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## Catalogue of Neotropical Diptera. Cuterebridae<sup>1</sup>

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### Introduction

In the region covered by this catalogue, the Cuterebridae are represented by six genera and 37 species, as shown in the table below, plus eight unrecognized or unidentified species, and two *nomina nuda*.

Genus	Number of species
<i>Andinocuterebra</i>	1
<i>Cuterebra</i>	16
<i>Dermatobia</i>	1
<i>Metacuterebra</i>	14
<i>Pseudogametes</i>	2
<i>Rogenhoferia</i>	5

### Family Cuterebridae Brauer, 1863

Cuterebriden (vernacular) Brauer, 1863b: 64, 70. Type-genus, *Cuterebra* Clark, 1815.

Cuterebridae Brauer, 1887: 5.

Cuterebrinae Austen, 1895a: 378.

Cuterebrinae Bau, 1906: 24 (as subfamily of “Muscaridae”).

Pseudogametinae [sic] Townsend, 1911a: 139. Type-genus, *Pseudogametes* Bischoff, 1900.

Pseudogametini Townsend, 1911b: 329 (correction of ending without naming).

Cuterebrinae Townsend, 1913: 57.

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Dermatobiae Townsend, 1913: 57. Type-genus, *Dermatobia* Brauer, 1861.  
 Dermatobiinae Townsend, 1917: 23.  
 Pseudogametinae Townsend, 1917: 23.  
 Cuteribrinae Rodhain, 1927: 200.  
 Dermatobidae Bromley, 1937: 105.  
 Pseudomagetini Dalmat, 1942a: 23, 24, error.  
 Rogenhoferinae J. H. Guimarães, 1990: 255. Type-genus, *Rogenhoferia* Brauer, 1863.

### Genus **Andinocuterebra** J. H. Guimarães, 1984

**Andinocuterebra** J. H. Guimarães, 1984: 23. Type-species, *Andinocuterebra fassleri* J. H. Guimarães, 1984 (orig. des.).

**fassleri** J. H. Guimarães, 1984: 23. Type-locality: Colombia, Huila, río Aguacatal. Distr. – Colombia (Huila). Refs. – J. H. Guimarães, 1990: 261; J. H. Guimarães & Papavero, 1999: 202, fig. 96.

### Genus **Cuterebra** Clark, 1815

**Cuterebra** Clark, 1815: 64, 70. Type-species, *Oestrus cuniculi* Clark, 1797 (sub. des., Desmarest, 1859: 247, as “*Cuterebra cuniculi* Fabr.”).

*Trypoderma* Wiedemann in Meigen, 1824: 165. Type-species, *Musca americana* Fabricius, 1775 (sub. des., Wiedemann, 1830: 256).

*Curtebra* Blanchard, 1840: 607, error.

*Curterebra* Blanchard, 1845: 484, error.

*Cutiterebra* Agassiz, 1846: 108, unjust. emend.

*Cutirebra* Wulp, 1888: 1, error.

*Bogeria* Austen, 1895a: 391. Type-species, *Bogeria princeps* Austen, 1895 (orig. des.).

*Atrypoderma* Townsend, 1919: 592. Type-species, *Musca americana* Fabricius, 1775 (orig. des.).

*Cuterebra*, subg. *Orthocuterebra* Bau, 1929b: 542. Type-species, *Cuterebra lepusculi* Townsend, 1897 (sub. des., Aldrich, 1931: 117).

*Cuterebra*, subg. *Paracuterebra* Bau, 1929b: 543. Type-species, *Oestrus cuniculi* Clark, 1797 (sub. des., Aldrich, 1931: 117).

*Cuterebra*, subg. *Protocuterebra* Bau, 1929b: 543. Type-species, *Musca americana* Fabricius, 1775 (sub. des., Aldrich, 1931: 117).

*Atryposoma* Bau, 1931a: 20, error.

*Pseudobogeria* Bau, 1931b: 206. Type-species, *Oestrus buccatus* Fabricius, 1776 (orig. des.).

*Cuterebrella* J. H. Guimarães, 1984: 24, figs. 2-3. Type-species, *Cuterebra praegrans* Austen, 1933 (orig. des.). Refs. – Sabrosky, 1986: 22 (as ?syn.); J. H. Guimarães & Papavero, 1999: 203 (syn.).

Refs. – Dixon, Winkler & Nelson, 1969 (ophthalmomyiasis); Rice & Douglas, 1972 (human myiasis); Rodrigues, Weiss & Muncy, 1974 (ophthalmomyiasis); Scholten & Chrom, 1979 (human myiasis); Timm & Lee Jr., 1981 (effects on hosts); Baird, Podgore & Sabrosky, 1982 (myiasis in humans); Sabrosky, 1986: 43-55 (key to North and part of Central American spp.); Baird, Baird & Sabrosky, 1989 (human myiasis); Schiff, 1993 (furuncular cutaneous myiasis); Glasgow & Maggiano, 1995 (ophthalmomyiasis); Glass, Cornetta, Lahunta, Center & Kent, 1998 (myiasis of central nervous system in cats); J. H. Guimarães & Papavero, 1999: 203; Keth, 1999 (human myiasis); Cornet, Florent, Lefebvre, Wertheimer, Perez-Eid, Bangs & Bouvet, 2003 (tracheopulmonary myiasis, review).

**albipilosa** Sabrosky, 1986: 177. Type-locality: U. S. A., California, San Diego County, Summit Cowles Mt. Distr. – U. S. A. (Arizona, California, Colorado, New Mexico), Mexico (Baja California Sur).

**arizonae** Sabrosky, 1986: 186, map. 16. Type-locality: U. S. A., Arizona, Santa Cruz County, Madera Canyon, Santa Rita Mts. Distr. – U. S. A. (Arizona), Mexico (Sonora).

**atrox** Clark, 1848: unnumb. page, fig. 5. Type-locality: “Africa” [in error, actually Mexico]. Distr. – Southwestern U. S. A.

- (Arizona, Colorado, New Mexico, western Texas), and widespread in Mexico (Chihuahua to Nuevo León, south to Chiapas). Refs. – Brauer, 1863b: 229; Wulp, 1888: 2; Austen, 1895a: 378 (*Cutiterebra*), 1895b: 147 (*Cutiterebra*); Aldrich, 1905: 418 (cat.); Swenk, 1905: 182 (in key); Jones, 1906: 392 (in key); Townsend, 1927: 24; Bau, 1928a: 51 (in key), 1929a: 3 (in key), 1929b: 544 (*Cuterebra (Orhocuterebra)*), 1931: 207 (*Cuterebra (Atrypoderma)*); Austen, 1933: 701; Townsend, 1935: 220 (*Atrypoderma*); J.H. Guimarães, 1967: 2 (cat.); Sabrosky, 1986: 148, map 11, figs. 39-41; Papavero & Ibáñez Bernal, 2001: 89 (hist. Mexican dipterol.).
- similis* Johnson, 1903: 101. Type-locality: U. S. A., New Mexico, Beulah.
- americana* Fabricius of Johnson, 1903: 105, misident.
- austeni** Sabrosky, 1986: 189, map 17. Type-locality: U. S. A., Arizona, Pinal County. Distr. – U. S. A. (Arizona), Mexico (Sonora). Refs. – Baird, 1997: 690 (biol.); Wilson, Hnida & Duszynski, 1997: 359 (hosts); Colwell, Baird, Lee & Milton, 1999: 803 (SEM and morphometrics of egg); Kemp & Alcock, 2003: 290 (biol.); Alcock & Kemp, 2004: 273 (mating system).
- bajensis** Sabrosky, 1986: 163, map 13. Type-locality: Mexico, Baja California Norte, 8 km north of Punta Prieta. Distr. – U. S. A. (California), Mexico (Baja California Norte, Baja California Sur).
- buccata** (Fabricius), 1777: 305 (*Oestrus*). Type-locality: U. S. A., “Carolina” [i. e., South Carolina]. Distr. – U. S. A. (North Dakota to New Hampshire (or to Nova Scotia?), south to Texas and Florida, also New Mexico, Arizona), Mexico (Chiapas), Guatemala and Honduras. Refs. – Fabricius, 1781: 398 (*Oestrus*), 1787: 305 (*Oestrus*), 1794: 230 (*Oestrus*); Latreille, 1803: 50 (*Oestrus*); Fabricius, 1805: 227 (*Oestrus*); Olivier, 1812: 464 (*Oestrus*); Latreille, 1818: 270 (n. comb.); Meigen, 1824: 165 (*Trypoderma*); Wiedemann, 1830: 259 (*Trypoderma*); Macquart, 1835: 47; Harris, 1841: 420 (*Oestrus*); Brauer, 1863b: 230 (in key); Austen, 1895a: 384 (*Cutiterebra*); Johnson, 1895: 331; Johnson, *in* J. B. 1900: 667; Swenk, 1905: 182 (in key); Washburn, 1905: 138, fig. 130; Johnson *in* J. B. Smith, 1910: 774; Johnson, 1913: 69; Townsend, 1917: 24 (in key; *Bogeria*); Johnson, 1925a: 182 (*Bogeria*), 1925b: 91 (*Bogeria*); Bau, 1929a: 4 (in key), 1929b: 544 [*Cuterebra (Orthocuterebra)*], 1929c: 305, fig. 7; Painter, 1930: 32 (*Bogeria*); Bau, 1931b: 207 [*Cuterebra (Pseudobogeria)*]; Davis, 1937: 85; Knipling & Bruce, 1937: 48; Lindquist, 1937: 736; Brimley, 1938: 357; Townsend, 1938: 172 (*Pseudobogeria*); Knipling & Brody, 1940: 33, pls. 1-2; Dalmat, 1942c: 420, fig.; Haugen, 1942: 229; Dalmat, 1943a: 183; Bequaert, 1945: 176 (human myiasis); Jellison, 1949: 485; Beamer, 1950: 16; Penner, 1958: 67, figs. (of egg and 1st and 2nd instar larvae); Zimsen, 1964: 478 (*Oestrus*); Cole, 1970: fig. 355 (p. 585); Sabrosky, 1972: 94; Weisbroth, Wang & Scher, 1973: 22 (immune response in myiasis of domestic rabbits); Jacobson, McGinnes & Catts, 1978: 56 (biol.); Magnarelli & Andreadis, 1981: 894 (human myiasis); Sabrosky, 1986: 119, map 6, figs. 35-36; Nelder & Reeves, 2005: 316; Slansky, 2006: 154 (hosts).
- purivora* Clark, 1815: 70, pl. 2, fig. 29. Type-locality: “America”. Ref. – Sabrosky, 1972: 94 (LT selection).
- cuccatus* Harris, 1833: 594 (1835: 599), error.
- ?*cuniculi* Clark of Harris, 1833: 594 (1835: 599) and R. C. Smith, 1943: 374, misident.
- horripilum* Clark of Walker, 1849: 683, misident.
- buccator* Williston, 1884: 426, fig. 536, error.
- baccata* Lugger, 1896: 186, 1897: 229, fig. 186, error.
- bacata* Washburn, 1905: 137, error.
- scudderi* Townsend, 1917: 24 (in key), 27. Lectotype-locality: U. S. A., Washington, D. C. Refs. – Roberts, 1933: 159.
- sp.* Curran, 1934: 411, fig.
- buccatta* Eddy & Emerson, 1940: 45, error.
- clarki** Sabrosky, 1986: 145, map 10. Type-locality: Mexico, Nuevo León, El Diente, just outside Monterrey. Distr. – U. S. A. (Oklahoma), Mexico (Nuevo León, Tamaulipas).
- fontinella** Clark, 1827: 410. Lectotype-locality: U. S. A., Illinois. Distr. – Southern Canada, U. S. A. (except Alaska and Hawaii), Mexico (Nuevo León, Tamaulipas). Refs. – Clark, 1815: pl. 2, fig. 23 (unnamed); Joly, 1846: 289; Brauer, 1863b: 230 (in key), 242; Austen, 1895a: 384, 1895b: 152 (*Cutiterebra*); Coquillett, 1898: 9; Swenk, 1905: 182; Johnson, 1913: 70; Townsend, 1917: 24 (*Bogeria*); Cole & Lovett, 1921: 298; Johnson, 1925a: 182 (*Bogeria*); Bequaert, 1928: 805 (*Bogeria*); Bau, 1929a: 5 (in key), 1929b: 544 [*Cuterebra (Orthocuterebra)*]; Johnson, 1930: 283; Bau, 1931: 207 [*Cuterebra (Pseudobogeria)*]; Austen, 1933: 705; Greene, 1935 (biol.); Townsend, 1938: 173 (*Pseudobogeria*); Brimley, 1938: 357; Burt, 1940: 41 (as *Cuterebra* larvae; biol.); Scott & Smead, 1942: 94; Dalmat, 1942b: 47; Penner & Pocius, 1956 (biol.); Sillman, 1956, 1957a, 1957b (biol.); Miller & Getz, 1969 (biol.); Drummond, Gingrich & Gladney, 1970: 85 (used in tests for systemic insecticide); Sabrosky, 1972: 94 (LT des.); Gingrich, 1975: 67 (larval migration behavior in *Peromyscus leucopus*); Hensley, 1976: 172; Gingrich, 1979: 288; Parker & Chaney, 1979 (biol.); Timm & Cook, 1979: 211 (effect on reproduction in *Peromyscus leucopus*); Parker & Chaney, 1979: 573; Catts, 1982 (biol.); Pruett & Barrett, 1983: 113; Shiffer, 1983 (aggregation behavior); Goddard, Baker & Norment, 1986: 128; Sabrosky, 1986: 70, map 2, frontispiece, figs. 13, 20-21; Cogley, 1991: 275; Durden, 1995: 787; Colwell, Baird, Lee & Milton, 1999: 803 (SEM and morphometrics of egg); Wolf & Batzli, 2001: 106; Noël, Tessier, Angers, Wood & Lapointe, 2004: 161; Cramer & Cameron, 2006: 1103; Jennison, Rodas & Barrett, 2006:

- 157; Slansky, 2006: 154 (hosts); Slansky & Huckabee, 2006: 1369 (in *Procyon lotor* (Carnivora, Procyonidae)); Cramer & Cameron, 2007: 1419; Barrett & Feldhammer, 2008.
- fontanella* Clark, 1843: 88 and Walker, 1849: 100, error.
- americana* Fabricius of Walker, 1849: 683, misident.
- cuniculi* Clark of Johnson, 1895: 331, misident.
- frontinella* Fletcher & Gibson, 1908: 38, error.
- sp.* Townsend, 1911a: 137 (descr. of egg).
- buccata* Fabricius of Johnson, 1913: 69, misident.
- fasciata* Swenk of Townsend, 1917: 24 (*Bogeria*), and Cameron, 1926: 430, misident.
- peromysci* Dalmat, 1942b: 45 (descr., 3 larval stages, puparium). Type-locality: U. S. A., Iowa, Ames. Ref. – Dalmat, 1942c: 419, 1943: 311; Jellison, 1949: 485.
- angustifrons* Dalmat, 1942c: 418. Type-locality: U. S. A., Iowa, Ames. Ref. – Sillman, 1957a: 28 (ecol., life history); Sillman & Smith, 1959: 165 (exp. infestation of *Peromyscus leucopus* with larvae); Shoemaker & Joy, 1968: 78; Getz, 1970: 187; Sabrosky, 1972: 94 (syn.); Hunter & Webster, 1973: 1301.
- sp.* Sillman, 1956: 89.
- histrio** Coquillett, 1902: 103. Type-locality: Mexico, Guanajuato. Distr. – Mexico (Chihuahua, Durango, Guanajuato, San Luís Potosí, Veracruz, Zacatecas). Refs. – Swenk, 1905: 182 (in key); Townsend, 1917: 24 (in key), 25; Bau, 1929a: 4 (in key), 1929a: 544 [*Cuterebra* (*Orthocuterebra*)], 1931a: 20 (fig. 2) [*Cuterebra* (*Cuterebra*)], 1931b: 205 [*Cuterebra* (*Cuterebra*)]; J.H. Guimarães, 1967: 3 (cat.); Sabrosky, 1986: 168, map 13, fig. 44.
- americana* Fabricius of Wulp, 1888: 1, part, misident.
- lepusculi** Townsend, 1897: 8. Type-locality: U. S. A., New Mexico, Doña Ana. Distr. – U. S. A. Washington to South Dakota, south to California and Texas), Mexico (Morelos). Refs. – Swenk, 1905: 182 (in key); Bau, 1929a: 4, 1929b: 544 [*Cuterebra* (*Orthocuterebra*)]; Aldrich, 1931: 117; Bau, 1931b: 206 [*Cuterebra* (*Pseudobogeria*)]; Townsend, 1931: 79 (as syn. of *princeps* Austen, 1895); Curran, 1942: 79 (in key); Dalmat, 1943a: 182 (as syn. of *princeps* Austen, 1895); Chilcott, 1965: 1110 (as syn. of *princeps* Austen, 1895); J.H. Guimarães, 1967: 3 (cat.; as syn. of *princeps* Austen, 1895); Baird, 1983: 214 (biol.); Sabrosky, 1986: 114, map 5, figs. 28, 34; Pfaffenberger & Valencia, 1988: 842; Colwell, Baird, Lee & Milton, 1999: 803 (SEM and morphometrics of egg).
- sp.* Townsend, 1892: 291.
- fontinella* Clark of Townsend, 1893: 317, 1895a: 64, 1895b: 618, and Honess & Winter, 1956: 239, fig. 115, misident.
- sp.* Austen, 1895a: 384, 1895b: 152 (*Cutiterebra*).
- buccata* Fabricius of Baker, 1904: 35, misident.
- albifrons* Swenk, 1905: 182. Type-locality: U. S. A., Wyoming, Hecla. Ref. – Bau, 1929a: 4, 1929b: 77 [*Cuterebra* (*Orthocuterebra*)], 1931b: 206 [*Cuterebra* (*Pseudobogeria*)]; J.H. Guimarães, 1967: 3 (cat.; as syn. of *princeps* Austen, 1895).
- subbuccata* Bau, 1929c: 305, figs. 4, 6. Type-locality: U. S. A., Nevada, Carson City County (as Ormsby County). Ref. – Bau, 1931b: 206 [*Cuterebra* (*Pseudobogeria*)].
- maculosa** Knab, 1914: 187. Lectotype-locality: Panama, Canal Zone. Distr. – Guatemala, Panama. Refs. – Townsend, 1917: 24 (in key), 1919: 592; Bau, 1931: 205 [*Cuterebra* (*Cuterebra*)]; Fairchild, 1943: 577; J.H. Guimarães, 1967: 3 (cat.); Sabrosky, 1986: 95.
- postica** Sabrosky, 1986: 140. Type-locality: Mexico, Morelos. Distr. – Mexico (Morelos, Oaxaca).
- praegrans** Austen, 1933: 706, pl. 1, figs. 6-7. Type-locality: Peru, Loreto, Iquitos. Distr. – Peru (Loreto), Brazil (Pará). Refs. – J. H. Guimarães, 1967: 3 (cat.), 1984: 25 (*Cuterebrella*); J. H. Guimarães & Papavero, 1999: 203, figs. 98, 110, 118.
- princeps** (Austen), 1895: 105, pl. 13, fig. 5 (*Bogeria*) (also puparium described). Type-locality: Mexico, Sonora, Médano Blanco, Santa Bárbara Bay, Gulf of California. Distr. – U. S. A. (Arizona), Mexico (Sonora). Refs. – Brauer, 1895: 591 (*Bogeria*); Coquillett, 1910: 515 (*Bogeria*); Townsend, 1917: 24 (in key), 25 (*Bogeria*); Bau, 1931b: 198, 206 (*Bogeria*); Townsend, 1931: 79 (*Bogeria*), 1938: 169 (*Bogeria*); Curran, 1942: 79 (n. comb.); J.H. Guimarães, 1967: 3 (cat.); Cole, 1970: 586, 587; Sabrosky, 1986: 105, map 4, fig. 31.
- sabroskyi** (J. H. Guimarães), 1984: 26, fig. 5 (*Cuterebrella*). Type-locality: Brazil, São Paulo, São Paulo (Pico do Jaraguá). Distr. – Brazil (São Paulo). Ref. – J. H. Guimarães & Papavero, 1999: 204, fig. 99.
- sp. near albipilosa** Sabrosky, 1986: 179 (U. S. A.: Texas; Mexico, Coahuila, San Luís Potosí).
- terrisona** Walker, 1849: 683. Type-locality: “Guatemala”. Distr. – Central and southern Mexico (México, Nayarit, Oaxaca, Chiapas) south to Guatemala and El Salvador. Refs. – Brauer, 1863b: 230 (in key; as syn. of *americana* Fabricius, 1775); Wulp, 1888: 1 (as syn. of *americana* Fabricius, 1775); Austen, 1895b: 147 (*Cutiterebra*; as syn. of *atrox* Clark, 1848); Swenk, 1905: 182 (in key; as syn. of *atrox* Clark, 1848); Bau, 1928: 51 (as syn. of *atrox* Clark, 1848), 1929a: 3 (in key; as syn. of *atrox* Clark, 1848), 1931b: 207 [*Cuterebra* (*Atrypoderma*)], as syn. of *atrox* Clark, 1848); Austen, 1933: 702 (as syn. of *atrox* Clark, 1848); J.H. Guimarães, 1967: 4 (cat.); Sabrosky, 1986: 152, map 11.
- approximata* Walker of Wulp, 1888: 2, misident., part (only his Guatemala record).



Genus **Dermatobia** Brauer, 1861

**Dermatobia** Brauer, 1861: 783. Type-species, *Cuterebra cyaniventris* Macquart, 1843 (sub. des., J.H. Guimarães & Papavero, 1966: 228) = *hominis* (Linnaeus Jr., 1781).

**hominis** (Linnaeus Jr.) in Pallas, 1781: 158 (*Oestrus*). Type-locality: “Peru”. Distr. – U. S. A. to Argentina, but not in Chile. Refs. – Gmelin, 1788: 2811 (*Oestrus*); Brauer, 1861: 783; Bau, 1922 (*Oestrus*); J. H. Guimarães, 1966 (aggregation habit of males); J.H. Guimarães, 1967: 5 (cat.); J.H. Guimarães & Papavero, 1999: 261, figs. 2, 76, 107, 109, 128 (history of studies, common names, characterization and distribution, list of vectors, pathogeny, diagnostic, treatment and control, bibliography).

*humanus* Howship, 1833: 181 (larva) (*Oestrus*) Type-locality: Colombia, Tolima, Mariquita.

*cyaniventris* Macquart, 1843: 23 (*Cuterebra*). Type-locality: “Brazil”.

*noxialis* Goudot, 1845: 229, pl. 4bis, figs. 1-5 (*Cuterebra*). Type-locality: Colombia, Caldas, Marmato.

Genus **Metacuterebra** Bau, 1929

*Cuterebra*, subg. **Metacuterebra** Bau, 1929b: 544. Type-species, *Cuterebra apicalis* Guérin-Ménéville, 1835 (sub. des., Bau, 1931b: 208).

*Alouattamyia* Townsend, 1931: 319. Type-species, *Cuterebra baeri* Greene, 1925 (orig. des.).

*Oricuterebra* Bau, 1931b: 210. Type-species, *Cuterebra sarcophagoides* Lutz (orig. des.).

*Baucuterebra* L. R. Guimarães & Carrera, 1941: 2. Type-species, *Cuterebra schroederi* Enderlein (sub. des., Townsend, 1942 (Addenda & Corrigenda): 333).

*Montemyia* Dalmat, 1942a: 25. Type-species, *Montemyia bureni* Dalmat, 1942 (orig. des.).

Refs. – J. H. Guimarães, 1971 (hosts); J. H. Guimarães & Papavero, 1999: 211 (key to spp.).

**almeidai** (L. R. Guimarães & Carrera), 1941: 2, figs. 1-3 (*Baucuterebra*). Type-locality: Brazil, Amazonas, Cachoeira Taurino. Distr. – Brazil (Amazonas, Pará), Argentina. Refs. – J. H. Guimarães, 1967: 2 (cat.); J. H. Guimarães & Papavero, 1999: 213, fig. 90 (this species is probably a variation of *Metacuterebra funebris* (Austen). However, as only a few specimens of *almeidai* are available to evaluate the variation of the chromatic characters of pleural pilosity, we maintain it as a valid species); Pinto & Claps, 2005: 572 (Argentina record).

**apicalis** (Guérin-Ménéville), 1835: pl. 101, fig. 1 (*Cuterebra*). Type-locality: “America”. Distr. – South Mexico to Argentina (Mendoza). Refs. – Brauer, 1863b: 237, 239 (*Cuterebra*); Wulp, 1888: 2 (*Cuterebra*); Bau, 1906: 25, pl. 2, fig. 17 (*Cuterebra*); Lutz, 1917: 47 (*Cuterebra*); Bau, 1929a: 6, 1929b: 544 (*Cuterebra*), 1931b: 208 (*Cuterebra*); Fonseca, 1938: 314 (*Cuterebra*), 1940: 665; Henriksen, 1942: 284 (*Cuterebra*; hosts, larva); Forattini & Lenko, 1959: 155 (*Cuterebra*; descr. of pupa); d’Andretta Jr. & Jardim, 1954: 67 (*Cuterebra*); Del Ponte, 1959: 755 (*Cuterebra*); J. H. Guimarães, 1967: 2 (cat.), 1971: 90 (hosts) (*Cuterebra*); Led, Colacelli, Boero & Colombo, 1976: 35 (in *Rattus norvegicus*); Mello, 1978: 329 (*Cuterebra*; biol.); Leite, Guimarães & Lima, 1986: 89 (ESM study of egg); Leite & Williams, 1988a: 485 (life cycle), 1989: 189 (egg and first instar larva); Bossi & Bergallo, 1992: 142 (in *Oryzomys nitidus* (Rodentia: Cricetidae) and *Metachirus nudicaudatus* (Marsupialia: Didelphidae)); Vieira, 1993: 792 (hosts in “cerrado” [savanna] from Central Brazil), J.H. Guimarães & Papavero, 1999: 213, figs. 100, 105, 117; Pujol-Luz, Mendonça & Henriques, 2004: 669 (*Gracilinanus agilis* (Marsupialia, Didelphidae) as host, Brasília, D. F.); Pinto & Claps, 2005: 572 (Argentina, in *Oligoryzomys longicaudatus* and *Akodon caenosus* (Rodentia: Muridae)).

*analis* Macquart, 1843: 22, pl. 2, fig. 5 (*Cuterebra*). Type-locality: “Brazil”. Refs. – Joly, 1846: 278, fig. 7; Brauer, 1863b: 237, pl. 4, fig. 1, pl. 6, fig. 8; Austen, 1895a: 386 (*Cutiterebra*).

*cometes* Shannon & Del Ponte, 1926: 42 (*Cuterebra*). Type-locality: Argentina, Tucumán, Quebrada de Lules. Refs. – Del Ponte, 1939: 527; J. H. Guimarães, 1967: 2 (cat.); J. H. Guimarães & Papavero, 1999: 213 (syn.).

*pusilla* Bau, 1931b: 212, pl. 17, fig. 2, pl. 2, fig. 16 (*Cuterebra*). Type-locality: Bolivia, Mapiari, Sarampiuni. Refs. – Ref. – J.H. Guimarães, 1967: 3 (cat.; *Cuterebra*); J.H. Guimarães & Papavero, 1999: 213 (syn.).

**baeri** (Greene), 1925: 160 (*Cuterebra*). Type-locality: Guyana, Bartica, Kartabo. Distr. – Costa Rica, Panama, Guyana, Peru, Brazil (Amazonas, Pará). Refs. – Shannon & Greene, 1926: 286, pls. 152-153 (*Cuterebra*); Townsend, 1931: 319 (*Alouattamyia*); Carpenter, 1934; Dunn, 1934; Zeledón, Jiménez & Brenes, 1957: 129 (*Cuterebra*; larva); J. H. Guimarães, 1967: 1 (cat., *Allouattamyia*), 1971 (*Alouattamyia*); J. H. Guimarães & Coimbra, 1982: 35; Fraiha Neto, Chaves, Borges & Freitas, 1984: 63 (*Alouattamyia*); Dudley & Milton, 1990 (*Alouattamyia*); Baron, Colwell &

- Milton, 1996: 946 (*Alouattamyia*); Milton, 1996: 39 (*Aloattamyia*); Colwell & Milton, 1998: 674 (*Alouattamyia*; development in *Alouatta palliata*); Stuart, Pendergast, Rumfelt, Pierberg, Greenspan, Glander & Clarke, 1998 (*Alouattamyia*); J. H. Guimarães & Papavero, 1999: 222, figs. 87, 111, 123 (n. comb.); Colwell, Baird, Lee & Milton, 1999: 803 (*Alouattamyia*; SEM and morphometrics of egg).
- bureni** (Dalmat), 1942a: 25, pl. 2 (*Montemyia*). Type-locality: Costa Rica, Monte Redondo. Distr. – Costa Rica. Ref. – J. H. Guimarães, 1967: 5 (cat.).
- cayennensis** (Macquart), 1843: 23 (*Cuterebra*). Type-locality: French Guiana, Cayenne. Distr. – Nicaragua, Panama, Surinam, French Guiana, Brazil (Pará). Refs. – Joly, 1846: 289 (*Cuterebra*); Brauer, 1863b: 240 (*Cuterebra*); J. H. Guimarães, 1967: 2 (cat.; *Cuterebra*); J.H. Guimarães & Papavero, 1999: 224, figs. 86, 93, 112.
- pygmaea* Bau, 1931b: 251, pl. 5, fig. 5 (*Cuterebra*). Type-locality: Brazil, Pará, ilha de Marajó. Refs. – J. H. Guimarães, 1967: 3 (cat.; *Cuterebra*); J.H. Guimarães & Papavero, 1999: 224 (syn.).
- lepida* Austen, 1933: 707, pl. 1, fig. 8 (*Cuterebra*). Type-locality: “Nicaragua”. Refs. – J. H. Guimarães, 1967: 3 (cat.; *Cuterebra*); J.H. Guimarães & Papavero, 1999: 224 (syn.).
- detrudatrix** (Clark), 1848: fig. 4 (*Cuterebra*, as *detrudator*). Type-locality: “South America”. Distr. – Panama, Trinidad, Surinam, Ecuador, Peru, Brazil (Amazonas, Pará, Espírito Santo, São Paulo, Paraná). Refs. – Brauer, 1863b: 49 (*Cuterebra*); Bau, 1931b: 233 (*Cuterebra*); J. H. Guimarães, 1967: 2 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 225, figs. 104, 114.
- nigricincta* Austen, 1895a: 388, pl. 13, figs. 4, 4a (*Cutiterebra*). Type-locality: Brazil, Pará. Refs. – Bau, 1931b: 233 (*Cuterebra*); Austen, 1895b: 149 (*Cutiterebra*; syn.), 1933: 710; J. H. Guimarães, 1967: 3 (cat.; *Cuterebra*).
- schroederi* Enderlein, 1909: 202 (*Cutiterebra*). Type-locality: Peru, Chanchamayo. Refs. – Bau, 1929c: 307, fig. 5; J. H. Guimarães, 1967: 4 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 225 (syn.).
- nigricans* Lutz, 1917: 99 (1918: 123), pl. 27, fig. 2, pl. 29, fig. 2 (*Cuterebra*). Type-locality: Brazil, São Paulo, Porto Martins. Ref. – J. H. Guimarães, 1967: 3 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 225 (syn.).
- conflans* Bau, 1929c: 303, figs. 1-2 (*Cuterebra*; as *conflans conflans*). Type-locality: Peru, Junín, Chanchamayo. Refs. – Bau, 1931b: 225; J. H. Guimarães, 1967: 2 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 225 (syn.).
- obidosiana* Bau, 1929c: 305 (*Cuterebra*; as *conflans* spp.). Type-locality: Brazil, Pará, Óbidos. Refs. – Bau, 1931b: 233 (*Cuterebra*); J. H. Guimarães, 1967: 2 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 225 (syn.).
- dorsalis* Bau, 1929c: 305, fig. 3 (1930: 83) (*Cuterebra*). Type-locality: “South America”. Refs. – J. H. Guimarães, 1967: 3 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 225 (syn.).
- pulchra* Bau, 1930: 85, fig. 4 (*Cuterebra*). Type-locality: “South America”. Refs. – J. H. Guimarães, 1967: 3 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 225 (syn.).
- versicolora* Bau, 1930: 85, fig. 4 (*Cuterebra*, as *versicolora versicolora*). Type-locality: “Surinam”. Refs. – J. H. Guimarães, 1967: 4 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 225 (syn.).
- bicincta* Bau, 1931b: 221, pl. 1, fig. 6, pl. 2, fig. 17 (*Cuterebra*). Type-locality: “Surinam”. Refs. – J. H. Guimarães, 1967: 4 (cat.; *Cuterebra*, as *versicolora* ssp.); J. H. Guimarães & Papavero, 1999: 225 (syn.).
- worontzowi* L. R. Guimarães & Carrera, 1941: 6, figs. 7-9 (*Cuterebra*). Type-locality: Brazil, Amazonas, rio Paruari. Refs. – J. H. Guimarães, 1967: 4 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 225 (syn.).
- funebri** (Austen), 1895a: 378, pl. 13, figs. 1, 16 (*Cutiterebra*). Type-locality: “Trinidad”. Distr. – Trinidad, Brazil (Goiás). Refs. – Bau, 1931b: 230 (*Cuterebra*); Austen, 1933: 704 (*Cuterebra*); J. H. Guimarães, 1967: 3 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 227.
- ribeiroi* Artigas & d’Andretta Jr., 1951: 60, figs. 1-3 (*Alouattamyia*). Type-locality: Brazil, Goiás, Aruanã, rio Vermelho. Ref. – J. H. Guimarães, 1967: 4 (cat.; *Cuterebra*).
- infulata** (Lutz), 1917: 99, pl. 27, fig. 4, pl. 29, fig. 4 (*Cuterebra*). Type-locality: Brazil, Rio de Janeiro, Petrópolis. Distr. – Brazil (Pernambuco, Rio de Janeiro, São Paulo, Rio Grande do Sul). Refs. – J.H. Guimarães, 1967: 3 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 227, figs. 92, 121.
- bau* Fonseca, 1940: 667, figs. 1-3 (*Oricuterebra*). Type-locality: Brazil, São Paulo. Refs. – J. H. Guimarães, 1967: 2 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 227 (syn.).
- rubiginosa* Bau, 1931b: 214, pl. 1, fig. 9, pl. 2, fig. 15 (*Cuterebra*). Type-locality: Brazil, Rio Grande do Sul, Santa Cruz. Refs. – J. H. Guimarães, 1967: 4 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 227 (syn.).
- megastoma** (Brauer), 1863: 247, pl. 4, fig. 5, pl. 6, fig. 12 (*Cuterebra*). Type-locality: “South America”. Distr. – Brazil (Minas Gerais, São Paulo, Rio de Janeiro, Santa Catarina, Rio Grande do Sul). Refs. – J. H. Guimarães, 1967: 3 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 228, figs. 95, 119.
- sarcophagoides* Lutz, 1917: 99 (1918: 123), pl. 27, fig. 5, pl. 29, fig. 5. Type-locality: Brazil, São Paulo, Jacutinga. Refs. – J. H. Guimarães, 1967: 4 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 228 (syn.).
- patagona** (Guérin-Ménéville), 1844: 548 (*Cuterebra*). Type-locality: Argentina, Patagonia. Distr. – Argentina (Misiones, Chubut, La Pampa, Santa Cruz). Refs. – Del Ponte, 1939: 527 (*Cuterebra*); J. H. Guimarães, 1967: 3 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 229, fig. 88.

- pessoai** (L. R. Guimarães & Carrera), 1941: 4, figs. 4, 6 (*Cuterebra*). Type-locality: Brazil, Amazonas, rio Negro. Distr. –Trinidad, Brazil (Amazonas). Refs. – J.H. Guimarães, 1967: 3 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 230, fig. 91.
- rufiventris** (Macquart), 1843: 21, figs. 4, 4b (*Cuterebra*). Type-locality: Brazil, Pará [*i.e.*, Belém]. Distr. – Ecuador, Peru, Brazil (Amazonas, Pará, Mato Grosso do Sul, Rio de Janeiro, Santa Catarina). Refs. – Brauer, 1863b: 245 *Cuterebra*; Austen, 1895a: 387, pl. 13, figs. 3, 3a (*Cutierebra*); Bau, 1906: 26 (*Cuterebra*); Lutz, 1917: 89 (*Cuterebra*); Bau, 1931b: 225 (*Cuterebra*); Austen, 1933: 705 (*Cuterebra*); J. H. Guimarães, 1967: 4 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 231, fig. 120.
- schmalzi** Lutz, 1917: 100 (1918: 124), pl. 27, fig. 3, pl. 24, fig. 3 (*Cuterebra*). Type-locality: Brazil, Santa Catarina, Joinville. Refs. – Bau, 1929a: 7 (*Cuterebra*); J. H. Guimarães, 1967: 4 (cat.; *Cuterebra*); Leite, Falquete & Guimarães, 1985: 835 (*Cuterebra*; host); J. H. Guimarães & Papavero, 1999: 231 (syn.).
- elegans** Bau, 1931b: 227 (*Cuterebra*, as *rufiventris* ssp.). Type-locality: Peru, Junín, Chanchamayo. Refs. – J. H. Guimarães, 1967: 4 (cat.; *Cuterebra*, as *rufiventris* ssp.); J. H. Guimarães & Papavero, 1999: 231 (syn.).
- simulans** (Austen), 1933: 709 (*Cuterebra*). Type-locality: “Peru”. Distr. – Surinam, Peru, Brazil (Pará). Refs. – J. H. Guimarães, 1967: 4 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 2302, fig. 89.
- townsendi** (Fonseca), 1941: 483, fig. 1 (*Oricuterebra*). Type-locality: Brazil, São Paulo, São Paulo. Distr. – Brazil (São Paulo). Refs. – J. H. Guimarães, 1967: 4 (cat.; *Cuterebra*); J. H. Guimarães & Papavero, 1999: 233, figs. 94, 106, 115.

#### Unrecognized or unidentified species of *Cuterebra* and *Metacuterebra*

- ephippium** Latreille, 1818: 271 (*Cuterebra*). Type-locality: French Guiana, Cayenne. Refs. – J.H. Guimarães, 1967: 3 (cat.; *Cuterebra*); J.H. Guimarães & Papavero, 1999: 234.
- flaviventris** Bau, 1931b: 219, pl. 1, fig. 10 (*Metacuterebra*). Type-locality: “Mexico”. Ref. – J.H. Guimarães, 1967: 3 (cat.; *Cuterebra*).
- lutzi** Bau, 1930: 81 (*Cuterebra*). Type-locality: “Peru” and “Brazil”. Refs. – J.H. Guimarães, 1967: 3 (cat.; *Cuterebra*); J.H. Guimarães & Papavero, 1999: 234.
- ornata** Bau, 1928a: 50 (*Cuterebra*). Type-locality: “Costa Rica”. Ref. – J.H. Guimarães, 1967: 3 (cat.; *Cuterebra*).
- semilutea** Bau, 1929a: 1, figs. 1-2 (*Cuterebra*). Type-locality: “Brazil”. Ref. – J.H. Guimarães, 1967: 4 (cat.; *Cuterebra*); J.H. Guimarães & Papavero, 1999: 234.
- sp.** Adler, Davis & Carvajal, 2003: 693 (*Cuterebra*). [Panama, in *Proechimys semispinosus* (Rodentia, Echimyidae)].
- sp.** Led & Brandelli, 1978: 29 (*Cuterebra*) [Chile, in *Chinchilla lanigera* (Rodentia, Chinchillidae)].
- sp.** Manrique-Saide, Hernandez-Betancourt & Quintero, 2000: 487 (*Cuterebra*) [Mexico, Yucatán; in *Ototylomys phyllotis* (Rodentia: Muridae)].

#### Genus *Pseudogametes* Bischoff, 1900

- Pseudogametes** Bischoff, 1900a: 131 (1900b: 490). Type-species, *Pseudogametes hermanni* Bischoff, 1900 (orig. des.).
- Xylocopodes* Townsend, 1927: 207. Type-species, *Musca semiatra* Wiedemann, 1830 (orig. des.). Ref. – J. H. Guimarães, 1967: 5 (cat.; syn.).

Ref. – J. H. Guimarães & Papavero, 1999: 205 (key to spp.).

- hermanni** Bischoff, 1900a: 131 (1900b: 490, figs. 1-3). Type-locality: Brazil, Minas Gerais. Refs. – Lutz, 1917: 102 (1918: 126), pl. 28, fig. 7; J. H. Guimarães, 1967: 5 (cat.); J. H. Guimarães & Papavero, 1999: 206, figs. 102, 108.
- semiater** (Wiedemann), 1830: 421 (*Musca*). Type-locality: “Brazil”. Distr. – Brazil (Minas Gerais, Rio de Janeiro, São Paulo). Refs. – Lutz, 1917: 102 (1918: 126); Townsend, 1927: 207 (as *Xylocopodes semiatra*); J. H. Guimarães, 1967: 5 (cat.); J. H. Guimarães & Papavero, 1999: 205, fig. 122.

#### Genus *Rogenhofera* Brauer, 1863

- Rogenhofera** Brauer, 1863a: 325 (1863b: 215, 217). Type-species, *Rogenhofera trigonophora* Brauer, 1862 (mon.). *Rogenhoferia*, error or emend.

*Guerinioestrus* Townsend, 1931: 319. Type-species, *Cephenemyia grandis* Guérin-Ménéville,

Refs. – Scaglia & Velásquez, 1982; J. H. Guimarães & Papavero, 1999: 207 (key to spp.).

**dasypoda** Brauer, 1896: 272. Type-locality: Brazil, Espírito Santo. Distr. – Brazil (Espírito Santo, Rio de Janeiro, São Paulo). Refs. – Lutz, 1917: 100 (1918: 124), pl. 28, fig. 8; Bau, 1928b: 300; J. H. Guimarães, 1967: 5 (cat.), 1990: 256; J. H. Guimarães & Papavero, 1999: 207, figs. 97, 103, 106.

**gilvopilosa** Bau, 1932: 11. Type-locality: Peru, Arequipa, Puno. Distr. – Peru (Arequipa). Refs. – J. H. Guimarães, 1967: 5 (cat.); J. H. Guimarães & Papavero, 1999: 208.

**grandis** (Guérin-Ménéville), 1844: 548 (*Cephenemyia*). Type-locality: Argentina, Patagonia. Distr. – Argentina (Córdoba, Buenos Aires, Patagonia). Refs. – Brauer, 1863b: 213; Bau, 1906: 24; Townsend, 1931: 318; Bau, 1932: 11; Del Ponte, 1939: 528; J. H. Guimarães, 1967: 5 (cat.); J. H. Guimarães & Papavero, 1999: 108, fig. 113.

*bonaerensis* Del Ponte, 1939: 529 (*Guerinioestrus*). Type-locality: Argentina, Buenos Aires. Refs. – J. H. Guimarães, 1967: 4 (cat.); Brigada, Tripole & Zuleta, 1992: 646 (in *Akodon molinae* (Rodentia: Cricetidae), Argentina); J. H. Guimarães & Papavero, 1999: 208 (syn.); Zuleta & Vignau, 1990: 11 (biol.).

*daguerrei* Del Ponte, 1939: 530. Type-locality: “Argentina”. Refs. – Del Ponte, 1959: 575; J. H. Guimarães, 1967: 5 (cat.); J. H. Guimarães & Papavero, 1999: 208 (syn.).

**lopesi** J. H. Guimarães, 1990: 256. Type-locality: Brazil, Goiás, Parque Nacional das Emas. Distr. – Brazil (Goiás). Ref. – J. H. Guimarães & Papavero, 1999: 209.

**trigonophora** Brauer, 1863a: 326 (1863b: 217, pl. 6, fig. 14, pl. 10, fig. 5). Type-locality: Brazil, Bahia. Distr. – Brazil (Bahia, Rio de Janeiro, São Paulo). Refs. – Lutz, 1917: 101 (1918: 125); J. H. Guimarães, 1967: 5 (cat.); J. H. Guimarães & Papavero, 1999: 210.

*trigonocephala* Lutz, 1917: 96, error.

### Nomina nuda

**jorgenseni** Del Ponte, 1959: 575 (*Metacuterebra*).

**vianai** Del Ponte, 1959: 575 (*Guerinioestrus*).



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