphomyia* (Pont, 1972: 28) (Muscidae).
82. *Cyrtoneurina parilis*, p. 6 (?sex) (1895: 14 (% &)). "Oaxaca (Sumichrast)". Box 27. Now in *Neomuscina* (Pont, 1972: 50) (Muscidae).
83. *Cyrtoneurina vecta*, p. 6 (?sex) (1895: 14, fig. 4 (%)). "Tuxpango (Sumichrast)". Box 27. Now in *Neomuscina* (Pont, 1972: 51) (Muscidae).
84. *Cyrtoneurina inuber*, p. 6 (%) (1895: 15). "Solco (Sumichrast)". Box 27. Unchanged (Pont, 1972: 53) (Muscidae).
85. *Cyrtoneurina gluta*, p. 6 (% &) (1895: 15). "Tuxpango (Sumichrast)". Box 27. Unchanged (Pont, 1972: 53) (Muscidae).
86. *Cyrtoneurina pellex*, p. 6 (&) (1895: 16). "Tuxpango (Sumichrast)". Box 27. Now a junior synonym of *Cyrtoneurina inuber* Giglio-Tos (Pont, 1972: 53) (Muscidae).
87. *Cyrtoneurina uber*, p. 7 (%) (1895: 17). "Tuxpango (Sumichrast)". Box 27. Unchanged (Pont, 1972: 54) (Muscidae).
88. *Leucomelina garrula*, p. 7 (%) (1895: 18). "Tuxpango (Sumichrast)". Box 27. Now in *Limnophora* (Pont, 1972: 28) (Muscidae).
89. *Leucomelina corvina*, p. 7 (?sex) (1895: 19 (% &)). "Mexico (sallé, Solco (Sumichrast)". Box 27. Now in *Limnophora* (Pont, 1972: 28) (Muscidae).
90. *Leucomelina strigata*, p. 7 (&) (1895: 19). "Tuxpango (Sumichrast)". Box 27. Now in *Limnophora* (Pont, 1972: 29) (Muscidae).
91. *Hyetodesia mulcata*, p. 7 (%) (1895: 20, fig. 5). "Mexico, no locality (Sumichrast)". Box 27. Now in *Helina* (Pont, 1972: 21) (Muscidae).
92. *Hyetodesia parsura*, p. 8 (%) (1895: 20). "Mexico, no locality (Truqui)". Box 27. Now in *Helina* (Pont, 1972: 22) (Muscidae).
93. *Hyetodesia abacta*, p. 8 (%) (1895: 21). "Mexico, no locality (Boucard)". Box 27. Now a junior synonym of *Helina laetifica* (Robineau-Desvoidy, 1830) (Pont, 1972: 21) (Muscidae).
94. *Hyetodesia abdita*, p. 8 (&) (1895: 21). "Mexico, no locality (Craveri)". Box 27. Now a junior synonym of *Helina laetifica* (Robineau-Desvoidy, 1830) (Pont, 1972: 21) (Muscidae).
95. *Hyetodesia insons*, p. 8 (%) (1895: 21). "Mexico, no locality (Boucard)". Box 27. Now in *Mydaea* (Pont, 1972: 25) (Muscidae).
96. *Spilogaster refusa*, p. 8 (% &) (1895: 22). "Tuxpango (Sumichrast)". Box 27. Now in *Helina* (Pont, 1972: 22) (Muscidae).
97. *Spilogaster abdita*, p. 8 (&) (1895: 23). "Mexico, no locality (Boucard)". Box 27. Now in *Bigotomyia* (Pont, 1972: 18) (Muscidae).
98. *Spilogaster etesia*, p. 8 (&) (1895: 23). "Tuxpango (Sumichrast)". Box 27. Now in *Helina* (Pont, 1972: 20) (Muscidae).
99. *Spilogaster meracula*, p. 9 (&) (1895: 24). "Mexico, no locality (Boucard)". Box 27. Now in *Pegoplata* (Pont, 1974: 9) (Anthomyiidae).
100. *Spilogaster pansa*, p. 9 (&) (1895: 24, fig. 3). "Mexico, no locality (Sumichrast)". Box 27. Now in *Mydaea* (Pont, 1972: 25) (Muscidae).
101. *Spilogaster sera*, p. 9 (%) (1895: 25). "Mexico (Truqui)". Box 27. Now in *Helina* (Pont, 1972: 23) (Muscidae).

102. *Spilogaster scabra*, p. 9 (% &) (1895: 25). "Mexico (Craveri)". Box 27. Now in *Dendrophaonia* (Pont, 1972: 13) (Muscidae).
103. *Brachiophyra effrons*, p. 9 (% &) (1895: 26, fig. 6). "Tuxpango (Sumichrast)". Box 27. Now a junior synonym of *Limnophora normata* Bigot, 1885 (Pont, 1972: 29) (Muscidae).
104. *Lasiops mexicana*, p. 10 (?sex) (1895: 28 (% &)). "Orizaba (Sumichrast, Boucard)". Box 27. Now a junior synonym of *Calythea crenata* (Bigot, 1885) (Pont, 1974: 2) (Anthomyiidae).
105. *Anthomyia trifilis*, p. 10 (?sex) (1895: 28 (% &)). "Coscom(atepec) (Sumichrast)". Box 27. Now a junior synonym of *Delia platyura* (Meigen, 1826) (Pont, 1974: 4) (Anthomyiidae).
106. *Chortophila stlemba*, p. 10 (&) (1895: 29). "Mexico (Craveri)". Box 27. Now in *Pegomya* (Pont, 1974: 9) (Anthomyiidae).
107. *Hylemyia levipes*, p. 10 (&) (1895: 30). "Mexico, no locality (Boucard)". Box 27. An unplaced Anthomyiidae (Pont, 1974: 10) (Anthomyiidae).
108. *Hylemyia abrepta*, p. 10 (&) (1895: 30). "Mexico, no locality". Box 27. An unplaced Anthomyiidae (Pont, 1974: 10) (Anthomyiidae).
109. *Hylemyia rhodina*, p. 10 (&) (1895: 31). "Tuxpango (Sumichrast)". Box 27. Now in *Pegoplata* (Pont, 1974: 9) (Anthomyiidae).
110. *Coenosia pacifera*, p. 11 (&) (1895: 31). "Tuxpango (Sumichrast)". Box 28. Now in *Bithoracochaeta* (Pont, 1972: 37) (Muscidae).
111. *Coenosia vitilis*, p. 11 (&) (1895: 32 (% &)). "Tuxpango (Sumichrast)". Box 28. Now in *Neodexiopsis* (Pont, 1972: 48) (Muscidae).
112. *Coenosia uvens*, p. 11 (&) (1895: 32 (% &)). "Mexico, no locality (Boucard)". Box 28. A junior synonym of *Bithoracochaeta leucoprocta* (Wiedemann, 1830) (Pont, 1972: 37) (Muscidae).
- 1893b (Also in this paper Giglio-Tos did not cite the localities, which were only given in his 1894 and 1895 papers):
113. *Gymnomma novum*, p. 1 (&) (1894: 12, fig. 2). "Mexico (Sumichrast)". Box 20. Unchanged (Guimarães, 1971: 67) (Tachinidae).
114. *Nemochaeta incerta*, p. 2 (%) (1894: 14, fig. 3). "Oaxaca (Sumichrast)". Box 21 (under *Tachinodes*). Now *Archytas incertus* (Giglio-Tos) (Guimarães, 1971: 50) (Tachinidae).
115. *Nemochaeta dubia*, p. 2 (%) (1894: 15, fig. 8). "Mexico, no locality". Box 21 (under *Tachinodes*). Now *Archytas dubius* (Giglio-Tos) (Guimarães, 1971: 49) (Tachinidae).
116. *Nemochaeta crucia*, p. 2 (?sex) (1894: 16 (% &)). "Mexico (Truqui), Tuxpango (Sumichrast), Huastec". Box 21 (under *Tachinodes*). Now *Archytas crucius* (Giglio-Tos) (Guimarães, 1971: 49) (Tachinidae).
117. *Nemochaeta pernox*, p. 2 (?sex) (1894: 16) "Mexico (Boucard), Orizaba (Sumichrast)". Box 21 (under *Tachinodes*). Now in *Archytas* (Guimarães, 1971: 51) (Tachinidae).
118. *Nemochaeta jurinoides*, p. 2 (%) (1894: 18, fig. 5). "Oaxaca (Sallé)". Box 21 (under *Tachinodes*). Now an unrecognized species of *Archytas* (Guimarães, 1971: 50) (Tachinidae).
119. *Nemochaeta? aberrans*, p. 2 (&) (1894: 18, fig. 9). "Meztillan". Box 21 (under *Tachinodes*). Now in *Archytas* (Guimarães, 1971: 48) (Tachinidae).

120. *Dejeania aurea*, p. 3 (%) (1894: 20). "Solco (Sumichrast)". Box?. Now in *Adejeania* (Guimarães, 1971: 46) (Tachinidae).
121. *Saundersia aurea*, p. 3 (?sex) (1894: 21 (% ?&)). "Mexico (Craveri), Angang(ueo)". Box 21. Now *Epalpus aureus* (Giglio-Tos) (Guimarães, 1971: 64) (Tachinidae).
122. *Saundersia picea*, p. 3 (?sex) (1894: 25, fig. 10 (% &)). "Mexico (Sumichrast)". Box 20. Now *Epalpus piceus* (Giglio-Tos) (Guimarães, 1971: 65) (Tachinidae).
123. *Belvosia bella*, p. 3 (&) (1894: 30, figs. 6, 6a). "Mexico, no locality". Box 22. Unchanged (Guimarães, 1971: 181) (Tachinidae).
124. *Chaetogena carbonaria*, p. 4 (%) (1894: 31, fig. 19). "Orizaba (Sumichrast)". Box 23. An unplaced species of Dexiinae (Guimarães, 1971: 122) (Tachinidae).
125. *Chaetogena cincta*, p. 4 (?sex) (1894: 32 (% &)). "Orizaba (Sumichrast)". Box 23. An unplaced Dexiinae (Guimarães, 1971: 122) (Tachinidae).
126. *Chaetogena gracilis*, p. 4 (&) (1894: 33, fig. 6). "Mexico, no locality (Boucard)". Box 23. An unplaced Dexiinae (Guimarães, 1971: 122) (Tachinidae).
127. *Acroglossa tessellata*, p. 5 (&) (1894: 35). "Oaxaca (Sumichrast)". Box 23. Now in *Chaetogaedia* (Guimarães, 1971: 178) (Tachinidae).
128. *Plagia mexicana*, p. 5 (&) (1894: 42, fig. 13). "Mexico, no locality (Boucard)". Box 23. Now a junior synonym of *Voria ruralis* (Fallén, 1810) (Guimarães, 1971: 93) (Tachinidae).
129. *Plagia dicta*, p. 5 (&) (1894: 42). "Mexico, no locality". Box 23. Now in *Voria* (Guimarães, 1971: 93) (Tachinidae).
130. *Tricholyga gracilens*, p. 5 (%) (1894: 39, fig. 16). "Mexico, no locality (Boucard)". Box 23. An unplaced Goniinae (Guimarães, 1971: 215) (Tachinidae).
131. *Tricholyga insita*, p. 5 (%) (1894: 39). "Mexico, no locality (Boucard)". Box 23. An unplaced Goniinae (Guimarães, 1971: 215) (Tachinidae).
132. *Blepharipoda mexicana*, p. 6 (&) (1894: 33, fig. 18). "Tehuacan". Box 23. Now in *Drino* (Guimarães, 1971: 189) (Tachinidae).
133. *Cyrtophloebe horrida*, p. 6 (%) (1894: 40). "Mexico, no locality (Sumichrast)". Box 23. Now in *Eucyrtophloebe* (Guimarães, 1971: 90) (Tachinidae).
134. *Masicera sesquiplea*, p. 6 (&) (1894: 43). "Mexico, no locality (Boucard)". Box 23. An unrecognized Tachinidae (Guimarães, 1971: 216) (Tachinidae).
135. *Masicera usta*, p. 6 (&) (1894: 44). "Mexico (Boucard)". Box 23. An unrecognized Tachinidae (Guimarães, 1971: 216) (Tachinidae).
136. *Masicera glauca*, p. 6 (&) (1894: 46). "Mexico, no locality (Boucard)". Box 23. An unrecognized Tachinidae (Guimarães, 1971: 216) (Tachinidae).
137. *Degeeria mexicana*, p. 7 (%) (1894: 46). "Orizaba (Sumichrast)". Box 23. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
138. *Degeeria dicax*, p. 7 (%) (1894: 49). "Mexico, no locality (Boucard)". Box 23. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
139. *Degeeria insecta*, p. 7 (?&) (1894: 48). "Mexico, no locality (Boucard)". Box 23. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
140. *Deggeria cruralis*, p. 7 (&) (1894: 49). "Mexico, no locality (Sumichrast)". Box 23. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
141. *Clistomorpha ochracea*, p. 7 (&) (1894: 53). "Mexico (Sumichrast)". Box 23. Without additional references (Tachinidae).

142. *Scatophaga reses*, p. 7 (?sex) (1895: 34 (% &)). "Mexico (Truqui)". Box 28. Unchanged (Albuquerque, 1984: 3) (Scatophagidae).
143. *Scatophaga coenosa*, p. 8 (1895: 34 (&)). "Popocatepetl, 3800 m". Box 28. Without references (Scatophagidae).
144. *Tauromyia pachyneura*, p. 8 (&) (1895: 37, figs. 7-8). "Mexico (Sallé)". Box 28. No more information.
145. *Helomyza iniens*, p. 8 (?sex) (1895: 35, figs. 9-10 (% &)). "Mexico, no locality (Sumichrast)". Box 28 Now in *Suillia* (Gill, 1968: 7) (Heleomyzidae).
146. *Sepedon praemiosus*, p. 8 (%) (1895: 38). "Morelia (Saussure)". Box 28. Unchanged (Knutson *et al.*, 1976: 10) (Sciomyzidae).
147. *Sapromyza stata*, p. 9 (&) (1895: 47). "Orizaba (Sumichrast)". Box 28. (Lauxaniidae).
148. *Sapromyza plagosa*, p. 9 (?sex) (1895: 47, as synonym of *geminata* Fabricius). "Mexico". Box 28. (Lauxaniidae).
149. *Sapromyza sonax*, p. 9 (?sex) (1895: 48). "Tuxpango (Sumichrast)". Box 28. (Lauxaniidae).
150. *Sapromyza vinnula*, p. 9 (?sex) (1895: 48). "Tuxpango (Sumichrast)". Box 28. (Lauxaniidae).
151. *Sapromyza urina*, p. 9 (?sex) (1895: 50, as *Physogenua*). "Mexico, Tuxpango (Sumichrast)". Box 28. (Lauxaniidae).
152. *Sapromyza innuba*, p. 9 (?sex) (1895: 49). "Mexico, no locality (Boucard)". Box 28. (Lauxaniidae).
153. *Euaresta audax*, p. 9 (&) (1895: 55, fig. 22). "Tuxpango (Sumichrast)". Box 29. A junior synonym of *Dyseuaresta mexicana* (Wiedemann, 1830) (Foote, 1967: 23) (Tephritidae).
154. *Blepharoneura regina*, p. 9 (%) (1895: 56, fig. 16). "Mexico, no locality". Box 28. Unchanged (Foote, 1967: 18) (Tephritidae).
155. *Blepharoneura saga*, p. 10 (%) (1895: 56, fig. 19). "Cordova (sic) (Saussure)". Box 28. A junior synonym of *Blepharoneura poecilosoma* (Schiner, 1868) (Foote, 1967: 18) (Tephritidae).
156. *Blepharoneura io*, p. 10 (%) (1895: 57, fig. 18). "Tuxpango (Sumichrast)". Box 29. Unchanged (Foote, 1967: 18) (Tephritidae).
157. *Blepharoneura diva*, p. 10 (&) (1895: 57, fig. 17). "Tuxpango (Sumichrast)". Box 29. Unchanged (Foote, 1967: 18) (Tephritidae).
158. *Blepharoneura splendida*, p. 10 (%) (1895: 58, fig. 20). "Mexico, no locality (Boucard)". Box 29. Now in *Hexachaeta* (Foote, 1967: 28) (Tephritidae).
159. *Acrotoxa mucida*, p. 10 (%) (1895: 58, fig. 21). "Mexico, no locality (Boucard)". Box 29. Now in *Polionota* (Foote, 1967: 36) (Tephritidae).
160. *Ostracocoelia mirabilis*, p. 11 (&) (1895: 44, fig. 13). "Tampico (Saussure)". Box 29. Unchanged (Foote, 1967: 32) (Tephritidae).
161. *Chaetocoelia palans*, p. 11 (%) (1895: 51, fig. 14). "Orizaba (Sumichrast)". Box 29. Without additional references.
162. *Molynocoelia lutea*, p. 11 (%) (1895: 60, fig. 23). "Tuxpango (Sumichrast)". Box 29. Unchanged (Foote, 1967: 31) (Tephritidae).

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163. *Platystoma mexicanum*, p. 12 (%) (1895: 46, fig. 24). "Tuxpango (Sumichrast)". Box 29. Now a synonym of *Automola atomaria* (Wiedemann, 1830) (Steyskal, 1968e: 2) (Richardiidae).
164. *Paragorgopis maculata*, p. 12 (&) (1895: 41, fig. 12). "Tuxpango (Sumichrast)". Box 29. Unchanged (Steyskal, 1968b: 7) (Otitidae).
165. *Oedopa elegans*, p. 12 (&) (1895: 42). "Oaxaca (Sallé)". Box 29. Unchanged (Steyskal, 1968b: 20) (Otitidae).
166. *Rhinotora diversa*, p. 13 (%) (1895: 43). "Tuxpango (Sumichrast)". Box 29. Now in *Neorhinotora* (Papavero, 1967c: 2) (Rhinotoridae).
167. *Bricinniella cyanea*, p. 13 (?%) (1895: 45). "Cuernavaca (Boucard)". Box 29. Now in *Senopterina* (Steyskal, 1968f: 2) (Platystomatidae).
168. *Chyliza enthea*, p. 13 (&) (1895: 64). "Tuxpango (Sumichrast)". Box 29. Unchanged (Prado, 1975a: 2) (Psilidae).
169. *Tanypeza mexicana*, p. 14 (?sex) (1895: 61 (% &)). "Orizaba; Tuxpango (Sumichrast)". Box 29. Now a junior synonym of *Neotanypeza* (*Neotanypeza*) *ornatipes* (Bigot, 1886) (Steyskal, 1967: 1) (Tanypezidae).
170. *Calobata plectilis*, p. 14 (&) (1895: 62). "Mexico, no locality". Now in *Rainieria* (*Rainieria*) (Steyskal, 1968a: 14) (Micropezidae).
171. *Drosophila excita*, p. 14 (&) (1895: 66). "Mexico, no locality (Boucard)". Box 29. Not included in Wheeler's 1970 catalogue (Drosophilidae).
172. *Chlorops unicornis*, p. 14 (?sex) (1895: 65). "Coscom(atepec) (Sumichrast); Puebla (Saussure)". Box 30. Unchanged (Sabrosky & Paganelli, 1984: 35) (Chloropidae).
- 1893c:
173. *Sphaerophoria willistoni*, p. 31, pl. II, figs. 6, 6a (% &). "Mexico, Orizaba (Sumichrast)". Box 17. Now in *Allograpta* (Thompson *et al.*, 1976: 38) (Syrphidae).
174. *Sphaerophoria forreri*, p. 32 (%). "Mexico, Ciudad in Durango; Solco; Cuernavaca. Box 17. Now in *Allograpta* (Thompson *et al.*, 1976: 35) (Syrphidae).
175. *Mesogramma bidentatum*, p. 49, pl. II, fig. 12 (% &). "Mexico: Acahuizotla, Chilpancingo, Tepetlapa, Medellin near Veracruz, Teapa in Tabasco, Orizaba (Sumichrast), Tampico". Box 18. Now in *Toxomerus* (Thompson *et al.*, 1976: 48) (Syrphidae).
- 1895:
176. *Pterocalla bella*, p. 39, fig. 11 (&). "Orizaba (Sumichrast, Boucard)". Box 29. Unchanged (Steyskal, 1968b: 8) (Otitidae).
177. *Chaetocoelia vergens*, p. 51, fig. 15 (%). Tuxpango (Sumichrast)". Box 29. Without additional references.

15. THE SPECIES DESCRIBED BY EWALD RÜBSAAMEN

Ewald Rübsaamen was born on May 20, 1857 in Haardt (now Weidenau, Province of Siegen), on the margins of the Sieg, as the son of Frans and Mathilde

Rübsaamen. His basic studies were made at the public school in Wiedenau and later at the Royal Gymnasium of Siegen, until the end of the "Ober Sekunda". The father, owner of a factory of instruments for mountain engineering and metallurgy, wanted him to study metallurgy, and for that reason, in 1875, Rübsaamen entered the Superior Technical School in Karlsruhe, to study mathematics. However, after 4 semesters, he gave up the idea and, with his parents' consent, decided to become professor of drawing, studying for that purpose at Hilchenbach (Siegen). In 1878, he became a teacher in a public school in Steinhauserberg, in Schwen, and during the fall of the same year he was the main teacher of that school. In the spring of 1879 he was granted the directorship of a private school in Siegen.

He learned by himself botany and zoology and became especially interested in plant-galls, very little known at that time, and in a special way in the dipterous family Cecidomyiidae. Upon his father's death, he and his family moved to Berlin, so he could finish his botanical studies. His mother stimulated him to complete those studies.

In Berlin he found a job at the "Pflanzenphysiologische Institut der Landwirtschaftlichen Hochschule". From 1892 to 1893 he frequented the "Königlich Kunstschule", and after two years passed examination to graduate. Natural history enthused him so much that he could not think of becoming a teacher any more, and he decided to become a researcher. He found a position as a volunteer in the Berliner Museum, with Professor Möbius. Later on, as a research assistant, in the section of entomology, he received materials collected in several regions around the world. In 1884 he started the preparation of several water-colors depicting the plant galls and their agents. A collection of 100 water-colors was exposed during the International Exposition of Gardens in Hamburg, in 1897, and he received the Great Golden Medal from the Government of Hamburg. He also received a Golden Medal from the "Vereins zur Förderung des Gartenbaues in den Kgl. preussischen Staates", by the occasion of the 75th anniversary and jubilee of that Society.

From 1897 on, he occupied several important positions in the *Phylloxera* commission. He published some interesting papers on zoocecidae, some with beautiful colored plates.

Towards the end of his life he suffered much from heart and lung diseases, remaining sick for many years; he also suffered from dropsy. In 1912, he received the title of Professor, through the Ministry of Agriculture, and was elected in 1917 a member of the *Leopoldinischen-Carolinischen Akademie der Wissenschaften* in Halle.

Rübsaamen died on March 17, 1919, in Metternich bei Koblenz (Schaffnit, 1927; Papavero, 1973: 327-328).

Rübsaamen published only seven papers dealing with Neotropical Cecidomyiidae and Sciaridae (1892, 1894, 1895, 1905, 1908a, 1908b, 1916). Only two Mexican species, both Sciaridae, were described by him:

1. *Sciara nigra*, 1884: 26, pl. 1, fig. 7, pl. 3, figs. 12, 19, 22. "Mexico, Oaxaca". Types: Berliner Museum. Now in *Odontosciara* (Amorim, 1992: 63) (Sciaridae).
2. *Sciara striata*, 1894: 37, pl. 2, fig. 12, pl. 3, fig. 4. "Mexico, Oaxaca". Type: Berliner Museum. Now in *Pseudosciara* (Amorim, 1992: 65) (Sciaridae).

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LITERATURE CITED

- Adler, K.** (Ed.). 1989. Contributions to the history of herpetology. (Society for the Study of Amphibians and Reptiles, Oxford, Ohio). *Contrib. Herpetol.*, 5:1-202.
- Albuquerque, D. O.** 1984. Family Scatophagidae, Nº 96b: 1-4. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Aldrich, J. M.** 1905. A catalogue of North American Diptera. *Smithson. Misc. Collns.*, 46 (1444): 1-680.
- Alexander, C. P.** 1969. Baron Osten Sacken and his influence on American dipterology. *Annu. Rev. Entomol.*, 14: 1-10, portrait.
- Alexander, C. P. & M. M. Alexander.** 1970. Family Tipulidae, Nº 4: 1-259. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Amorim, D. de S.** 1992. A catalogue of the family Sciaridae (Diptera) of the Americas south of the United States. *Rvta. Bras. Entomol.*, 36(1): 55-77.
- Anonymous,** 1893. The late Professor Westwood. *Canad. Entomol.*, 25(2): 261-262, portrait.
- _____. 1895. Eugène Dugès, biographical note. *Zool. Anz.*, 18:260.
- _____. 1896. Auguste Sallé, biographical note. *Trans. Entomol. Soc. London (Proc.)* 1896: xciii-xciv.
- Artigas, J. N., N. Papavero & A. L. Serra.** 1991. The American genera of Asilidae (Diptera): Keys for identification with an atlas of female spermathecae and other morphological details. VI. Tribe Atomosiini Hermann (Laphriinae), with descriptions of two new genera and three new species, and a catalogue of the Neotropical species. *Gayana, Zool.*, 55(1): 53-85, 104 pp.

- Austen, E. E.** 1895. Further notes on *Cutiterebra* (sic): On the identity of certain species described by the late Bracy Clark. *Ann. Mag. natl. Hist.*, (6) 16: 147-155.
- _____. 1933. New and little known species of *Cuterebra* Clark and *Bogeria* Austen (Diptera: Family Oestridae). *Proc. Zool. Soc. London*, 1933: 699-713, 1 pl.
- Barber, H. S.** 1928. Thomas Say's unrecorded journey to Mexico. *Ent. News*, 39: 15-20.
- Barnhart, J. H.** 1927. Jean Jules Linden collecting localities. *J. New York bot. Gard.*, 28(333): 210-211.
- _____. 1965. *Biographical notes upon botanists*. 3 vols. G. K. Hall & Co., Boston.
- Beck, H.** 1959-1961. *Alexander von Humboldt*. 2 vols. Franz Steiner, Wiesbaden.
- Bellardi, L.** 1859. *Saggio di Ditterologia Messicana. Parte I*, 80 pp., 2 pls. Torino. (Also published in *Mem. r. Accad. Sci. Torino* 19: 201-277, 2 pls., 1861).
- _____. 1861. *Saggio di Ditterologia Messicana. Parte II*, 99 pp., 2 pls., Torino. (Also published in *Mem. r. Accad. Sci. Torino* 21: 103-199, 2 pls., 1864).
- _____. 1862. *Saggio di Ditterologia Messicana. Appendice*, 28 pp., 1 pl., Torino. (Also published in *Mem. r. Accad. Sci. Torino* 21: 200-225, 1 pl., 1864).
- Belkin, J. N.** 1968. Mosquitoes studies. IX. The type specimens of New World mosquitoes in European museums. *Contrib. Amer. Entomol. Inst.*, 3(4): 1-69.
- Bernardi, N.** 1968. Family Nemestrinidae, N° 36: 1-12. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Bezzi, M.** 1908a. Camillo Rondani, zu seinen 100 jährigen Geburtstage. *Entomol. Wochenblatt*, 25: 1-4, portrait.
- _____. 1908b. In memoria di Camillo Rondani nel primo centenario della sua nascita. *Boll. Mus. Zool. Anat. comp. r. Univ. Torino*, 23 (592):1-10, portrait.
- Bigot, J. M. F.** 1857a. Dípteros, pp. 328-349, pl. 20 of insects and crustaceans bound in vol. 0, In: Sagra, R. de la, (Ed.). *Historia física, política y natural de la isla de Cuba*, 7: 371 pp. Paris, "1856". (This portion on Diptera was also published as pp. 738-829 of the French edition, in Paris, 829 pp., 1857. The French and Spanish editions were said to have been issued simultaneously, the latter a translation of the former).
- Bigot, J. M. F.** 1857b. Diptères nouveaux provenant du Chili. *Ann. Soc. Entomol. France*, (3) 5: 277-308.
- _____. 1859. Diptërorum aliquot nova genera. *Revue Mag. Zool.* (2) 11: 305-315, pl. 11.
- _____. 1875a. Diptères nouveaux ou peu connus. 4e. partie. V. Asilides exotiques nouveaux. *Ann. Soc. Entomol. France*, 5(5): 237-248.
- _____. 1875b. Diptères nouveaux ou peu connus. 5e. partie. VI. Espèces nouvelles des genres *Sphixea* (Rondani) et *Volucella* (auctorum). *Ann. Soc. Entomol. France*, 5(5): 469-482.
- _____. 1875c. Diptères nouveaux ou peu connus. 5e. partie. VII. Espèces nouvelles du genre *Cyphomyia*. *Ann. Soc. Entomol. France*, 5(5): 483-488.
- _____. 1876a. Diptères nouveaux ou peu connus. 6e. partie. VIII. Curie des Phasides (Phasidae, mihi). Genres *Trichopoda* (Macq.) et *Bogosia* (Rond.). *Ann. Soc. Entomol. France*, (5) 6: 389-400.
- _____. 1876b. Diagnose d'un nouveau genre de Diptères: *Pharanthrax*. *Ann. Soc. Entomol. France*, (5) 6 (Bull.): lxvi.

- _____. 1876c. (Diagnoses de quatre Diptères exotiques nouveaux: *Ommatius* et *Emphysomera*). *Ann. Soc. Entomol. France*, (5) 6 (Bull.): lxxxv-lxxxvi.
- _____. 1877a. Diptères nouveaux ou peu connus. 7e. partie. IX. Genre *Somomyia* (Rondani), *Lucilia* (Rob.-Desv.), *Calliphora*, *Phormia*, *Chrysomyia* (id.). *Ann. Soc. Entomol. France*,(5)7: 35-48.
- _____. 1877b. Diptères nouveaux ou peu connus. 8e. partie. X. Genre *Somomyia* (Rondani), *Calliphora*, *Melinda*, *Mufetia*, *Lucilia*, *Chrysomyia* (alias *Microchrysa* Rond.) Robineau-Desvoidy. *Ann. Soc. Entomol. France*, (5) 7: 243-259.
- _____. 1877c. Genus novum *Ortalidarum* (Macq. Schin. Et auctor) vel *Tanipezidarum* (Rond.) Vel *Trypetidarum* (J. Bigot). *Ann. Soc. Entomol. France*, (5) 7: xxvi-xxvii.
- _____. 1878a. Diptères nouveaux ou peu connus. 9e. partie. XII. Genre *Phumosia*, *Cosmina*, *Ochromyia* et *Curtonevra*. *Ann. Soc. Entomol. France*,(5)8: 31-40.
- _____. 1878b. Diptères nouveaux ou peu connus. 9e. partie. XIII. Genres *Ocyptera* (Latr.), *Ocypterula*, *Exogaster* (Rond.). *Ann. Soc. Entomol. France*,(5)8: 40-47.
- _____. 1878c. Diptères nouveaux ou peu connus. 9e. partie. XIV. Notes et mélanges. *Ann. Soc. Entomol. France*, (5) 8: 48.
- _____. 1878d. Diptères nouveaux ou peu connus. 10e. partie. XV. Tribu des Asilidi, curies des Laphridae et Dasygogonidae. *Ann. Soc. Entomol. France*,(5)8: 213-240, 401-446.
- _____. 1879a. Diptères nouveaux ou peu connus. 11e. partie. XVI. Curiae *Xylophagidarum* et *Stratiomyidarum* (Bigot). *Ann. Soc. Entomol. France*,(5)9: 183-234.
- _____. 1879b. (Diagnoses de trois genres nouveaux de Diptères). *Ann. Soc. Entomol. France*,(5) 9(Bull.): lxvii-lxviii.
- _____. 1880a. Diptères nouveaux ou peu connus. 12e. partie. XVIII. Genres *Plagiocera* (Macq.), *Formosia* (Guérin) et *Rutilia* (Rob.-Desv.). *Ann. Soc. Entomol. France*, (5)10: 85-89.
- _____. 1880b. Diptères nouveaux ou peu connus. 14e. partie. XXI. Syrphidi (mihi)-Genre *Eristalis* (Fabr.). *Ann. Soc. Entomol. France*,(5)10: 213-230.
- _____. 1880c. (Description d'un genre nouveau et de nouvelles espèces d'Acanthomeridae Weidemann (sic)). *Ann. Soc. Entomol. France*, (5) 10 (Bull.): v-vi.
- _____. 1880d. (Diagnoses de trois genres nouveaux des Diptères). *Ann. Soc. Entomol. France*, (5) 10(Bull.): xlvi-xlviii.
- _____. 1880e. (Diagnose d'un nouveau genre de Diptères de la tribu Tachinidi). *Ann. Soc. Entomol. France*,(5)10 (Bull.): liii.
- _____. 1881. Diptères nouveaux ou peu connus. 16e. partie. XXIII. Tribus *Nemestrinidorum*. *Ann. Soc. Entomol. France*, (6)1: 13-21.
- _____. 1882a. Diptères nouveaux ou peu connus. 18e. partie. XXVIII. Acanthomeridae (Wiedemann, Dipt. Exot.). *Ann. Soc. Entomol. France*,(6)1 (1881): 453-460.
- _____. 1882b. Diptères nouveaux ou peu connus. 19e. partie. XXX. Genre *Ctenostylum*. *Ann. Soc. Entomol. France*,(6)2: 21-22.
- _____. 1882c. (Descriptions de quatre genres nouveaux de la tribu des Syrphides (Syrphidae, auctorum), ainsi que celles de deux nouvelles espèces). *Ann. Soc. Entomol. France*,(6)2 (Bull.): lxvii-lxviii.

- _____. 1882d. (Description de deux nouvelles espèces de diptères propres à la Californie, dont l'une est le type d'un genre nouveau). *Ann. Soc. Entomol. France*,(6)2 (Bull.): xci-xcii.
- _____. 1882e. (Diagnoses de genres et espèces inédits de Syrphides 1re. partie; 2e. partie; 3e. partie). *Ann. Soc. Entomol. France*,(6)2 (Bull.): cxiv-cxv; cxx-cxxi; cxxviii-cxxix.
- _____. 1883a. Diptères nouveaux ou peu connus. 20e. partie. XXXI. Genres *Volucella* (Geoffr., Hist. des Insectes, 1764) et *Phalachromyia* (Rondani, Esame d. var. spec. d'Insetti Ditteri Brasiliani, Torino, 1848). *Ann. Soc. Entomol. France*,(6)3: 61-88.
- _____. 1883b. Diptères nouveaux ou peu connus. 21e. partie. XXXII. Syrphidi (1e. partie). *Ann. Soc. Entomol. France*, (6)3: 221-258.
- _____. 1883c. Diptères nouveaux ou peu connus. 22e. partie. XXXII. Syrphidi (2e. partie). Espèces nouvelles, n° I. *Ann. Soc. Entomol. France*, (6) 3: 315-356.
- _____. 1883d. Diptères nouveaux ou peu connus. 23e. partie. XXXII. Syrphidi (2e. partie). Espèces nouvelles, n° II. *Ann. Soc. Entomol. France*, (6)3: 535-560.
- _____. 1883e. (Description d'un nouveau genre de diptères de la tribu des Syrphidae). *Ann. Soc. ent. France* (6) 3(Bull.): xx-xxi.
- _____. 1883f. (Diagnose d'un nouveau genre et d'une nouvelle espèce de diptères de la tribu des Antomyzides /sic/). *Ann. Soc. ent. France* (6) 3(Bull.): xxx.
- _____. 1884a. Diptères nouveaux ou peu connus. 4e. partie. XXXII. Syrphidi (2e. partie). Espèces nouvelles, no. III. *Ann. Soc. ent. France* (6) 4: 73-116.
- _____. 1884b. (Diagnoses d'un genre et d'une espèce de Diptères). *Ann. Soc. ent. France* (6) 3(Bull.) (1883): cviii-cix.
- _____. 1884c. (Descriptions d'un nouveau genre et d'une nouvelle espèce de diptères de la famille des Ortalidae). *Ann. Soc. ent. France* (6) 4(Bull.): xxix.
- _____. 1884d. (Descriptions d'un nouveau genre et d'une nouvelle espèce de diptères de la famille des Dexidae). *Ann. Soc. ent. France* (6) 4(Bull.): xxxvii.
- _____. 1885a. Diptères nouveaux ou peu connus. 25e. partie. XXXIII. Anthomyzides nouvelles. *Ann. Soc. ent. France* (6) 4 (1884): 263-304.
- _____. 1885b. Diptères nouveaux ou peu connus. 27e. partie. XXXV. Famille des Anomalocerati (mihi) (Coriacea, Pupipara, Nycteribidae, auctor). *Ann. Soc. ent. France* (6) 5: 225-246.
- _____. 1885c. (Diagnoses de deux genres nouveaux de diptères du groupe des Déxiaires). *Ann. Soc. ent. France* (6) 5(Bull.): xxv-xxvi.
- _____. 1885d. (Diagnoses de deux genres nouveaux de diptères appartenant à la famille des Ortalides). *Ann. Soc. ent. France* (6) 5(Bull.): clxv-clxvi.
- _____. 1885e. (Description d'un nouveau genre de diptères). *Ann. Soc. ent. France* (6) 5(Bull.): clxxiii-clxxiv.
- _____. 1885f. Diptères nouveaux ou peu connus. 28e. partie. XXXVI. Syrphidi. Addenda au mémoire publié dans les Annales de la Société Entomologique de France (Années 1883-1884). *Ann. Soc. ent. France* (6) 5: 24-252.
- _____. 1886a. Diptères nouveaux ou peu connus. 29e. partie. XXXVII, 1er. Essai d'une classification synoptique du grupe des Tanypezidi (mihi) et descriptions de genres et d'espèces inédits; 2e. (Suite). *Ann. Soc. ent. France* (6) 6: 287-302, 369-392.

- _____. 1886b. (Diagnoses nouvelles d'un genre et d'une espèce de l'ordre des Diptères). *Ann. Soc. ent. France* (6) 6 (Bull.): ciii-civ.
- _____. 1887a. Diptères nouveaux ou peu connus. 31e. partie XXXIX. Descriptions de nouvelles espèces de Stratiomyidi et de Conopsidi. *Ann. Soc. ent. France* (6) 7: 20-46.
- _____. 1887b. Diptères nouveaux ou peu connus. 32e. partie. XL. Descriptions de nouvelles espèces de Myopidi. *Ann. Soc. ent. France* (6) 7: 203-208.
- _____. 1887c. (Diagnoses de quelques espèces nouvelles de diptères). *Ann. Soc. ent. France* (6) 7(Bull.): cxxxix-cxlii.
- _____. 1887d. (Diagnoses abrégées de quelques diptères nouveaux, provenant de l'Amérique du Nord). *Ann. Soc. ent. France* (6) 7(Bull.): clxxx-clxxxii.
- _____. 1888a. Diptères, pp. 1-45, pls. 1-4, in: Ministère de la Marine et de l'Instruction Publique /de France/, Mission scientifique du Cap Horn, 1882-1883, 6 (Zoologie), 2me. Partie. Paris., '1891'.
- _____. 1888b. Diptères nouveaux ou peu connus. 33e. partie. XLI. Tachinidae. *Ann. Soc. ent. France* (6) 8: 77-101.
- _____. 1888c. Diptères nouveaux ou peu connus. 34e. partie. XLII. Diagnoses de nouvelles espèces. *Ann. Soc. ent. France* (6) 8: 253-270.
- _____. 1888d. (Notes critiques sur les Diptères). *Ann. Soc. ent. France* (6) 8(Bull.): xxiv.
- _____. 1888e. (Diagnoses d'espèces nouvelles de Dolichopodi). *Ann. Soc. ent. France* (6) 8(Bull.): xxix-xxx.
- _____. 1889a. Diptères nouveaux ou peu connus. 34e. partie. XLII. Empidi. *Ann. Soc. ent. France* (6) 9: 111-134.
- _____. 1889b. Diptères nouveaux ou peu connus. 35e. partie. XLIII. Cyrtidi, XLIV. Therevidi. *Ann. Soc. ent. France* (6) 9: 313-320, 321-328.
- _____. 1889c. (Novum genus dipterorum ex Trypetidis, genus *Chetostomae* (Rondani) sat vicium). *Ann. Soc. ent. France* (6) 9(Bull.): xxix-xxx.
- _____. 1889d. (Change of generic name). *Ann. Soc. ent. France* (6) 9(Bull.): xciii.
- _____. 1889e. (Note on relationships of *Archilestes* and synonymy; Change of generic name). *Ann. Soc. ent. France* (6) 9(Bull.): clxxxiii.
- _____. 1890a. Diptères nouveaux ou peu connus. 46e. partie. XLV. Dolichopi. Essai d'une classification générale. *Ann. Soc. ent. France* (6) 10: 261-296.
- _____. 1890b. (Change of generic name). *Wien. Ent. Ztg.* 9:96.
- _____. 1892a. Diptères nouveaux ou peu connus. 37e. partie. XLVI. Bombylidi (mihi). *Ann. Soc. ent. France* 61: 321-376.
- _____. 1892b. Descriptions de diptères nouveaux. Tabanidi. *Mém. Soc. zool. France* 5: 602-691.
- _____. 1892c. Nova genera dipterorum. *Wien. Ent. Ztg.* 11: 161-162.
- _____. 1892d. Description d'une espèce nouvelle de diptères parasite de Costa Rica. *The Hummingbird* 2(7): 49.
- Bilimek, D.** 1867. Fauna der Grotte Cacahuamilpa in Mexiko. *Verh. Zool.-bot. Ges. Wien* 17 (Abhandl.): 901-908.
- Binford, L. C.** 1989. A distributional survey of the birds of the Mexican State of Oaxaca. (American Ornithological Union, Washington, D.C.). *Ornithol. Mon.*, 43:1-418.

- Boucard, A.** 1867. *Catalogue des collections d'histoire naturelle récoltées au Mexique par M. A. Boucard*, 16 pp. Typ. Oberthur et fils, Rennes.
- _____. 1877. *Liste de coléoptères en vente chez A. Boucard*, 27 + 1 pp. Typ. Oberthur et fils, Rennes.
- _____. 1878a. *Notice sur les objets exposés par la République de Guatemala et par Adolphe Boucard à l'Exposition Universelle de Paris*, 32 pp.
- _____. 1878b. On birds collected in Costa Rica. *Proc. zool. Soc. London 1878*: 37.
- _____. 1884. Notice sur François Sumchrast. *Bull. Soc. zool. France* 9: 305-312.
- _____. 1894. *Travels of a naturalist. A record of adventures, discoveries, history and customs of Americans and Indians, habits and descriptions of animals, chiefly made in North America, California, Mexico, Central America, Columbia, Chili, etc., during the last forty years*, viii + ii + 204 pp. Pardy & Sons, Printers, Bournemouth, London.
- Brauer, F. M.** 1860. Ueber den sogenannten *Oestrus hominis* und die oftmals berichteten Verirrungen von Oestriden der Säugethiere zum Menschen. *Verh. Zool.-bot. Ges. Wien*, 10:57-72.
- _____. 1861. Ueber die Larven der Gattung *Cuterebra* Clark. *Verh. Zool.-bot. Ges. Wien*, 10 (1860): 777-786.
- _____. 1863a. *Rogenhoferia*, eine neue Gattung aus der Familie der Oestriden. *Verh. Zool.-bot. Ges. Wien*, 13: 325-326.
- _____. 1863b. *Monographie der Oestriden*, 8+6+293 pp., 10 pls. K. K. Zoologischen-Botanischen Gesellschaft, Wien.
- _____. 1863c. Beiträge zur Kenntniss der Dipteren. II. *Dermatobia* Larven aus *Felis concolor*. *Verh. Zool.-bot. Ges. Wien*, 14:894.
- _____. 1882. Die Zweiflüger des Kaiserlinchen Museums zu Wien. II. *Denkschr. K. Akad. Wiss. Wien* (Math.-naturwiss. Cl.), 44(1): 59-110, pls. 1-2 (Also separately published, 54 pp., 2 pls., Wien, 1882).
- _____. 1883. Die Zweiflüger des kaiserlinchen Museums zu Wien. III. *Denkschr. K. Akad. Wiss. Wien* (Math.-naturwiss. Cl.), 47: 1-100, 5 pls. (Also separately published, 100 pp., 5 pls., Wien, 1883).
- _____. 1885. Systematische-zoologische Studien. *Sitzber. K. Akad. Wiss. Wien* (Math.-naturwiss. Cl.) (Abt. 1) 91: 237-413, 1 pl.
- _____. 1887. Nachtrage zur Monographie der Oestriden. II. Zur Charakteristik und Verwandtschaft der Oestridengruppen im Larven und vollkommenen Zuständen. *Wien. Ent. Ztg.*, 6: 4-16.
- _____. 1895. Bemerkungen zu einigen neuen Gattungen der Muscarien und Deutung einiger Original-Exemplaren. *Sitzber. K. Akad. Wiss. Wien* (Math.-naturwiss. Cl.), (Abt. 1) 109: 582-604, 8 figs.
- _____. 1896. Beiträge zur Kenntniss aussereuropäischer Oestriden. *Denkschr. K. Akad. Wiss. Wien* (Math.-naturwiss. Cl.), 64: 260-282, 1 pl.
- _____. 1897-1899. Bemerkungen zur Kenntniss der Muscaris Schizometopa. Bemerkungen zu den Original-Exemplaren der von Bigot, Macquart und Robineau-Desvoidy beschreiben Muscaria Schizometopa aus der Sammlung des Herrn G. H. Verral, I-III. *Sitzber. K. Akad. Wiss. Wien* (Math.-naturwiss. Cl.) (Abt. 1), 106:329-377, 1897; 107: 493-546, 1898; 108: 495-529, 1899.
- _____. 1901. Nekrolog Jos. Mik's. *Wien. Ent. Ztg.*, 20:1-8.

- Brauer, F. M. & J. E. von Bergenstamm**, 1889. Die Zweiflüger des Kaiserlichen Museums zu Wien. IV. Vorarbeiten zu einer Monographie der Muscaria Schizometopa (exclusive Anthomyidae). Pars. I. *Denkschr. K. Akad. Wiss. Wien* (Math.-naturwiss. Cl.), 56(1): 69-180, 11 pls. (Also published separately, 1889, 112 pp., Wien).
- _____. 1891. Die Zweiflüger des Kaiserlichen Museums zu Wien. V. Vorarbeiten zu einer Monographie der Muscaria Schizometopa (exclusive Anthomyidae). Pars. II. *Denkschr. K. Akad. Wiss. Wien* (Math.-naturwiss. Cl.), 58: 305-446. (Also published separately, 1891, 142 pp., Wien).
- _____. 1893. Die Zweiflüger des Kaiserlichen Museums zu Wien. VI. Vorarbeiten zu einer Monographie der Muscaria Schizometopa (exclusive Anthomyidae). Pars. III. *Denkschr. K. Akad. Wiss. Wien* (Math.-naturwiss. Cl.), 60: 89-240. (Also published separately, 1893, 152 pp., Wien).
- _____. 1894. Die Zweiflüger des Kaiserlichen Museums zu Wien. VII. Vorarbeiten zu einer Monographie der Muscaria Schizometopa (exclusive Anthomyidae). Pars. IV, Pt. 7, 88 pp., (Also published in the *Denkschr. K. Akad. Wiss. Wien* (Math.-naturwiss. Cl.), 61: 537-624, 1895).
- Breedlove, D. E.** 1981. Introduction to the flora of Chiapas. Part 1, In: Breedlove, D. E. (Ed.) *Flora of Chiapas*. California Academy of Sciences, San Francisco.
- Bullock, W.** 1824. *Six months residence and travels in Mexico. Containing remarks on the present state of New Spain, its natural productions, state of society, manufactures, trade, agriculture, and antiquities*. John Murray, London.
- Carriker, M. A., Jr.** 1910. An annotated list of the birds of Costa Rica, including Cocos Islands. *Annls Carnegie Mus.* 6: 314-970, 1 map.
- Chardón, C. E.** 1949. *Los naturalistas en la América Latina. Tomo I. Los siglos XVI, XVII y XVIII. Alejandro Humboldt, Carlos Darwin. La Española, Cuba y Puerto Rico*. Secretaría de Estado de Agricultura, Pecuaria y Colonización, Editora del Caribe, c. por A. Ciudad Trujillo, R. Dominicana.
- Clark, B.** 1797. Observations on the genus *Oestrus*. *Trans. Linn. Soc. (Zool.)*, 3: 289-329, pl. 23 (coloured).
- _____. 1815. *An Essay on the Bots of Horses and other Animals*, 72 pp., 2 col. pls., London.
- _____. 1815 (or 1816?). *Discovery of the Fly of the White Bot*. Supplementary Sheet, (unnumbered), 4 pp., London.
- _____. 1827. On the insect called Oistros by the ancients, and of the true species intended by them under this appellation. *Trans. Linn. Soc. (Zool.)*, 15(2): 402-411.
- _____. 1838. Note on *Oestrus equi*; the bot of horses. *Entomol. Mag.*, 5: 336-338.
- _____. 1841. An appendix or supplement to a treatise on the Oestri and Cuterebrae of various animals (secretary's summary). *Proc. Linn. Soc. (Zool.)*, 1: 99, 100 (meetings of April 6th and 20th, 1841).
- _____. 1843. An appendix or supplement to a treatise on the Oestri and Cuterebrae of various animals. *Trans. Linn. Soc. (Zool.)*, 19(2): 81-94.
- _____. 1847. Note on the Bot infesting stag. *Zoologist*, 5: 1569-1570, 3 figs.
- _____. 1848. Addenda (to Clark, 1843), 5 figs. London.
- _____. 1857a. The supposed new *Oestrus*. *Zoologist*, 15: 5542.
- _____. 1857b. Further note on the supposed new *Oestrus*. *Zoologist*, 15: 5630.

- _____. 1857c. The tsetse of Africa identified with *Oestrus bovis*. *Zoologist*, 15: 5720-5721.
- Coats, A.M.** 1970. *The plant hunters, being a history of the horticultural pioneers, their guests, and their discoveries, from the Renaissance to the Twentieth Century*. McGraw-Hill Book Co., New York.
- Conci, C.** 1975. Repertorio delle biografie e bibliografie degli scrittori e cultori italiani di Entomologia. *Mem. Soc. ent. ital.*, Genova 48 (1969): 817-1069.
- Costa, A.** 1866. Acquisite fatti durante l'anno 1863. *Annuario Mus. Zool. Univ. Napoli*, 3 (1863):13-41.
- Dalmat, H. T.** 1955. The Black Flies (Diptera, Simuliidae) of Guatemala and their role as vectors of Onchocerciasis. *Smith. Misc. Coll.*, 125: 1-425.
- Duellman, W. E.**, 1961. The amphibians and reptiles of Michoacan, Mexico. *Univ. Kans. Publs. Mus. nat. Hist.*, 15(1):1-148.
- Dugès, A.** 1887. *Adelophis copei*, *Argas sanchesii* y *Ornithomyia villadae*. *La Naturaleza*, México (2) 1(1):18-21, pl. 3.
- Essig, E. O.** 1931. *A history of entomology*, vii + 1029 pp., 263 figs. The MacMillan Co., New York.
- Ewan, J.** 1955. San Francisco as a Mecca for Nineteenth Century naturalists, pp. 1-63. In: California Academy of Sciences (Ed.). *A Century of progress in the natural sciences, 1853-1953*. San Francisco.
- Fairchild, G. B.** 1971. Family Tabanidae. N° 28: 1-163. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States* Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Fairchild, G. B. & J. F. Burger.** 1994. A catalog of the Tabanidae (Diptera) of the Americas South of the United States. *Memoirs, Amer. Ent. Inst.*, 55: 1-249.
- Farber, P. L.** 1982. *The emergence of ornithology as a scientific discipline, 1760-1850*. D. Riedel, Dordrecht, Boston/London.
- Foote, R. H.** 1967. Family Tephritidae (Trypetidae, Trupaneidae). N° 57 : 1-91. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Gerstaecker, C. E. A.** 1856. Beitrag zur Kenntniss der Henopier. *Stettin. Ent. Ztg.*, 17: 339-361.
- _____. 1857. Beiträge zur Kenntniss exotischer Stratiomyiden. *Linnaea ent.*, 11: 261-350, pl. III.
- _____. 1860. Beschreibung einiger ausgezeichnete neuen Dipteren aus den Familie Muscariae. *Stettin. Ent. Ztg.*, 21: 163-208, pl. III.
- _____. 1868a. Ueber von Dr. Hensel beobachtete Oestrident-Larven bei Säugethiere und Menschen in Süd-Amerika. *SitzBer. Ges. naturf. Freunde Berlin*, 1867: 31-32.
- _____. 1868b. Sustematische Uebersicht des bis jetzt bekannt gewordene Mydaiden (*Mydasii* Latr.). *Stettin. Ent. Ztg.*, 29: 65-103, pl. 1.
- Giglio-Tos, E.** 1890. Nove specie di ditteri del Museo Zoologico di Torino. *Boll. Mus. Zool. Anat. comp. r. Univ. Torino*, 5 (84): 1-4.
- _____. 1891a. Nove specie di ditteri del Museo Zoologico di Torino. Parte V. *Boll. Mus. Zool. Anat. comp. r. Univ. Torino*, 6 (102): 1-4.

- _____. 1891b. Diagnosi di quattro nuovi generi di ditteri. *Boll. Mus. Zool. Anat. comp. r. Univ. Torino*, 6 (108): 1-6.
- _____. 1892a. Un nuovo genere di Sirfidi: *Camerania*. *Boll. Mus. Zool. Anat. comp. r. Univ. Torino*, 7 (117): 1-4.
- _____. 1892b. Sui due generi di Sirfidi: *Rhopalosyrphus* ed *Omegasyrphus*. *Boll. Mus. Zool. Anat. comp. r. Univ. Torino*, 7 (118): 1-3.
- _____. 1892c. Diagnosi di nuove specie di ditteri. VI. Sirfidi del Messico. *Boll. Mus. Zool. Anat. comp. r. Univ. Torino*, 7 (123): 1-7.
- _____. 1892d. Diagnosi di nuove specie di ditteri. VII. Sirfidi del Messico. *Boll. Mus. Zool. Anat. comp. r. Univ. Torino*, 7 (132): 1-5.
- _____. 1892e. *Ditteri del Messico*. Pt. 1: 72 pp., 1 pl. Torino. (Also published in *Mem. r. Accad. Sci. Torino*, 43: 99-168, 1 pl., 1893).
- _____. 1893a. Diagnosi di nuovi generi e di nuove specie di ditteri. VIII. *Boll. Mus. Zool. Anat. comp. r. Univ. Torino*, 8 (147): 1-11.
- _____. 1893b. Diagnosi di nuovi generi e di nuove specie di ditteri. IX. *Boll. Mus. Zool. Anat. comp. r. Univ. Torino*, 8 (158): 1-14.
- _____. 1893c. *Ditteri del Messico*. Pt. 2: 80 pp., 1 pl. Torino. (Also published in *Mem. r. Accad. Sci. Torino*, 43: 321-398, 1 pl., 1893).
- _____. 1894. *Ditteri del Messico*. Pt. 3: 76 pp., 1 pl. Torino. (Also published in *Mem. r. Accad. Sci. Torino*, 44: 473-546, 1 pl., 1894).
- _____. 1895. *Ditteri del Messico*. Pt. 4: 74 pp., 1 pl. Torino. (Also published in *Mem. r. Accad. Sci. Torino*, 45: 1-74, 1 pl., 1896).
- _____. 1896. Un nuovo genere di Tabanidi. *Boll. Mus. Zool. Anat. comp. r. Univ. Torino*, 11 (224): 1-5, 1 fig.
- _____. 1897. Il maschio della *Dicrania cervus* Wied. *Boll. Mus. Zool. Anat. comp. r. Univ. Torino*, 12 (276): 1-3.
- Gill, G. D.** 1968. Family Heleomyzidae (Helomyzidae), including the Trixoscelididae (Trichocelidae), N° 85: 1-13. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Goidanich, A.** 1975. Uomini, storie e insetti italiani nella scienza del passato. I precursori minori. *Redia* (3) 57: 1-509, 239 figs.; 58: 513-1060, figs. 240-670.
- Guimarães, J. H.** 1968a. Family Hippoboscidae, N° 99 :1-17. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- _____. 1968b. Family Nycteribiidae, N° 101 :1-7. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- _____. 1971. Family Tachinidae (Larvaevoridae), N° 104 :1-333- In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- _____. 1977. A systematic revision of the Mesembrinellidae, stat. nov. (Diptera, Cyclorrhapha). *Arquivos de Zool.*, (São Paulo), 29(1): 1-109.
- Guimarães, J. H., N. Papavero & A. P. do Prado.** 1983. As miíases na Região Neotropical (Identificação, biologia, bibliografia). *Rvta. bras. Zool.*, 1(4): 239-416, 88 figs.

- Handlirsch, A.** 1905. Friedrich Moritz Brauer. *Verh. Zool.-bot. Ges. Wien*, 55:129-166, portrait (Biography and bibliography).
- Hardy, D. E.** 1966. Family Bibionidae, N° 18: 1-20. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Hemsley, W. B.** 1887. A sketch of the history of botanical exploration of Mexico and Central America, pp. 117-137. In: Godman, F.D. & O. Salvin, (Eds.). *Biologia Centrali-Americana. Botany 4*. London.
- Hitchcock, A. S.** 1919. A botanical trip to Mexico. I. *Sci. Monthly*, 8: 129-145; II, 8: 216-238.
- Hoffmann, A., J. G. Palacios-Vargas y J. B. Morales-Malacara.** 1986. *Manual de Bioespeleología (con nuevas aportaciones de Morelos y Guerrero)*. Dir. Gral. UNAM, México. 274 pp.
- Horn, W.** 1937. III. Kapitel: Ueber die Entwicklung der Entomo-Museologie (besonders in Abendlande). 1) Aus der Geschichte der fünf grössten Museen Europas (London, Leningrad, Wien, Paris, Berlin). *Ent. Beihefte*, Berlin-Dahlem, 4: 431-442.
- Howard, L. O.** 1930. A history of applied entomology (somewhat anecdotal). *Smith. Misc. Coll.*, 84:1-564.
- Humboldt, A. von.** 1814. Relation historique 1: 352 pp. (Atlas géographique et physique (1814-1819). In: Humboldt, A. von, & A. Bonpland (Eds.), 1805-1837. *Voyage aux régions équinoxiales du nouveau continent, fait en 1799, 1800, 1801, 1802, 1803 et 1804*. 24 vols., Paris.
- _____. 1861-1862. *Reise in der aequinoctial-Gegenden des neuen Continents*. 6 vol. J. G. Gotta'scher Verlang, Stuttgart.
- Irwin, M. E. & L. Lyneborg.** 1980. The genera of Nearctic Therevidae. *Illinois Nat. Hist. Survey Bull.*, 32(3): 191-277.
- James, M. T.** 1968. Family Rhagionidae (Leptidae), N° 29: 1-12. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- _____. 1970. Family Calliphoridae, N° 102 :1-28. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- _____. 1973. Family Stratiomyidae, N° 26: 1-95. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- _____. 1975. Family Xylomyidae, N° 25: 1-4. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Jaennicke, F.** 1867. Neue exotische Dipteren. *Abhandl. Senckenb. Naturf. Ges.*, 6: 311-408, pls. 43-44. (Also printed separately, under the title (*Neue exotische Dipteren aus den Museen zu Frankfurt a. M. und Darmstadt*, 100 pp. 2 pls., Frankfurt, 1868).
- Jordan, W.** 1866. *Men I have known*. Routledge, London.
- Kellner, L.** 1963. *Alexander von Humboldt*. Oxford University Press, New York.
- Kellogg, R.** 1932. Mexican tailless amphibians in the United States National Museum. *Bull. U. S. natl. Mus.* 160: 1-224.

- Knobloch, I. W.**, 1983. A preliminary verified list of plant collectors in Mexico. *Phytologia, Mem.* 6: 1-179.
- Knutson, L., G. C. Steyskal & J. Zuska.** 1976. Family Sciomyzidae, N° 64 :1-24. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Koehler, H.** 1904. Alexander von Humboldt in Mexico. *Prometheus*, 15: 469-471.
- Lessona, M.** 1881. Camillo Rondani. *Ann. r. Accad. Agric. Torino*, 1881:129-153.
- _____. 1884. *Naturalisti italiani*, 239pp. Casa Editrice A. Sommaruga, Roma.
- Lindemann, (--)**. 1884-1885. Verzeichniss derjenigen Botaniker welche zu meinem Herbarium beitragen haben. *Bull. Soc. imp. Natural. Moscou*, 60: 272-312.
- Linden, J. J.** 1867. Les explorations botaniques de la Colombie et en particulier le voyage de M. J. Linden de 1840 à 1844. *Belgique hort.*, 17: 235-256.
- Lopes, H. S.** 1969. Family Sarcophagidae, N°103: 1-88. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Lorence, D. H. & A. García M.** 1989. Oaxaca, México, pp. 253-269. In: Campbell, D. G. & H. D. Hammond (Eds.), *Floristic inventory of tropical countries*. New York Botanical Garden, New York.
- Macquart, J.** 1834. Histoire naturelle des Insectes.- Diptères. Tome premier, Diptera 1: 578 pp., 12 pls. In: Roret, N.E. (Ed.). *Collection des suites à Buffon*. Paris.
- _____. 1835. Histoire naturelle des Insectes.- Diptères. Tome deuxième, Diptera 2: 703 pp., 12 pls. In: Roret, N.E. (Ed.). *Collection des suites à Buffon*. Paris.
- _____. 1838a. Diptères exotiques nouveaux ou peu connus. *Mém. Soc. Roy. des Sci., de l'Agr. et des Arts Lille*, 1838(2): 9-225, 25 pls. (Also published separately as vol. 1, pt. 1, pp. 5-221, 25 pls., Paris, 1838).
- _____. 1838b. Diptères exotiques nouveaux ou peu connus, 1(2): 5-207, 14 pls., Paris. (Also published in *Mém. Soc. Roy. des Sci., de l'Agr. et des Arts Lille*, 1838(3): 131-323, 14 pls. (1839)).
- _____. 1840. Diptères exotiques nouveaux ou peu connus, 2(1): 5-135, 21 pls., Paris. (Also published in *Mém. Soc. Roy. des Sci., de l'Agr. et des Arts Lille*, 1840: 283-413, 21 pls. (1841)).
- _____. 1842. Diptères exotiques nouveaux ou peu connus. *Mém. Soc. Roy. des Sci., de l'Agr. et des Arts Lille*, 1841(1): 65-200, 22 pls. (Also published separately as vol. 2, pt. 2, pp. 5-140, 22 pls., Paris, 1842).
- _____. 1843a. Diptères exotiques nouveaux ou peu connus. *Mém. Soc. Roy. des Sci., de l'Agr. et des Arts Lille*, 1842: 162-460, 26 pls. (Also published separately as vol. 2, pt. 3, pp. 5-304, 36 pls., Paris, 1843).
- _____. 1843b. Description d'un nouveau genre d'Insectes Diptères. *Ann. Soc. Entomol. France*, (2) 1: 59-63, 1 pl.
- _____. 1846. Diptères exotiques nouveaux ou peu connus. 1er. Supplément. *Mém. Soc. Roy. des Sci., de l'Agr. et des Arts Lille*, (1845), 1844: 133-364, 20 pls. (Also separately published as Supplément I, pp. 5-238, 20 pls., Paris, 1846).
- _____. 1847. Diptères exotiques nouveaux ou peu connus. 2e. Supplément. *Mém. Soc. Roy. des Sci., de l'Agr. et des Arts Lille*, 1846: 21-120, 6 pls. (Also separately published as Supplément II, pp. 5-104, 6 pls., Paris, ?1847).

- _____. 1848. Diptères exotiques nouveaux ou peu connus. Suite du 2me. Supplément. (i.e., 3me. Supplément). *Mém. Soc. Roy. des Sci., de l'Agr. et des Arts Lille*, 1847(2): 161-237, 7 pls. (Also separately published as Supplément III, pp. 1-77, 7 pls., Paris, 1848).
- _____. 1850. Diptères exotiques nouveaux ou peu connus. 4e. Supplément (part). *Mém. Soc. Roy. des Sci., de l'Agr. et des Arts Lille*, 1849: 309-465 (text), 466-479 (explanation of Figs., index), pls. 1-14. (Also separately published as Supplément IV (part), pp. 5-161 (text), Paris, ?1850).
- _____. 1850a. Facultés intérieures des animaux invertébrés, lxxxii (Macquart's autobiography) + 272 pp. Imprimerie de L. Danel, Lille. (Reprinted from the *Mém. Soc. Des Sci., de l'Agr. et des Arts Lille*).
- _____. 1852. Notice sur un nouveau genre de Diptères de la famille des Pupipares, tribu des Phthiromydes, sous le nom de *Megistopoda* (*M. pilatei*). *Ann. Soc. Entomol. France*, (2) 10: 331-333, pl. 4, fig. 4.
- _____. 1854. Diptères exotiques nouveaux ou peu connus. Suite du 4e. Supplément. *Mém. Soc. Roy. des Sci., de l'Agr. et des Arts Lille*, 1850: 134-282 (text), 283-294 (explanation of Figs., index), pls. 15-28. (Also separately published as Supplément IV (part), pp. 161-309 (text), 317-323 (explanation of Figs.), 324-336 (combine index of the 2 parts of this supplement), pls. 15-28, Paris, 1851).
- _____. 1854a. Diptères exotiques nouveaux ou peu connus. 5e. Supplément. *Mém. Soc. Roy. des Sci., de l'Agr. et des Arts Lille*, 1854: 25-156, 7 pls.
- Martin, C. H.** 1968. Family Leptogastridae, N° 35a: 1-11 In Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Martin, C. H. & N. Papavero.** 1970. Family Asilidae, N° 35b: 1-139. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Martín del Campo, R.** 1937. Alfredo Augusto Delsescoutz Dugès. Ensayo biográfico. *An. Inst. Biol. México*, 8:437-455, 3 figs.
- Matile, L.** 1974. Découverte des dessins inédits du diptériste J. W. Meigen. *Bull. Soc. Entomol. France*, 79:104.
- McVaugh, R.** 1972. Botanical exploration in Nueva Galicia, Mexico, from 1790 to the present time. *Contr. Univ. Mich. Herb.*, 9: 205-357.
- Morisi, A.** 1980. Sala degli insetti, pp. 91-106, 21 figs., In Molinari, E., ed., *Il Museo Civico Craveri di Bra di Storia Naturale*. Ed. Casa Risparmio Savigliana.
- Morge, G.** 1975. Dipteren-Farbtafeln nach den bisher nicht ver "offentlichten Original-Handzeichnungen Meigens: Johann Wilhelm Meigen: Abbildung der europäischen zweiflügeligen Insecten nach der Natur". Pars I. Vorwort des Herausgebers- Faksimiles von Original-Legenden un Indez: "Erklaerung der Fig."und" Alphabetisches Verzeichnis der Gattungen und Arten-Farbtafeln I-LXXX. *Beitr. Z. Ent., Berlin* 25(2): 383-500, 80 col. pls.
- Mullens, W. H.** 1917. Some museums of Old London. II. William Bullock's London Museum. *The Museums J.*, 17: 51-56, 132-137, 180-187.

- Munroe, D. D.** 1974. The systematics, phylogeny, and zoogeography of *Symmerus* Walker and *Australosymmerus* Freeman (Diptera: Mycetophilidae: Ditomyiinae). *Mem. Entomol. Soc. Canada*, 92: 1-183, 78 figs.
- Nelson, E. W.** 1922. Lower California and its natural resources. *Natl. Acad. Sci.*, 16 (1st Memoir): 1-94.
- Newman, E.** 1874. Obituary (F. Walker). *Can. Entomol.*, 6: 255-259.
- Osten Sacken, C. R.** 1878. Catalogue of the described Diptera of North America. Ed. 2. *Smithson. Misc. Coll.*, 16 (publ. 270): 276 pp.
- _____. 1885. Elenco delle pubblicazioni entomologiche del Professore Camillo Rondani. *Boll. Soc. Entomol. Ital.*, 17:149-162.
- _____. 1903. *Record of my life in entomology*. viii+204 pp., 3 pls. Cambridge, Mass.
- _____. 1904. Records of my life in Entomology. Part Third. List of my entomological publications from 1854 to 1904, pp. 205-240 + 2 unnumbered pages, 1 pl. J. Hoerning, Heidelberg (Facsimile reprint, 1978, E. W. Classey (Series Classica Entomologica n° 2), Faringdon, Oxon).
- Painter, R. H., E. M. Painter & J. Hall.** 1978. Family Bombyliidae, N° 38:1-92. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Palmer, T. S. et al.**, 1954. *Biographies of members of the American Ornithologists' Union*. Lord Baltimore Press, Washington, D.C.
- Papavero, N.** 1967a. Family Anisopodidae (Rhyphidae, Phryneidae, Sylvicolidae), N° 17: 1-19. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- _____. 1967b. Family Pantophthalmidae, N° 30: 1-8. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- _____. 1967c. Family Rhinotoridae, N° 87: 1-4. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- _____. 1968. Family Nemestrinidae, N° 36: 1-12. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- _____. 1971a. Family Conopidae, N° 47: 1-28. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- _____. 1971b. *Essays on the history of neotropical dipterology, with special reference to collectors (1750-1905)*. Vol. I. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- _____. 1973. *Essays on the history of neotropical dipterology, with special reference to collectors (1750-1905)*. Vol. II. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- _____. 1975. Studies of Asilidae (Diptera) systematics and evolution. IV.- The tribe Megapodini Carrera (Dasypogoninae), with a review of the neotropical species. *Aqs. Zool.*, S. Paulo, 26(3): 191-318, 175 figs.

- _____. 1977. Family Ditomyiidae, N° 19B: 1-6. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- _____. 1978. Family Mycetophilidae (Fungivoridae), N° 19E: 1-78. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- _____. 1996. Mydidae (Diptera), pp. 619-634, 14 figs., 2 tabs. In: Llorente-Bousquets, J., A. N. García-Aldrete & E. González-Soriano (Eds.). *Biodiversidad, taxonomía y biogeografía de México: hacia una síntesis de su conocimiento*, xvi+660 pp. Universidad Nacional Autónoma de México, México, D.F.
- Papavero, N. & J. Wilcox.** 1968. Family Mydidae, N° 34: 1-20. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Passerin d'Entrèves, P.** 1983. Figure dell'entomologia piemontese (Riassunto). *Atti XIII Congr. Naz. Ital. Ent., Sestriere-Torino*: 31-34.
- Pennell, F. W.** 1945. Historical sketch, pp. 35-48. In: Verdoorn, F. (ed). *Plants and plant sciences in Latin America*. Chronica Botanica, Waltham, Mass.
- Petit-Thouars, A. A. du,** 1840-1843. Voyage autour du monde sur la frégate La Vénus", pendant les années 1836-1839, publiée par ordre du roi, sous les auspices du Ministère de la Marine, 1(1840), xlv + 402 pp., 2 pls.; 2(1841), 464 pp.; 3(1841), 490 pp. 6 pls.; 4 (1843), 178 pp., 1 pl. Atlas Pittoresque, 68 pls. Paris.
- Pilate, L.** 1846. Letter about his travels in Yucatan. *Bull. Soc. Entomol. France*, (2)4: xcvi-xcvii.
- Poggi, R. & C. Conci.** 1996a. Elenco delle collezioni entomologiche conservate nelle strutture pubbliche italiane. *Mem. Soc. ent. ital.*, Genova 75: 3-157.
- _____. 1996b. Iconography of Italian entomologists, with essential biographical data. *Mem. Soc. ent. ital.*, Genova 75: 159-382, 418 portraits.
- Pont, A. C.** 1972. Family Muscidae, N° 97: 1-111. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- _____. 1974. Family Anthomyiidae, N° 96a: 1-21. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- _____. 1995. The dipterist C. R. W. Wiedemann (1770-1840). His life, work and collections. *Steenstrupia*, 21: 125-154.
- Prado, A. P. do,** 1975a. Family Psilidae, N° 50: 1-3. In: Papavero, N., (Ed.) *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- _____. 1975b. Family Syringogastridae, N° 51: 1-2. In: Papavero, N., (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Robinson, H.** 1970. Family Dolichopodidae, N° 40: 1-92. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Röhl, E.** 1938a. Jean Jules Linden. *Boln. Soc. Venez. Cienc. Nat.*, 4(34): 380-383.

- _____. 1938b. Jean Jules Linden. Relación del viaje de exploración efectuado por J. Linden en 1841. *Boln. Soc. Venez. Cienc. Nat.*, 4(34): 384-414.
- Rondani, C.** 1848. Esame di varie specie d'insetti ditteri brasiliani. In: F. Baudi & E. Truqui. *Studi Entomologici*, 1: 63-112.
- _____. 1850a. Osservazioni sopra alquante specie di esapodi ditteri del Museo Torinese. *Nuovi Annal. Sci. nat. e Rend., Bologna* (3) 2: 165-197, pl. 4.
- _____. 1850b. Dipterorum species aliquae in America Aequatoriali collectae a Cajetano Osculati, observatae et distinctae novis breviter descriptis. *Nuovi Annal. Sci. nat. e Rend., Bologna* (3) 2: 357-372.
- _____. 1863. Diptera exotica revisa et annotata, 99 pp., 1 pl. *Modena* (Also published in *Arch. Zool. Anat. Fisiol. Modena* (1863), 3(1): 1-99, pl. 5, 1864).
- _____. 1868. Diptera aliqua in America Meridionali lecta a Prof. P. Strobel annis 1866-7 distincta et annotata, novis aliquibus descriptis. *Ann. Soc. Naturalisti Modena*, 3: 1-20, pl. 4.
- _____. 1878. Muscaria exotica Musei Civici Januensis observata et distincta. Fragmentum IV. Hippoboscita exotica non vel minus cognita. *Ann. Mus. civ. Stor. Nat. Genova*, 12: 150-169.
- Roviroso, J. N.** 1889. Vida y trabajos del naturalista Belga Augusto B. (Bonifacio) Ghiesbreght, explorador de México. *Naturaleza*, (2) 1: 211-217.
- Rübsaamen, E.** 1892. Die Gallmücken des Königl. Museums für Naturk. zu Berlin. *Berlin. Entomol. Z.*, 37: 321-411, pls. 7-18.
- _____. 1894. Die aussereuropäische Trauermücken des Königl. Museums für Naturk. zu Berlin. *Berlin. Entomol. Z.*, 39: 17-42, 3 pls.
- _____. 1895. Cecidomyidenstudien. *Entomol. Nachr.*, 21: 177-194.
- _____. 1905. Beiträge zur Kenntnis aussereuropäischer Zoocecidien. II. Beiträge Gallen aus Brasilien und Peru. *Marcellia*, 4: 68-85, 115-138.
- _____. 1908a. Beiträge zur Kenntnis aussereuropäischer Zoocecidien. III. Beiträge Gallen aus Brasilien und Peru. *Marcellia*, 6: 110-173.
- _____. 1908b. Beiträge zur Kenntnis aussereuropäischer Zoocecidien. III. Beiträge (concl.) Gallen aus Brasilien und Peru. *Marcellia*, 7: 15-79.
- _____. 1916. Beiträge zur Kenntnis aussereuropäischer Gallmücken. *Sitzber. Ges. naturf. Freunde Berlin*, 1915: 431-481.
- Rzedowski, J. & G. C. de Rzedowski.** 1989. Transisthmic Mexico (Coahuila, Chiapas, Quintana Roo, Tabasco, and Yucatan), pp. 270-280. In: Campbell, D. G. & D. Hammond (Eds.). *Floristic inventory of tropical countries*. New York Botanical Garden, New York.
- Sabrosky, C. W.** 1972. Discovery of the bot fly collection of Bracy Clark, with designation of lectotypes in *Cuterebra*. *J. Entomol.* (B), 41(2): 89-96.
- _____. 1986. *North American species of Cuterebra, the rabbit and rodent bot flies (Diptera, Cuterebridae)*. Entomological Society of America, College Park, Maryland, 240 pp. 19 maps, 51 figs.
- Sabrosky, C. W. & C. H. Paganelli.** 1984. Family Chloropidae, Nº 81: 1-63. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Sacco, F.** 1889. Louis Bellardi, note biographique. *Bull. Soc. belge Géol.* 3: 456-460, portrait.

- Say, T.** 1829. Descriptions of North American dipterous insects. *J. Acad. nat. Sci. Phila.*, 6: 149-178.
- _____. 1830. Descriptions of North American dipterous insects. *J. Acad. nat. Sci. Phila.*, 6: 183-188.
- Schaffnit, E.** 1927. Professor Ewald Rübssaamen. *Z. angew. Entomol.*, 13: 200-217, photo.
- Schiede, C. J. W.** 1829a. Botanische Berichte aus Mexiko, mitgetheilt vom Dr. Schiede (aus Briefen an den Herausgeber). Erster Bericht über die Vegetation um Veracruz and über die Reise von dort nach Jalapa. *Linnaea*, 4: 205-212.
- _____. 1829b. Botanische Berichte aus Mexiko, mitgetheilt vom Dr. Schiede (aus Briefen an den Herausgeber). Zweiter Bericht über die Gegend um Jalapa und Excursion auf den Volcan de Orizaba. *Linnaea*, 4: 212-236.
- _____. 1830a. Botanische Berichte aus Mexiko, mitgetheilt vom Dr. Schiede (aus Briefen an den Herausgeber). Dritter Bericht über die Gegend von Papantla und Misantla und über die Reisse von Jalapa dorthin und zurück. *Linnaea*, 4: 524-538.
- _____. 1830b. Botanische Berichte aus Mexiko, mitgetheilt vom Dr. Schiede (aus Briefen an den Herausgeber). Vierter Bericht, Excursionen in der Gegend von Jalapa und Reise von dort nach Mexiko. *Linnaea*, 5: 463-477.
- Sclater, P. L.** 1858. On a collection of birds recieved by M. Auguste Sallé from Oaxaca in southern Mexico. *Proc. zool. Soc. London Pt 26*: 294-305, 1858; *Pt 27*: 369-393, 1859. (Also in *Proc. zool. Soc. London 1862*: 18-20).
- Smith, K. G. V.** 1967. Family Empididae (Empididae, Hybotidae), N° 39: 1-67. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Smith, H. M. & R. B. Smith.** 1969. *Early foundations of Mexican herpetology. An annotated and indexed bibliography of the herpetological publications of Alfredo Dugès, 1826-1860*. University of Illinois Press, Urbana.
- _____. 1973. *Synopsis of the herpetological fauna of Mexico. Vol. 2. Analysis of the literature exclusive of the Mexican axolotl*. John Johnston Natural History Books, North Bennington, Vermont.
- Sprague, T. A.** 1924. Humboldt and Bonpland's Mexican itinerary. *Kew Bull.*, 1: 20-27 (Republished, pp. 95-98, in Stearn, 1968).
- Stafleu, F. A. & R. S. Cowan.** 1976-1988. *Taxonomic literature, a selective guide to botanical publications and collections, with dates, commentaries and types*. 7 Vols. Bohn, Scheltema & Holkema, Utrecht.
- Standley, P. C.** 1920. Trees and shrubs of Mexico. Part 1. *Contr. U. S. natl. Herb.*, 23: 1-169.
- _____. 1930. Flora of Yucatan. *Field Mus Nat. Hist. Publs. Bot.*, (3)3: 157-452.
- Stearn, W. T.** (Ed.). 1968. *Humboldt, Bonpland, Kunth, and Tropical American botany. A miscellany of the "Nova genera et species plantarum"*. J. Cramer, Lehere.
- Stevens, M., R.L.** 1956. La obra de Alexander von Humboldt en México. *Publs. Inst. panam. Georg. Hist.*, 202: 1-269.
- Steyskal, G. C.** 1965. Family Platystomatidae, pp. 655-657. In: Stone, A., C.W. Sabrsky, W.W. Wirth, R.F. Foote & J. R. Coulson. *A catalog of the Diptera of America North of Mexico*. Agriculture Handbook No. 276, Washington, D. C.

Papavero & Ibañez-Bernal: History of Mexican Dipterology

- _____. 1967. Family Tanypezidae, Nº 52: 1-4. *In: Papavero, N. (Ed.). A Catalogue of the Diptera of the Americas south of the United States.* Museu de Zoologia, de São Paulo, São Paulo.
- _____. 1968a. Family Micropezidae, Nº 48: 1-33. *In: Papavero, N. (Ed.). A Catalogue of the Diptera of the Americas south of the United States.* Museu de Zoologia, Universidade de São Paulo, São Paulo.
- _____. 1968b. Family Otitidae, Nº 54: 1-31. *In: Papavero, N. (Ed.). A Catalogue of the Diptera of the Americas south of the United States.* Museu de Zoologia, de São Paulo, São Paulo.
- _____. 1968c. Family Sepsidae, Nº 63: 1-6. *In: Papavero, N. (Ed.). A Catalogue of the Diptera of the Americas south of the United States.* Museu de Zoologia, de São Paulo, São Paulo.
- _____. 1968d. Family Neriidae, Nº 49: 1-7. *In: Papavero, N. (Ed.). A Catalogue of the Diptera of the Americas south of the United States.* Museu de Zoologia, de São Paulo, São Paulo.
- _____. 1968e. Family Richardiidae, Nº 53: 1-26. *In: Papavero, N. (Ed.). A Catalogue of the Diptera of the Americas south of the United States.* Museu de Zoologia, de São Paulo, São Paulo.
- _____. 1968f. Family Platystomatidae, Nº 55: 1-4. *In: Papavero, N. (Ed.). A Catalogue of the Diptera of the Americas south of the United States.* Museu de Zoologia, de São Paulo, São Paulo.
- _____. 1977. Family Dryomyzidae, Nº 62: 1-2. *In: Papavero, N. (Ed.). A Catalogue of the Diptera of the Americas south of the United States.* Museu de Zoologia, de São Paulo, São Paulo.
- Stresemann, E.** 1954. Ferdinand Deppe's travels in Mexico, 1824-1829. *The Condor*, 56: 86-92.
- Stroud, P. T.** 1922. *Thomas Say. New World Naturalist.* University of Pennsylvania Press, Philadelphia.
- Terra, H. de,** 1955. *Humboldt: The life and times of Alexander von Humboldt, 1769-1859.* Alfred A. Knopf, New York.
- Thompson, F. C., J. R. Vockeroth & Y. S. Sedeman.** 1976. Family Syrphidae, Nº 46: 1-195. *In: Papavero, N. (Ed.). A Catalogue of the Diptera of the Americas south of the United States.* Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Urban, I.** 1897. Carl August Ehrenberg (1801-1849). *Bot. Jahrb., Abt. Syst.*, 24 (Beihefte 58): 1-13.
- _____. 1903. Notae biographicae peregrinatorum Indiae Occidentalis botanicorum, *In: Symbolae Antillanae*, 3 (1): 14-158. Lipsiae (=Leipzig).
- Vogelsang, E. G. & R. Martín del Campo.** 1947. Parasitología de los Nahoas. *Rvta. Med. vet. Parasitol. Caracas*, 6(1-4): 47-52, 2 figs.
- Vulcano, M. A.** 1967. Family Simuliidae, Nº 16: 1-44. *In: Papavero, N. (Ed.). A Catalogue of the Diptera of the Americas south of the United States.* Museu de Zoologia, de São Paulo, São Paulo.
- Walker, F.** 1837. Descriptions, etc., of the insects collected by Cpt. P. P. King, R. N., F. R. S., in the survey of the Straits of Magellan. *Diptera. Trans. Linn. Soc. London*, 17: 331-359.

- _____. 1848-1849. List of the specimens of dipterous insects in the collection of the British Museum, 1: 1-229, 1848; 2: 231-484, 1849; 3: 485-687, 1849; 4: 689-1172, 1849. London.
- _____. 1850a. Diptera, (cont.), Vol. 1, pp. 1-76, pls. I-II, In: Saunders, W. W. (Ed.). *Insecta Saundersiana*. London, "1856".
- _____. 1850b. Characters of undescribed Diptera in the British Museum. *Zoologist*, 8 (Appendix): lxx, xcix-cix, cxxi-cxxii.
- _____. 1851. Diptera (cont.), Vol. 1, pp. 77-156, pls. III-IV, In: Saunders, W. W. (Ed.). *Insecta Saundersiana*. London, "1856".
- _____. 1852a. Diptera (cont.), Vol. 1, pp. 157-252, pls. V-VI, In: Saunders, W. W. (Ed.). *Insecta Saundersiana*. London, "1856".
- _____. 1852b. Diptera (cont.), Vol. 1, pp. 253-414, pls. VII-VIII, In: Saunders, W. W. (Ed.). *Insecta Saundersiana*. London, "1856".
- _____. 1854. List of the specimens of dipterous insects in the collection of the British Museum, 5 (suppl. I): 1-330, 2 figs.; 6 (suppl. II): 331-506, 8 figs. London.
- _____. 1856. Diptera (concl.), Vol. 1, pp. 415-474. In: Saunders, W. W. (Ed.). *Insecta Saundersiana*. London, "1856".
- _____. 1857-1858. Characters of undescribed Diptera in the collection of W. W. Saunders. *Trans. Entomol. Soc. London*, (N.S.)(Ser. 2), 4: 119-158, 1857; 190-235, 1858.
- _____. 1860-1861. Characters of undescribed Diptera in the collection of W. W. Saunders. *Trans. Entomol. Soc. London*, (1858-1861) (N.S.) (Ser. 2), 5: 268-296, 1860; 297-334, 1861.
- Wandolleck, B.** 1893. John Obadiah Westwood. *Berlin. Entomol. Z.*, 38(4): 392-396.
- Wauer, R. H.** 1992. *A naturalist's Mexico*. Texas A & M University Press, College Station, Texas.
- Weiss, H. B. & G. M. Ziegler.** 1931. *Thomas Say, early American naturalist*. Charles C. Thomas, Springfield, Ill.
- Wenzel, R. L.** 1970. Family Streblidae, N° 100: 1-25. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Westwood, J. O.** 1835a. Insectorum novorum exoticorum (ex ordine dipterorum) descriptiones. *London & Edinburgh Mag. & J. Sci.*, (3) 6: 280-281, 447-449.
- _____. 1835b. Insectorum nonnullorum novorum (ex ordine dipterorum) descriptiones. *Ann. Entomol. Soc. France*, (1)4: 681-685.
- _____. 1840. Order XIII. Diptera Aristotle (Antliata Fabricius. Halteriptera Clairv.), pp. 125-128 (=signature I, part), 129-144 (=signature K), 145-158 (=signature L), In: Westwood, J.O. (Ed.). *An introduction to the modern classification of Insects. Synopsis of the genera of British Insects*. 158 pp., London.
- _____. 1841. Plates XIII and XIV. Synopsis of the dipterous family Midasidae, with descriptions of numerous species, pp. 49-56, pls. 13-14. In: Westwood, O. J. (Ed.). 1845. *Arcana Entomologica: Or illustrations of new, rare, and interesting insects*, 1: 192 pp., 48 pls. London.
- _____. 1842. Generis dipterorum monographia Systropi (Guérin-Méneville). *Mag. Zool.*, (2) 4: 1-4, pl. 90.

Papavero & Ibañez-Bernal: History of Mexican Dipterology

- _____. 1848. Descriptions of some new exotic species of Acroceridae (Vesiculosa, Latr.), a family of dipterous insects. *Trans. Entomol. Soc. London*, (1847-1849), 5: 91-98.
- _____. 1876. Notae dipterologicae. N° 3. Descriptions of new genera and species of the family Acroceridae. *Trans. Entomol. Soc. London*, 1876: 507-518, 2 pls.
- _____. 1881. Notae dipterologicae. N° 5. Descriptions of new species of exotic Tipulidae, with an annotated summary of species belonging to the same family, previously described. *Trans. Entomol. Soc. London*, 1881 (2): 363-385, pls. 17-19.
- Wheeler, M. R.** 1970. Family Drosophilidae, N° 79:1-65. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Wiedemann C. R. W.** 1819. Brasilianische Zweiflügler. (Wiedemann's) *Zool. Mag.*, 1: 40-56.
- _____. 1820a. *Diptera exotica* (Ed. 1). Pt I, xix+ 42 pp., 1 fig. Kiliae (=Kiel).
- _____. 1820b. *Munus rectoris in Academia Christiano-Albertina iterum aditurus Nova dipterorum genera offert iconibusque illustrat*, 23 pp., 1 pl. Kiliae Holsatorum (=Kiel).
- _____. 1821a. *Diptera exotica* (Ed. 1). Pt II, iv+ pp. 43-50 (cont.). Kiliae (=Kiel).
- _____. 1821b. *Diptera exotica* (Ed. 1). Pt II (concl.), 101 pp., 2 pls. Kiliae (=Kiel).
- _____. 1821c. *Diptera exotica* (Ed. 2), 244 pp., 1 fig., 2 pls. Kiliae (=Kiel). (Pages 152-244 contain material not in the first edition; pp. 1-151 being the same as the first edition's pp. 1-50, and 1-101).
- _____. 1824. *Munus rectoris in Academia Christiano-Albertina aditurus Analecta entomologica ex Museo regio Havniensi*, 60 pp., 1 pl. Kiliae (=Kiel).
- _____. 1828. *Aussereuropäische zweiflügelige Insekten. Als Fortsetzung des Meigenschen Werkes. I*, xxxii+ 608 pp., 7 pls. Schulz, Hamm.
- _____. 1830. *Aussereuropäische zweiflügelige Insekten. Als Fortsetzung des Meigenschen Werkes. II*, xii+ 684 pp., 5 pls. Schulz, Hamm.
- _____. 1831. Monographia generis Midarum. *Verh. k. leopold.-carol. Akad. Naturf. (Acta C. Leopold.-Carol. Nat. Curios. Nova Acta Phys.-Med.)*, 15 (=Ser. 2, 5 (=Verh. 7) (2): 19-56, pls. 52-54.
- Wilcox, J., N. Papavero & T. Pimentel.** 1989. *Studies of Mydidae (Diptera). Ivb. Mydas and allies in the Americas (Mydinae, Mydini)*, 139 pp. 27 figs. Museu Paraense Emilio Goeldi, Belém, Pará.
- Wirth, W. W.** 1968. Family Ephydriidae, N° 77: 1-43. In: Papavero, N. (Ed.). *A Catalogue of the Diptera of the Americas south of the United States*. Museu de Zoologia, Universidade de São Paulo, São Paulo.
- Wood, D. M.** 1987. Oestridae, Cap. 107: 1147- 1158. In: McAlpine, J. F. (Ed.). *Manual of Nearctic Diptera*, Vol. 2. Research Branch, Agric. Canada, Monograph N° 28, Canada.

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APPENDIX 1

Exotic species of Diptera treated by C. E. W. Wiedeman in his "Ausereuropäische Zweiflügelige Insekten" (1828-1830) (Abbr. NA-North America; WI-West Indies; SA-South America (mostly from Brazil)).

Family	Total	NA	WI	SA	Mexico
Genera	number of species				
I. Fam. TIPULARIAE (Mücken)					
1. <i>Culex</i>	26	5	1	11	2
2. <i>Anopheles</i>	5	4	1		
3. <i>Corethra</i>	1	1			
4. <i>Chironomus</i>	11	6		3	
5. <i>Tanypus</i>	4	2		1	
6. <i>Macropeza</i>	1				
7. <i>Lasioptera</i>	1	1			
8. <i>Cecidomyia</i>	2	2			
9. <i>Campylomyza</i>	1	1			
10. <i>Psychoda</i>	1	1			
11. <i>Erioptera</i>	1	1			
12. <i>Limnobia</i>	38	7		22	
13. <i>Ctenophora</i>	5	2			
14. <i>Tipula</i>	25	11		6	
15. <i>Megistocera</i>	4			1	
16. <i>Polymera</i>	2			2	
17. <i>Ptychoptera</i>	2	2			
18. <i>Trichocera</i>	1	1			
19. <i>Platyura</i>	3	2		1	
20. <i>Sciophila</i>	6	6			
21. <i>Leia</i>	2	1		1	
22. <i>Mycetophila</i>	3	3			
23. <i>Sciara</i>	10	7		3	
24. <i>Simulia</i>	1	1			
25. <i>Scatopse</i>	1	1			
26. <i>Penthetria</i>	2				
27. <i>Plecia</i>	7			6	
28. <i>Dilophus</i>	6	5		1	
29. <i>Bibio</i>	10	9			
30. <i>Rhyphus</i>	3	3			
Total in the family	185	85	2	58	2

Appendix 1.

Family Genera	Total number of species	NA	WI	SA	Mexico
II. Fam. XYLOPHAGI (Holzfliege)					
1. <i>Beris</i>	3	2		1	
2. <i>Xylophagus</i>	4	2			1
3. <i>Coenomyia</i>	1	1			
Total in the family	8	5	0	1	1
III. Fam. TABANII (Bremsen)					
1. <i>Pangonia</i>	37	1		14	3
2. <i>Rhinomyza</i>	2				
3. <i>Rhaphiorhynchus</i>	1			1	
4. <i>Acanthomera</i>	6		1	5	
5. <i>Silvius</i>	4	1		2	1
6. <i>Tabanus</i>	137	21		28	1
7. <i>Chrysops</i>	27	7		12	
8. <i>Haematopota</i>	11			5	
Total in the family	225	30	1	67	5
IV. Fam. LEPTIDES (Schefflenfliegen)					
1. <i>Leptis</i>	18	11	0	4	0
V. Fam. XYLOTOMAE					
1. <i>Thereva</i>	18	5		2	
2. <i>Chiromyza</i>	3			3	
3. <i>Ruppelia</i>	1				
Total in the family	22	5	0	5	0
VI. Fam. MIDASII (Midasfliegen)					
1. <i>Midas</i>	23	2	1	11	2
VII. Fam BOMBYLIARII (Schwebfliegen)					
1. <i>Hirmoneura</i>	1			1	
2. <i>Nemestrina</i>	15			2	
3. <i>Lomatia</i>	1	1			
4. <i>Anthrax</i>	118	17	4	23	10
5. <i>Tomomyza</i>	1				
6. <i>Xestomyza</i>	2				

Appendix 1.

Family Genera	Total number of species	NA	WI	SA	Mexico
VII. Fam. BOMBYLIARII (continued)					
7. <i>Apatomyza</i>	1				
8. <i>Corsomyza</i>	4				
9. <i>Lasia</i>	1			1	
10. <i>Mulio</i>	2				
11. <i>Bombylius</i>	43	5		8	
12. <i>Amictus</i>	2				
13. <i>Thlipsomyza</i>	1				
14. <i>Phthiria</i>	3			1	
15. <i>Geron</i>	1		1		
16. <i>Cyllenia</i>	2				
17. <i>Systropus</i>	2			1	
18. <i>Toxophora</i>	4			1	
19. <i>Dolichomyia</i>	1			1	
20. <i>Usia</i>	1				
Total in the family	206	23	5	39	10
VIII. Fam. ASILICI (Räuberfliegen)					
1. <i>Dioctria</i>	6	1		1	
2. <i>Dasypogon</i>	84	8	1	32	1
3. <i>Ceraturgus</i>	1	1			
4. <i>Damalis</i>	4				
5. <i>Ommatius</i>	10	1	1		
6. <i>Asilus</i>	122	18	2	54	
7. <i>Laphria</i>	64	13		27	1
8. <i>Leptogaster</i>	7	1		2	
Total in the family	298	43	4	116	2
IX. Fam. HYBOTINAE					
1. <i>Hybos</i>	7	1		3	
X. Fam. EMPIDIAE					
1. <i>Empis</i>	12		1	2	1
2. <i>Rhamphomyia</i>	7	4		1	
3. <i>Drapetis</i>	1				
Total in the family	20	4	1	3	1

Appendix 1.

Family Genera	Total number of species	NA	WI	SA	Mexico
XI. Fam. TACHYDROMIDES					
1. <i>Hemerodromia</i>	1	1			
2. <i>Tachydromia</i>	2	1			
Total in the family	3	2	0	0	0
XII. Fam INFLATAE					
1. <i>Cyrtus</i>	4				
2. <i>Acrocera</i>	2	1		1	
3. <i>Philopota</i>	1			1	
Total in the family	7	1	0	2	0
XIII. Fam. STRATIOMYDAE					
1. <i>Hermetia</i>	7			6	
2. <i>Sargus</i>	28	4	1	17	
3. <i>Acrochaeta</i>	1			1	
4. <i>Eudmeta</i>	1				
5. <i>Nemotelus</i>	2	1			
6. <i>Clitellaria</i>	5		1	1	
7. <i>Acanthina</i>	3			3	
8. <i>Platyna</i>	1				
9. <i>Cyphomyia</i>	8			7	1
10. <i>Ptilocera</i>	1				
11. <i>Oxycera</i>	1		1		
12. <i>Stratiomys</i>	28	7		12	
Total in the family	86	12	3	47	1
XIV. Fam. SYRPHIDIAE					
1. <i>Ceratophya</i>	2			2	
2. <i>Ceria</i>	2				
3. <i>Microdon</i>	11	2		7	
4. <i>Chrysotoxum</i>	2		1		
5. <i>Paragus</i>	4				
6. <i>Ascia</i>	1				
7. <i>Psarus</i>	2	2			
8. <i>Baccha</i>	9		1	2	
9. <i>Xylota</i>	11	5		3	

Appendix 1.

Family Genera	Total number of species	NA	WI	SA	Mexico
XIV. Fam. SYRPHIDIAE (continued)					
10. <i>Milesia</i>	8	3		1	
11. <i>Pipiza</i>	1				
12. <i>Eumerus</i>	7				
13. <i>Rhingia</i>	1	1			
14. <i>Chrysogaster</i>	1	1			
15. <i>Syrphus</i>	53	12	1	18	
16. <i>Platynochaetus</i>	1				
17. <i>Merodon</i>	6	1		1	
18. <i>Eristalis</i>	64	6	2	18	
19. <i>Volucella</i>	20		2	14	1
20. <i>Graptomyza</i>	4				
Total in the family	210	33	7	66	1
XV. Fam. MEGACEPHALI (Grossköpfe)					
1. <i>Pipunculus</i>	1			1	
XVI. Fam. DOLICHOPODII (Dünnbeinfliegen)					
1. <i>Rhaphium</i>	1				
2. <i>Diaphorus</i>	1				
3. <i>Chrysetus</i>	1				
4. <i>Psilopus</i>	33	10	1	11	
5. <i>Porphyrops</i>	1				
6. <i>Medeterus</i>	1				
7. <i>Dolichopus</i>	9	2		2	
8. <i>Scenopinus</i>	1				
Total in the family	48	12	1	13	0
XVII. Fam. CONOPSARIAE (Kopffliegen)					
1. <i>Conops</i>	10	3		3	
2. <i>Zodion</i>	3	2		1	
3. <i>Myopa</i>	6	3			
Total in the family	19	8	0	4	0
XVIII. Fam. STOMOXYDIAE					
1. <i>Stomoxys</i>	12	1		7	
2. <i>Glossina</i>	1				
Total in the family	13	1	0	7	0

Appendix 1.

Family Genera	Total number of species	NA	WI	SA	Mexico
XIX. Fam. OESTRACIDAE (Stumpfmaulfliegen)					
1. <i>Oestrus</i>	2	1			
2. <i>Trypoderma</i>	5	4			
3. <i>Colax</i>	2			1	
Total in the family	9	5	0	1	0
XX. Fam. MUSCIDIAE (Urfliegen)					
1. <i>Phasia</i>	3			1	
2. <i>Ocyptera</i>	6			1	
3. <i>Phania</i>	1			1	
4. <i>Trichopoda</i>	13	6		7	
5. <i>Trixa</i>	1				
6. <i>Miltogramma</i>	2				
7. <i>Tachina</i>	117	4	7	45	1
8. <i>Gonia</i>	6			1	
9. <i>Musca</i>	73	1		15	
10. <i>Mesembrina</i>	1			1	
11. <i>Idia</i>	12	1			
12. <i>Sarcophaga</i>	31	1	5	17	
13. <i>Dexia</i>	27		1	16	
14. <i>Anthomyia</i>	36	1	1	17	
15. <i>Coenosia</i>	13				
16. <i>Lispe</i>	7				
17. <i>Cordylura</i>	2			1	
18. <i>Ochtera</i>	1	1			
19. <i>Scatophaga</i>	5	2		1	
20. <i>Dryomyza</i>	1			1	
21. <i>Sapromyza</i>	16	1	1	7	
22. <i>Ortalis</i>	16	2	2	7	
23. <i>Sepsis</i>	7	1		1	
24. <i>Cephalia</i>	3			3	
25. <i>Lauxania</i>	16		1	13	
26. <i>Lonchaea</i>	3		1	2	
27. <i>Trypeta</i>	58	3		17	4
28. <i>Dacus</i>	20			6	
29. <i>Tetanops</i>	1			1	
30. <i>Psila</i>	1				
31. <i>Loxocera</i>	1	1			

Appendix 1.

Family	Genera	Total number of species	NA	WI	SA	Mexico
XX. Fam. MUSCIDIAE (continued)						
	32. <i>Tanypeza</i>	3			3	
	33. <i>Chyliza</i>	4			1	
	34. <i>Calobata</i>	26	1	1	17	2
	35. <i>Micropeza</i>	4	1		2	
	36. <i>Nerius</i>	8			5	
	37. <i>Longina</i>	1			1	
	38. <i>Achias</i>	3			2	
	39. <i>Diopsis</i>	8	1			
	40. <i>Timia</i>	1				
	41. <i>Ulidia</i>	2			1	
	42. <i>Dictya</i>	1			1	
	43. <i>Platystoma</i>	3				
	44. <i>Ropalomera</i>	4			4	
	45. <i>Homalura</i>	4		1		
	46. <i>Sciomyza</i>	4			3	
	47. <i>Sepedon</i>	5				
	48. <i>Oscinis</i>	2				
	49. <i>Pyrgota</i>	1	1			
	50. <i>Tetanocera</i>	5			5	
	51. <i>Helomyza</i>	4	1		1	
	52. <i>Notiphila</i>	11			2	
	53. <i>Ephydra</i>	4		2		
	54. <i>Chlorops</i>	11		1	6	
	55. <i>Borborus</i>	2				
	56. <i>Stegana</i>	1			1	
	57. <i>Trineura</i>	1				
	58. <i>Celyphus</i>	2				
	59. <i>Hippobosca</i>	4				
	60. <i>Olfersia</i>	3	1			
	61. <i>Ornithomyia</i>	9	4		1	
	62. <i>Strebila</i>	1			1	
	63. <i>Melophaga</i>	3	1			
	Total in the family	645	36	24	240	7
GRAND TOTAL		2053	319	48	688	32