

## FORMICIDAE: CATALOGUE OF FAMILY-GROUP TAXA

[Note (i): the standard suffixes of names in the family-group, -oidea for superfamily, -idae for family, -inae for subfamily, -ini for tribe, and -ina for subtribe, did not become standard until about 1905, or even much later in some instances. Forms of names used by authors before standardisation was adopted are given in square brackets [...] following the appropriate reference.]

[Note (ii): Brown, 1952g:10 (footnote), Brown, 1957i: 193, and Brown, 1976a: 71 (footnote), suggested the suffix -iti for names of subtribal rank. These were used only very rarely (*e.g.* in Brandão, 1991), and never gained general acceptance. The International Code of Zoological Nomenclature (ed. 4, 1999), now specifies the suffix -ina for subtribal names.]

[Note (iii): initial entries for each of the family-group names are rendered with the most familiar standard suffix, not necessarily the original spelling; hence Acanthostichini, Cerapachyini, Cryptocerini, Leptogenyini, Odontomachini, *etc.*, rather than Acanthostichii, Cerapachysii, Cryptoceridae, Leptogenysii, Odontomachidae, *etc.* The original spelling appears in **bold** on the next line, where the original description is cited.]

ACANTHOMYOPSINI [junior synonym of Lasiini]

**Acanthomyopsini** Donisthorpe, 1943f: 618. Type-genus: *Acanthomyops* Mayr, 1862: 699.

### Taxonomic history

Acanthomyopsini as tribe of Formicinae: Donisthorpe, 1943f: 618; Donisthorpe, 1947c: 593; Donisthorpe, 1947d: 192; Donisthorpe, 1948d: 604; Donisthorpe, 1949c: 756; Donisthorpe, 1950e: 1063.

Acanthomyopsini as junior synonym of Lasiini: Bolton, 1994: 50; Bolton, 1995b: 8; Bolton, 2003: 21, 94; Ward, Blaimer & Fisher, 2016: 347.

ACANTHOSTICHINI [junior synonym of Dorylinae]

**Acanthostichii** Emery, 1901a: 34. Type-genus: *Acanthostichus* Mayr, 1887: 549.

### Taxonomic history

Acanthostichini as tribe of Dorylinae: Emery, 1901a: 34 [Dorylinae, group Cerapachinae, tribe Acanthostichii]; Emery, 1904a: 116 [Acanthostichii]; Smith, D.R. 1979: 1333 [Acanthostichini].

Acanthostichini as subfamily of Dorylidae: Ashmead, 1905b: 382 [Acanthostichinae]; Ashmead, 1906: 28 [Acanthostichinae].

Acanthostichini as tribe of Ponerinae: Emery, 1911d: 12 [Acanthostichini]; Forel, 1917: 239 [Acanthostichini]; Gallardo, 1918b: 6; Donisthorpe, 1943f: 619; Brown, 1975: 39; Dlussky & Fedoseeva, 1988: 79; Hölldobler & Wilson, 1990: 10.

Acanthostichini as tribe of Cerapachyinae: Wheeler, W.M. 1902d: 184 [Acanthostichii]; Wheeler, W.M. 1910g: 137 [subtribe of Cerapachysii]; Wheeler, W.M. 1922a: 640 [Acanthostichini]; Kempf, 1972a: 263; Wheeler, G.C. & Wheeler, J. 1985: 256; Bolton, 1990a: 67; Bolton, 1990c: 1357; Brandão, 1991: 390; Jaffe, 1993: 9; Bolton, 1994: 19; Bolton, 1995b: 8; Bolton, 2003: 33, 137.

Acanthostichini as junior synonym of Dorylinae: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

ADELOMYRMECINI [junior synonym of Solenopsidini]

**Adelomyrmecini** Fernández, 2004b: 325. Type-genus: *Adelomyrmex* Emery, 1897c: 590.

### Taxonomic history

Adelomyrmecini as tribe of Myrmicinae: Fernández, 2004b: 325.

Adelomyrmecini as junior synonym of Solenopsidini: Ward, *et al.* 2015: 77.

AENICTINI [junior synonym of Dorylinae]

**Aenictii** Emery, 1901a: 36. Type-genus: *Aenictus* Shuckard, 1840b: 266.

### Taxonomic history

Aenictini as tribe of Dorylinae: Emery, 1901a: 36 [Aenictii]; Emery, 1904a: 116 [Aenictii]; Borgmeier, 1954c: 212; Borgmeier, 1955: 57; Dlussky & Fedoseeva, 1988: 79; Hölldobler & Wilson, 1990: 11.

Aenictini as tribe of Ecitoninae: Ashmead, 1905b: 381 [Aenictini]; Ashmead, 1906: 24.

Aenictini as junior synonym of Ecitonini: Emery, 1910b: 28; Wheeler, G.C. & Wheeler, J. 1985: 256 [Aenictii].

Aenictini as tribe of Aenictinae: Bolton, 1994: 12; Bolton, 2003: 36, 146.

Aenictini as subfamily of Formicidae: Bolton, 1990c: 1358 [Aenictinae]; Baroni Urbani, *et al.* 1992: 315 [Aenictinae]; Bolton, 1994: 12 [Aenictinae]; Bolton, 1995b: 8 [Aenictinae]; Wu, J. & Wang, 1995: 49 [Aenictinae]; Bolton, 2003: 36, 146 [Aenictinae]; Brady & Ward, 2005: 593 [Aenictinae]; Brady, *et al.* 2006: 18173 [Aenictinae]; Moreau, *et al.* 2006: 102 [Aenictinae]; Ward, 2007a: 555 [Aenictinae].

Aenictini as junior synonym of Dorylinae: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

**AENICTOGITONINI** [junior synonym of Dorylinae]

**Aenictogitonini** Ashmead, 1905b: 381. Type-genus: *Aenictogiton* Emery, 1901d: 49.

#### **Taxonomic history**

Aenictogitonini as tribe of Dorylinae: Ashmead, 1905b: 381 [Aenictogitonini]; Ashmead, 1906: 25 [Aenictogitonini]; Borgmeier, 1955: 57 [Aenictogitonini].

Aenictogitonini as tribe of Ponerinae: Brown, 1975: 43 [Aenictogitini]; Dlussky & Fedoseeva, 1988: 79 [Aenictogitini]; Hölldobler & Wilson, 1990: 11 [Aenictogitini].

Aenictogitonini as subfamily of Formicidae: Baroni Urbani, *et al.* 1992: 315 [Aenictogitoninae]; Bolton, 1994: 14 [Aenictogitoninae]; Bolton, 1995b: 8 [Aenictogitoninae]; Bolton, 2003: 37, 150 [Aenictogitoninae]; Brady & Ward, 2005: 593; Brady, *et al.* 2006: 18173 [Aenictogitoninae]; Ward, 2007a: 555 [Aenictogitoninae].

Aenictogitonini as junior synonym of Dorylinae: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

**AGROECOMYRMECINAE** [subfamily of Formicidae]

**Agroecomymricini** Carpenter, 1930: 34. Type-genus: *\*Agroecomymex* Wheeler, W.M. 1910a: 265.

#### **Taxonomic history**

Agroecomymrecinae as subfamily of Formicidae: Bolton, 2003: 51, 181 [Agroecomymrecinae]; Brady, *et al.* 2006: 18173 [Agroecomymrecinae]; Moreau, *et al.* 2006: 102 [Agroecomymrecinae]; Ward, 2007a: 555 [Agroecomymrecinae].

**Tribes of Agroecomymrecinae:** Agroecomymrecini, Ankylomyrmini.

**Agroecomymrecinae references:** Brown & Kempf, 1968: 184 (diagnosis, revision of tribe); Bolton, 1994: 105 (synoptic classification); Bolton, 2003: 51, 181 (diagnosis, synopsis); Brady, *et al.* 2006: 18173 (phylogeny); Moreau, *et al.* 2006: 102 (phylogeny); Baroni Urbani & De Andrade, 2007: 75 (classification); Ward, 2007a: 555 (classification); Keller, 2011: 1 (morphology, phylogeny); Ward, *et al.* 2015: 65 (reclassification); Boudinot, 2015: 46 (diagnosis); Fisher & Bolton, 2016: 38 (diagnosis); Donoso, 2019: 631 (Colombia species).

**AGROECOMYRMECINI** [tribe of Agroecomymrecinae]

**Agroecomymricini** Carpenter, 1930: 34. Type-genus: *\*Agroecomymex* Wheeler, W.M. 1910a: 265.

#### **Taxonomic history**

Agroecomymrecini as tribe of Myrmicinae: Carpenter, 1930: 34 [Agroecomymricini]; Brown & Kempf, 1968: 184 [Agroecomymrecini]; Kempf, 1972a: 263 [Agroecomymricini]; Dlussky & Fedoseeva, 1988: 80; Hölldobler & Wilson, 1990: 16; Brandão, 1991: 390; Bolton, 1995b: 8; Baroni Urbani & De Andrade, 2007: 75.

Agroecomymecini as tribe of Agroecomymecinae: Bolton, 2003: 52, 181; Ward, *et al.* 2015: 77.

**Genera of Agroecomymecini:** \**Agroecomymex*, \**Eulithomyrmex*, *Tatuidris*.

#### ALLOFORMICINAE [unavailable name]

Alloformicinae Emery, 1925b: 9 [as "section" of Formicinae]. Unavailable name; not based on genus rank taxon.

[Note (i): section designated to include the tribes Melophorini, Myrmelachistini and Plagirolepidini. Contained material referable to Formicinae (Bolton, 1994: 51, Bolton, 1995b: 9, Bolton, 2003: 265).]

[Note (ii): the later description of the genus-group taxon *Alloformica* Dlussky, 1969a: 219 (tribe Formicini), does not make Alloformicinae available retrospectively.]

#### AMBLYOPONINAE [subfamily of Formicidae]

**Amblyoponinae** Forel, 1893a: 162. Type-genus: *Amblyopone* Erichson, 1842: 260.

##### Taxonomic history

Amblyoponinae as tribe of Pachycondyliinae: Ashmead, 1905b: 382 [Amblyoponini].

Amblyoponinae as tribe of Ponerinae: Emery, 1895c: 261 [Amblyoponii]; Emery, 1895j: 766 [Amblyoponii]; Forel, 1900c: 54 [Amblyoponii]; Emery, 1901a: 36 [Amblyoponii]; Forel, 1901b: 5 [Amblyoponii]; Ruzsky, 1905b: 174 [Amblyoponii]; Ashmead, 1905b: 382 [Amblyoponini]; Emery, 1909c: 356 [Amblyoponii]; Wheeler, W.M. 1910g: 134 [Amblyoponii]; Emery, 1911d: 21 [Amblyoponini]; Emery, 1916b: 25; Forel, 1917: 235; Bondroit, 1918: 80; Wheeler, W.M. 1922a: 640 [Amblyoponini]; Wheeler, W.M. & Chapman, 1925: 55; Chapman & Capco, 1951: 22; Brown, 1953c: 11; Brown, 1960a: 146; Kusnezov, 1964: 51; Kempf, 1972a: 262 [Amblyoponini]; Smith, D.R. 1979: 1334; Wheeler, G.C. & Wheeler, J. 1985: 256; Dlussky & Fedoseeva, 1988: 78; Hölldobler & Wilson, 1990: 9; Brandão, 1991: 389; Jaffe, 1993: 7; Bolton, 1994: 164; Bolton, 1995b: 9 [Amblyoponini].

Amblyoponinae as subfamily of Formicidae: Forel, 1893a: 162 [Amblyoponinae]; Forel, 1895b: 110 [Amblyoponeridae]; Sharp, 1899: 180 [Amblyoponides]; Clark, 1951: 15 (in key) [Amblyoponinae]; Bolton, 2003: 41, 153 [Amblyoponinae]; Ouellette, *et al.* 2006: 365; Brady, *et al.* 2006: 18173; Moreau, *et al.* 2006: 102; Ward, 2007a: 555; Boudinot, 2015: 17; Ward & Fisher, 2016: 689; Fernández, Delsinne & Arias-Penna, 2019: 501.

Amblyoponinae as senior synonym of Ericapeltini: Brown, 1960a: 156 [by implication as type-genus included in Amblyoponini]; Bolton, 1994: 164; Bolton, 1995b: 9; Bolton, 2003: 42, 153.

Amblyoponinae as senior synonym of Examblyoponini: Brown, 1951: 102; Bolton, 1995b: 9; Bolton, 2003: 42, 153.

Amblyoponinae as senior synonym of Onychomyrmecini: Brown, 1960a: 178 [by implication as type-genus included in Amblyoponini]; Bolton, 1994: 164; Bolton, 1995b: 9; Bolton, 2003: 42, 153.

Amblyoponinae as senior synonym of Reneini: Brown, 1953c: 11; Bolton, 1995b: 9; Bolton, 2003: 42, 153.

[**AMBLYOPONERIDAE**: incorrect subsequent spelling by Forel, 1895b: 110.]

**Genera of Amblyoponinae:** *Adetomyrma*, *Amblyopone*, \**Casaleia*, *Fulakora*, *Myopopone*, *Mystrium*, *Onychomyrmex*, *Prionopelta*, *Stigmatomma*, *Xymmer*.

**Amblyoponinae references:** Emery, 1895j: 766 (diagnosis); Wheeler, W.M. 1910g: 134 (diagnosis); Emery, 1911d: 21 (diagnosis, genera, key); Emery, 1911d: 96 (subtribe Onychomyrmecini diagnosis); Forel, 1917: 235 (synoptic classification); Wheeler, W.M. 1922a: 640, 758, 1006 (genera key, Afrotropical, Malagasy catalogues); Brown, 1960a: 146 (diagnosis, all genera revision, key); Wheeler, G.C. & Wheeler, J. 1976b: 48 (larvae, review and synthesis); Wheeler, G.C. & Wheeler, J. 1985: 256 (synoptic classification); Terayama, 1989b: 345 (Taiwan fauna); Hölldobler & Wilson, 1990: 9 (synoptic classification); Brandão, 1991: 389 (Neotropical

fauna, synoptic classification); Bolton, 1994: 164 (synoptic classification); Ward, 1994: 167 (tribe diagnosis and discussion); Bolton, 1995a: 1042 (census); Bolton, 1995b: 9 (catalogue); Hashimoto, 1996: 353 (abdominal structure); Schoeters, *et al.* 1999: 3 (venom gland structure); Xu, 2000a: 300 (Malesian genera key); Bolton, 2003: 41, 153 (diagnosis, synopsis); Saux, *et al.* 2004: 466 (phylogeny, diagnosis); Ouellette, *et al.* 2006: 359 (phylogeny); Brady, *et al.* 2006: 18173 (phylogeny); Moreau, *et al.* 2006: 102 (phylogeny); Ward, 2007a: 555 (classification); Fernández & Arias-Penna, 2008: 30 (Neotropical genera key); Terayama, 2009: 93 (Taiwan genera key); Keller, 2011: 1 (morphology, phylogeny); Yoshimura & Fisher, 2012a: 11 (Malagasy genera males key); General & Alpert, 2012: 70 (Philippines genera key); Sarnat & Economo, 2012: 22 (Fiji Is species key); Eguchi, *et al.* 2014: 4 (Vietnam genera key); Boudinot, 2015: 17 (diagnosis); Baccaro, *et al.* 2015: 66, 120 (Brazil genera key, text); Esteves & Fisher, in Delabie, Feitosa, *et al.* 2015: 13 (amblyoponines of neotropics); Ward & Fisher, 2016: 689 (phylogeny); Fisher & Bolton, 2016: 39 (diagnosis); Fernández, Delsinne & Arias-Penna, 2019: 501 (Colombia).

ANERGATIDINI [junior synonym of Attini]

**Anergatidini** Emery, 1922e: 116. Type-genus: *Anergatides* Wasmann, 1915b: 281 (junior synonym of *Pheidole* Westwood, 1839: 219).

**Taxonomic history**

Anergatidini as subtribe of Pheidolini: Emery, 1922e: 116.

Anergatidini as junior synonym of Pheidolini: Bolton, 1994: 106; Bolton, 1995b: 14; Bolton, 2003: 63, 228.

Anergatidini as junior synonym of Attini: Ward, *et al.* 2015: 77.

ANERGATINI [junior synonym of Crematogastrini]

**Anergatini** Emery, 1914a: 41. Type-genus: *Anergates* Forel, 1874: 67.

**Taxonomic history**

Anergatini as subtribe of Solenopsidini: Emery, 1914a: 41; Forel, 1917: 243; Emery, 1922e: 204.

Anergatini as junior synonym of Tetramoriini: Bolton, 1994: 106; Bolton, 1995b: 9; Bolton, 2003: 62, 224.

Anergatini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

**ANEURETINAE** [subfamily of Formicidae]

**Aneuretini** Emery, 1913a: 6. Type-genus: *Aneuretus* Emery, 1893a: cclxxv.

**Taxonomic history**

Aneuretinae as junior synonym of Dolichoderinae: Baroni Urbani, 1989: 147.

Aneuretinae as subfamily of Formicidae: Clark, 1951: 16 (footnote); Wilson, *et al.* 1956: 93; Wheeler, G.C. & Wheeler, J. 1972a: 40; Snelling, R.R. 1981: 400; Dlussky & Fedoseeva, 1988: 78; Bolton, 1990c: 1361; Hölldobler & Wilson, 1990: 16; Shattuck, 1992b: 201; Baroni Urbani, *et al.* 1992: 315; Shattuck, 1994: 1; Bolton, 1994: 15; Bolton, 1995b: 9; Bolton, 2003: 18, 79 [Aneuretinae]; Brady, *et al.* 2006: 18173; Moreau, *et al.* 2006: 102 [Aneuretinae]; Ward, 2007a: 556 [Aneuretinae]; Boudinot, 2015: 49; Perkovsky, 2016: 113.

**Tribes of Aneuretinae:** Aneuretini, \*Pityomyrmecini.

**Genera incertae sedis in Aneuretinae:** \**Burmomyrma*, \**Cananeuretus*, \**Napakimyрма*.

**Aneuretinae references:** Forel, 1895e: 461 (diagnosis); Bingham, 1903: 290 (diagnosis); Emery, 1913a: 6 (diagnosis); Wilson, *et al.* 1956: 93 (diagnosis, review of subfamily and genus); Eisner, 1957: 453 (proventriculus morphology); Wheeler, G.C. & Wheeler, J. 1972a: 40 (diagnosis); Wheeler, G.C. & Wheeler, J. 1976b: 60 (larvae, review and synthesis); Wheeler, G.C. & Wheeler, J. 1985: 258 (synoptic classification); Bolton, 1990c: 1361 (morphology, status); Shattuck, 1992b: 201 (higher classification, phylogeny); Baroni Urbani, *et al.* 1992: 315 (phylogeny); Bolton, 1994: 15 (diagnosis, synoptic classification); Bolton, 1995a: 1047 (census); Dlussky & Rasnitsyn, 2002:

414 (diagnosis, wingless impression fossils); Bolton, 2003: 18, 79 (diagnosis, synopsis); Brady, *et al.* 2006: 18173 (phylogeny); Moreau, *et al.* 2006: 102 (phylogeny); Keller, 2011: 1 (morphology, phylogeny); Dlussky & Perfilieva, 2014: 433 (British Eocene species key); Boudinot, 2015: 49 (male diagnosis); Barden, 2017: 3 (Mesozoic taxa).

**ANEURETINI** [tribe of Aneuretinae]

**Aneuretini** Emery, 1913a: 6. Type-genus: *Aneuretus* Emery, 1893a: cclxxv.

**Taxonomic history**

Aneuretini as tribe of Dolichoderinae: Emery, 1913a: 6 [Aneuretini]; Wheeler, W.M. 1915h: 71; Forel, 1917: 247; Wheeler, W.M. 1922a: 687; Carpenter, 1930: 37; Chapman & Capco, 1951: 181; Brown, 1954e: 29 (in text).

Aneuretini as tribe of Aneuretinae: Wilson, *et al.* 1956: 93 (footnote); Hölldobler & Wilson, 1990: 16; Bolton, 1994: 15; Bolton, 1995b: 9; Bolton, 2003: 18, 79.

**Genera of Aneuretini:** \**Aneuretillus*, *Aneuretus*, \**Britaneuretus*, \**Mianeuretus*, \**Paraneuretus*, \**Protaneuretus*.

**ANKYLOMYRMINI** [tribe of Agroecomymecinae]

**Ankylomyrmini** Bolton, 2003: 66, 241. Type-genus: *Ankylomyrma* Bolton, 1973c: 235.

**Taxonomic history**

Ankylomyrmini as tribe of Myrmicinae: Bolton, 2003: 66, 241.

Ankylomyrmini as tribe of Agroecomymecinae: Ward, *et al.* 2015: 77; Fisher & Bolton, 2016: 37.

**Genus of Ankylomyrmini:** *Ankylomyrma*.

**ANOMALOMYRMINI** [tribe of Leptanillinae]

**Anomalomyrmini** Taylor, in Bolton, 1990b: 278. Type-genus: *Anomalomyrma* Taylor, in Bolton, 1990b: 278.

**Taxonomic history**

Anomalomyrmini as tribe of Leptanillinae: Bolton, 1990b: 273; Hölldobler & Wilson, 1990: 12; Kugler, C. 1992: 107; Bolton, 1994: 70; Bolton, 1995b: 9; Bolton, 2003: 39, 151.

**Genera of Anomalomyrmini:** *Anomalomyrma*, *Protanilla*.

**ANONYCHOMYRMINI** [junior synonym of Leptomyrmecini]

**Anonychomyrmini** Donisthorpe, 1947c: 588. Type-genus: *Anonychomyrma* Donisthorpe, 1947c: 588.

**Taxonomic history**

Anonychomyrmini as tribe of Dolichoderinae: Donisthorpe, 1947c: 588; Chapman & Capco, 1951: 181.

Anonychomyrmini as junior synonym of Dolichoderinae: Shattuck, 1992c: 5; Bolton, 1994: 26; Bolton, 1995b: 9; Bolton, 2003: 19, 81.

Anonychomyrmini as junior synonym of Leptomyrmecini: Ward, *et al.* 2010: 361 [by implication as type-genus included in Leptomyrmecini].

**APHAENOGASTRINI** [junior synonym of Stenammini]

**Aphaenogastrini** Enzmann, J. 1947b: 147. Type-genus: *Aphaenogaster* Mayr, 1853b: 107.

**Taxonomic history**

Aphaenogastrini as tribe of Myrmicinae: Enzmann, J. 1947b: 147.

Aphaenogastrini as junior synonym of Pheidolini: Brown, 1949a: 48; Bolton, 1995b: 14; Bolton, 2003: 63, 228.

Aphaenogastrini as junior synonym of Stenammini: Ward, *et al.* 2015: 76.

**APOMYRMINAE** [subfamily of Formicidae]

**Apomyrmini** Dlussky & Fedoseeva, 1988: 78. Type-genus: *Apomyrma* Brown, *et al.* 1971: 259.

**Taxonomic history**

Apomyrmini as tribe of Ponerinae: Dlussky & Fedoseeva, 1988: 78 [Apomyrmini].

Apomyrmini as tribe of Leptanillinae: Bolton, 1990b: 280 [Apomyrmini]; Kugler, C. 1992: 106 [Apomyrmini].

Apomyrmini as tribe of Apomyrminae: Bolton, 1994: 16; Bolton, 2003: 39, 150 [Apomyrmini].

Apomyrmini as junior synonym of Amblyoponinae: Saux, *et al.* 2004: 465.

Apomyrmini as subfamily of Formicidae: Baroni Urbani, *et al.* 1992: 316 [Apomyrminae]; Bolton, 1994: 16 [Apomyrminae]; Bolton, 1995b: 9 [Apomyrminae]; Bolton, 2003: 39, 150 [Apomyrminae]; Fisher & Bolton, 2016: 41 [Apomyrminae].

[**AROMYRMINI**: incorrect initial spelling by Dlussky & Fedoseeva, 1988: 78.]

**Genus of Apomyrmini**: *Apomyrma*.

**Apomyrminae references**: Fisher & Bolton, 2016: 41 (diagnosis)

**ARCHAEOMYRMECINI** [junior synonym of Crematogastrini]

**Archaeomyrmecini** Mann, 1921: 449. Type-genus: *Archaeomyrmex* Mann, 1921: 448 (junior synonym of *Myrmecina* Curtis, 1829: 265).

**Taxonomic history**

Archaeomyrmecini as tribe of Myrmicinae: Mann, 1921: 449; Wheeler, W.M. 1922a: 663 [Archaeomyrmecini]; Brandão, 1991: 391.

Archaeomyrmecini as junior synonym of Myrmecinini: Brown, 1971a: 2; Bolton, 1995b: 13; Bolton, 2003: 71, 255.

Archaeomyrmecini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77 [by implication as Myrmecinini synonymised under Crematogastrini].

[**ARCHEOMYRMECINI**: incorrect subsequent spelling by Brandão, 1991: 391.]

**\*ARCHIPONERINI** [junior synonym of Ponerini]

**\*Archiponerini** Dlussky & Fedoseeva, 1988: 78. Type-genus: *\*Archiponera* Carpenter, 1930: 27.

**Taxonomic history**

\*Archiponerini as tribe of Ponerinae: Dlussky & Fedoseeva, 1988: 78.

\*Archiponerini as junior synonym of Ponerini: Bolton, 1994: 164; Bolton, 1995b: 9; Bolton, 2003: 43, 159; Schmidt, C.A. & Shattuck, 2014: 52.

**ARESTOGNATHITI**: incorrect subsequent spelling of ORECTOGNATHITI.

**\*ARMANIIDAE** [junior synonym of \*Sphecomyrmini]

**\*Armaniidae** Dlussky, 1983: 66. Type-genus: *\*Armania* Dlussky, 1983: 67.

**Taxonomic history**

\*Armaniidae as subfamily of Formicidae: Bolton, 1994: 187 [\*Armaniinae]; Bolton, 1995b: 9 [\*Armaniinae]; Dlussky, 1996: 83 [\*Armaniinae]; Bolton, 2003: 73, 259 [\*Armaniinae]; Ward, 2007a: 555 [\*Armaniinae].

\*Armaniidae as junior synonym of Formicidae: Wilson, 1987: 49; Carpenter, 1992: 491.

\*Armaniidae as family: Dlussky, 1983: 66 [\*Armaniidae]; Dlussky & Fedoseeva, 1988: 77 [\*Armaniidae]; Grimaldi, *et al.* 1997: 7 [\*Armaniidae]; Dlussky, 1999a: 63 [\*Armaniidae]; Rasnitsyn, 2002: 249 [\*Armaniidae]; Engel & Grimaldi, 2005: 4 [\*Armaniidae]; LaPolla, *et al.* 2013: 618 (in text) [\*Armaniidae].

\*Armaniidae as junior synonym of \*Sphecomyrmini: Borysenko, 2017: 17 (in text).

[Note: the author of this catalogue has reservations concerning the Borysenko conclusion, and would prefer to regard this taxon as a stem-group subfamily of Formicidae, or even a separate family. Its synonymy with \*Sphecomyrminae is by no means convincing.]

**\*Armaniinae references:** Dlussky, 1983: 67 (genera and species key); Dlussky & Fedoseeva, 1988: 77 (synoptic classification); Bolton, 1995b: 9 (catalogue); Bolton, 2003: 73, 259 (diagnosis, synopsis); LaPolla, *et al.* 2013: 618 (discussion); Borysenko, 2017: 17 (synonymy).

**ATTINA** [unavailable name]

**Attina** Sosa-Calvo, Ješovnik, *et al.* 2017: 2, Sosa-Calvo, Schultz, *et al.* 2018: 549, Sosa-Calvo, Fernández & Schultz, 2019: 140, Solomon, Rabeling, *et al.* 2019: 940 [as subtribe of Myrmicinae tribe Attini]. Unavailable name; in all cases proposed without morphological diagnosis.

[Note: in the publications cited Attina is referred to as “fungus growing ants”, or “fungus farming ants”, or are stated to “rely exclusively on basidiomycete fungi”. It is undecided if such statements would satisfy the provisions of ICZN Article 13.]

**ATTINI** [tribe of Myrmicinae]

**Attidae** Smith, F. 1858b: 161. Type-genus: *Atta* Fabricius, 1804: 421.

#### **Taxonomic history**

[Attidae Shuckard, in Swainson & Shuckard, 1840: 174, is rejected as a family-group name as it appears in the text to be a plural noun or adjective referring to the members of a genus.]

Attini as subfamily of Formicidae: Smith, F. 1858b: 161 [Attidae]; Smith, F. 1860c: 73 [Attidae]; Smith, F. 1861b: 48 [Attidae]; Smith, F. 1862b: 34 [Attidae].

Attini as family: Smith, F. 1861b: 48 [Attidae]; Smith, F. 1863: 21 [Attidae].

Attini as group of Myrmicidae: Emery, 1877a: 72 [Attidae].

Attini as junior synonym of Myrmicidae: Emery & Forel, 1879a: 457 [Attidae].

Attini as subfamily of Myrmicidae: Emery, 1894g: 385 [Attinae].

Attini as subfamily of Cryptoceridae: Ashmead, 1905b: 383 [Attinae].

Attini as tribe of Myrmicinae: Forel, 1891b: 143 [Attini]; Forel, 1892d: 344 [Attini]; Forel, 1893a: 163 [Attii]; Forel, 1893e: 586 [Attini]; Forel, 1895b: 137 [Attii]; Emery, 1895c: 329 [Attii]; Emery, 1895j: 770 [Attii]; Forel, 1899c: 30 [Attii]; Sharp, 1899: 165 [Attini]; Forel, 1908e: 69 [Attii]; Wheeler, W.M. 1910g: 141 [Attii]; Emery, 1913b: 251 [Attini]; Emery, 1914a: 39; Forel, 1917: 247; Wheeler, W.M. 1922a: 668 [Attini]; Emery, 1924d: 330 [Attini]; Chapman & Capco, 1951: 82; Kempf, 1972a: 265; Smith, D.R. 1979: 1409; Dlussky & Fedoseeva, 1988: 79; Hölldobler & Wilson, 1990: 16; Brandão, 1991: 392; Bolton, 1995b: 9; Bolton, 2003: 56, 196; Ward, *et al.* 2015: 77.

Attini as senior synonym of Anergatidini: Ward, *et al.* 2015: 77.

Attini as senior synonym of Basicerotini: Ward, *et al.* 2015: 77.

Attini as senior synonym of Blepharidattini: Ward, *et al.* 2015: 77.

Attini as senior synonym of Cephalotini: Ward, *et al.* 2015: 77.

Attini as senior synonym of Cryptocerini: Ward, *et al.* 2015: 77.

Attini as senior synonym of Dacetini: Ward, *et al.* 2015: 77.

Attini as senior synonym of Dacetiti: Ward, *et al.* 2015: 77.

Attini as senior synonym of Epopostrumiti: Ward, *et al.* 2015: 77.

Attini as senior synonym of Lenomyrmecini: Ward, *et al.* 2015: 77.

Attini as senior synonym of Pheidolini: Ward, *et al.* 2015: 77.

Attini as senior synonym of Ochetomyrmecini: Ward, *et al.* 2015: 77.

Attini as senior synonym of Orectognathiti: Ward, *et al.* 2015: 77.

Attini as senior synonym of Phalacromyrmecini: Ward, *et al.* 2015: 77.

Attini as senior synonym of Strumigeniti: Ward, *et al.* 2015: 77.

[Attini as junior synonym of Pheidolini: Fernández & Serna, 2019: 829.]

[Note: the name Attini (1858) is easily senior to Pheidolini (1877), but Fernández & Serna, 2019: 829, suggest Pheidolini as the name for the tribe, apparently so that Attini can be reserved for the Neotropical fungus growers. The

compiler of this catalogue maintains temporal priority, pending an appeal by the authors to the International Commission on Zoological Nomenclature; the proposed change is not supported here.]

**Genera of Attini** (genus groups abstracted from Ward, *et al.* 2015: 68):

allomerine genus group: *Allomerus*, *Blepharidatta*, *Diaphoromyrma*, *Lachnomyrma*, *Wasmannia*.

attine genus group: *Acromyrma*, *Apterostigma*, *Atta*, \**Attaichnus* (ichnotaxon), *Cyatta*, *Cyphomyrma*, *Kalathomyrma*, *Mycetagroicus*, *Mycetarotes*, *Mycetomoellerius*, *Mycetophylax*, *Mycetosoritis*, *Mycocepurus*, *Myrmicocrypta*, *Paramycetophylax*, *Paratrachymyrma*, *Pseudoatta*, *Sericomyrma*, *Trachymyrma*, *Xerolitor*.

basicerotine genus group: *Basiceros*, *Eurhopalothrix*, *Octostruma*, *Protalaridris*, *Rhopalothrix*, *Talaridris*.

cephalotine genus group: *Cephalotes*, *Procryptocerus*.

dacetine genus group: *Acanthognathus*, *Daceton*, *Lenomyrma*.

orectognathine genus group: *Colobostruma*, *Epopostruma*, *Mesostruma*, *Microdaceton*, *Orectognathus*.

phalacromyrmecine genus group: *Ishakidris*, *Phalacromyrma*, *Pilotrochus*.

pheidoline genus group: *Chimaeridris*, *Pheidole*.

strumigenyine genus group: *Strumigenys*.

tranopeltine genus group: *Ochetomyrma*, *Tranopelta*.

**Attine** genus group (= Attini in pre-2015 sense) **references**:

[Note: the following references include only the attines (attine genus group), the fungus growers of the New World).]

Emery, 1895j: 770 (diagnosis); Wheeler, W.M. 1907c: 669 (North America fauna); Wheeler, W.M. 1910g: 141 (diagnosis); Emery, 1912b: 101 (phylogeny); Emery, 1913b: 251 (synoptic classification); Emery, 1914a: 39, 42 (diagnosis (in key), synoptic classification); Gallardo, 1916d: 318 (Argentina genera, key); Forel, 1917: 247 (synoptic classification); Wheeler, W.M. 1922a: 668 (genera key); Emery, 1924d: 330 (diagnosis, genera key, catalogue); Kusnezov, 1964: 147 (phylogeny); Wheeler, G.C. & Wheeler, J. 1976b: 60 (larvae, review and synthesis); Kugler, C. 1978a: 477 (sting structure); Weber, 1982: 255 (synopsis); Dlussky & Fedoseeva, 1988: 79 (synoptic classification); Hölldobler & Wilson, 1990: 16 (synoptic classification); Brandão, 1991: 392 (Neotropical fauna, synoptic classification); Bolton, 1994: 105 (synoptic classification); Bolton, 1995a: 1040 (census); Bolton, 1995b: 9 (catalogue); Schultz & Meier, 1995: 337 (phylogeny, larvae); Lattke, 1999: 2 (phylogeny, partial); Brandão & Mayhé-Nunes, 2001: 661 (monophyly); Bolton, 2003: 56, 196 (diagnosis, synopsis); Fernández, 2003d: 310 (Neotropical genera); Klingenberg & Brandão, 2009: 5 (genera related to *Mycetophylax* key); Mehdiabadi & Schultz, 2009: 37 (natural history, phylogeny); Ward, *et al.* 2015: 69 (**reclassification**); Sosa-Calvo, Schultz, *et al.* 2018: 554 (phylogeny); Fernández & Serna, 2019: 829 (Colombia fauna, under the name Pheidolini).

AXINIDRINI [junior synonym of Tapinomini]

**Axinidrini** Weber, 1941a: 193. Type-genus: *Axinidris* Weber, 1941a: 192.

#### **Taxonomic history**

Axinidrini as tribe of Dolichoderinae: Weber, 1941a: 193; Dlussky & Fedoseeva, 1988: 78.

Axinidrini as junior synonym of Dolichoderinae: Shattuck, 1992c: 5; Bolton, 1994: 26; Bolton, 1995b: 9; Bolton, 2003: 19, 81.

Axinidrini as junior synonym of Tapinomini: Ward, *et al.* 2010: 361 [by implication as type-genus included in Tapinomini].

BASICEROTINI [junior synonym of Attini]

**Basicerotini** Brown, 1949f: 86. Type-genus: *Basiceros* Schulz, W.A. 1906: 156.

#### **Taxonomic history**

Basicerotini as tribe of Myrmicinae: Brown, 1949f: 86; Brown & Kempf, 1960: 162; Taylor, 1968b: 333; Kempf, 1972a: 265; Wheeler, G.C. & Wheeler, J. 1976b: 60; Kugler, C. 1978a:

438; Smith, D.R. 1979: 1409; Dlussky & Fedoseeva, 1988: 80; Hölldobler & Wilson, 1990: 16; Taylor, 1990b: 397; Brandão, 1991: 391; Bolton, 1994: 104; Bolton, 1995b: 9; Bolton, 1998: 70; Fernández, 2003d: 313; Bolton, 2003: 53, 183; Ward, 2007a: 556; Longino & Boudinot, 2013: 302 (in text).

Basicerotini as junior synonym of Dacetini: Baroni Urbani & De Andrade, 1994: 10; Baroni Urbani & De Andrade, 2007: 81.

Basicerotini as junior synonym of Attini: Ward, *et al.* 2015: 77.

**Basicerotini references:** Brown, 1949f: 86 (diagnosis, genera); Brown & Kempf, 1960: 161, 243 (diagnosis, genera revision, key); Taylor, 1968b: 334 (Indo-Australian species key); Wheeler, G.C. & Wheeler, J. 1976b: 60 (larvae, review and synthesis); Kugler, C. 1978a: 438 (sting structure); Dlussky & Fedoseeva, 1988: 80 (synoptic classification); Taylor, 1990b: 401 (Old World species key); Hölldobler & Wilson, 1990: 16 (synoptic classification); Brandão, 1991: 391 (Neotropical fauna, synoptic classification); Baroni Urbani & De Andrade, 1994: 9 (review of tribe, classification and phylogeny); Bolton, 1994: 105 (synoptic classification); Bolton, 1995a: 1040 (census); Bolton, 1995b: 9 (catalogue); Bolton, 1998: 70 (comparative morphology, monophyly, relationships); Bolton, 2003: 53, 183 (diagnosis, synopsis); Baroni Urbani & De Andrade, 2007: 81 (classification).

BLEPHARIDATTINI [junior synonym of Attini]

**Blepharidattini** Wheeler, G.C. & Wheeler, J. 1991a: 133. Type-genus: *Blepharidatta* Wheeler, W.M. 1915e: 484.

#### **Taxonomic history**

Blepharidattini as tribe of Myrmicinae: Wheeler, G.C. & Wheeler, J. 1991a: 133; Bolton, 1994: 105; Bolton, 1995b: 9; Bolton, 2003: 57, 201.

Blepharidattini as junior synonym of Attini: Ward, *et al.* 2015: 77.

**Blepharidattini references:** Bolton, 2003: 57, 201 (diagnosis, synopsis); Fernández, 2003d: 314 (Neotropical genera).

**BOTHRIOMYRMECINI** [tribe of Dolichoderinae]

**Bothriomyrmecina** Dubovikoff, 2005a: 92. Type-genus: *Bothriomyrmex* Emery, 1869c: 117.

#### **Taxonomic history**

Bothriomyrmecina as subtribe of Iridomyrmecini: Dubovikoff, 2005a: 92.

Bothriomyrmecini as tribe of Dolichoderinae: Ward, *et al.* 2010: 361.

**Genera of Bothriomyrmecini:** *Arnoldius*, *Bothriomyrmex*, *Chronoxenus*, *Loweriella*, *Ravavy*.

BRACHYMYRMECINI [junior synonym of Myrmelachistini]

**Brachymyrmecini** Emery, 1925b: 40. Type-genus: *Brachymyrmex* Mayr, 1868a: 163.

#### **Taxonomic history**

Brachymyrmecini as subtribe of Dimorphomyrmecini: Emery, 1925b: 40 [Brachymyrmecini].

Brachymyrmecini as tribe of Formicinae: Wheeler, W.M. 1929a: 12 (in text); Kempf, 1972a: 266 [Brachymyrmecini]; Wheeler, G.C. & Wheeler, J. 1976b: 64; Smith, D.R. 1979: 1424; Wheeler, G.C. & Wheeler, J. 1985: 258 [Brachymyrmecini]; Brandão, 1991: 393; Jaffe 1993: 12; Bolton, 1994: 50; Bolton, 1995b: 9.

Brachymyrmecini as junior synonym of Plagiolepidini: Bolton, 2003: 22, 100.

Brachymyrmecini as junior synonym of Myrmelachistini: Blaimer, Brady, *et al.* 2015: 6 [by implication]; Ward, Blaimer & Fisher, 2016: 348.

BREGMATOMYRMINI [junior synonym of Plagiolepidini]

**Bregmatomyrminii** Wheeler, W.M. 1929b: 5. Type-genus: *Bregmatomyrma* Wheeler, W.M. 1929b: 3.

### **Taxonomic history**

Bregmatomyrmini as tribe of Formicinae: Wheeler, W.M. 1929b: 5 [Bregmatomyrminii]; Chapman & Capco, 1951: 197 [Brematomyrminii]; Bolton, 1994: 50 [Bregmatomyrmini]; Bolton, 1995b: 9.

Bregmatomyrmini as junior synonym of Plagiolepidini: Bolton, 2003: 22, 100; Ward, Blaimer & Fisher, 2016: 348.

[**BREGMATOMYRMINII**: incorrect subsequent spelling by Chapman & Capco, 1951: 197.]

**\*BROWNIMECIINAE** [subfamily of Formicidae]

**\*Brownimeciinae** Bolton, 2003: 75, 262. Type-genus: *Brownimecia* Grimaldi, *et al.* 1997: 20.

### **Taxonomic history**

**\*Brownimeciinae** as subfamily of Formicidae: Bolton, 2003: 75, 262; Ward, 2007a: 555; LaPolla, *et al.* 2013: 621 (in text); Barden, 2017: 2.

**Genus of \*Brownimeciinae:** *Brownimecia*

**\*Brownimeciinae references:** Bolton, 2003: 75, 262 (diagnosis, comments, synopsis); Barden, 2017: 2 (checklist).

CALYPTOMYRMECINI [junior synonym of Crematogastrini]

**Calyptomyrmecini** Dlussky & Fedoseeva, 1988: 80. Type-genus: *Calyptomyrmex* Emery, 1887b: 471.

### **Taxonomic history**

Calyptomyrmecini as tribe of Myrmicinae: Dlussky & Fedoseeva, 1988: 80.

Calyptomyrmecini as junior synonym of Stenammini: Bolton, 1994: 106; Bolton, 1995b: 16; Bolton, 2003: 58, 202.

Calyptomyrmecini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

**CAMPONOTINI** [tribe of Formicinae]

**Camponotidae** Forel, 1878: 364. Type-genus: *Camponotus* Mayr, 1861: 35.

### **Taxonomic history**

Camponotini as subfamily of Formicidae: Forel, 1878: 364 [Camponotidae]; Emery & Forel, 1879: 447 [Camponotidae]; Forel, 1879a: 56 [Camponotidae]; Emery, 1887a: 210 [Camponotidae]; Nasonov, 1889: 9 [Camponotidae]; Forel, 1890a: lxi [Camponotides]; Forel, 1891b: 13 [Camponotidae]; Forel, 1892j: 219 [Camponotidae]; Forel, 1893a: 165 [Camponotinae]; Forel, 1893g: 333 [Camponotidae]; Dalla Torre, 1893: 171 [Camponotinae]; Emery, 1893i: 635 [Camponotini]; Forel, 1894d: 3 [Camponotinae]; Emery, 1895j: 771 [subfamily spelled Camponotini]; Emery, 1896e: 187 [Camponotinae]; Mayr, 1897: 432 [Camponotini]; Forel, 1899c: 123 [Camponotinae]; Sharp, 1899: 144 [Camponotides]; Forel, 1901b: 24 [Camponotinae]; Bingham, 1903: 308 [Camponotinae]; Forel, 1903c: 250 [Camponotinae]; Ashmead, 1905b: 384 [Camponotinae]; Ruzsky, 1905b: 109 [Camponotinae]; Forel, 1908e: 62 [Camponotidae]; Santschi, 1910e: 650 [Camponotines]; Wheeler, W.M. 1910g: 143 [Camponotinae]; Forel, 1912i: 87 [Camponotinae]; Santschi, 1913h: 35 [Camponotinae]; Santschi, 1914b: 121 [Camponotinae]; Forel, 1915d: 45 [Camponotinae]; Donisthorpe, 1915d: 184 [Camponotinae]; Wheeler, W.M. 1915g: 813 [Camponotides]; Emery, 1916b: 216 [Camponotinae]; Escherich, 1917: 2 [Camponotini]; Forel, 1917: 248 [Camponotinae]; Arnold, 1920a: 551 [Camponotinae]; Soudek, 1922: 61 [Camponotinae].

Camponotini as tribe of Formicidae: André, 1882a: 126 [Camponotidae].

Camponotini as family: Emery, 1894g: 372 [Camponotidae].

Camponotini as tribe of Camponotidae: Forel, 1886f: 141 [Camponotii]; Forel, 1891b: 13 [Camponotii].

Camponotini as tribe of Camponotinae: Forel, 1893a: 165 [Camponotii]; Forel, 1893g: 333 [Camponotii]; Forel, 1895b: 101 [Camponoti]; Emery, 1895j: 772 [Camponotii]; Forel, 1899c: 130 [Camponotii]; Ruzsky, 1902d: 4 [subfamily spelled Camponotini]; Ashmead, 1905b: 384 [Camponotini]; Ruzsky, 1905b: 110 [Camponotii]; Forel, 1908e: 62 [Camponoti]; Wheeler, W.M. 1910g: 144 [Camponotii]; Santschi, 1914b: 129 [Camponotini]; Wheeler, W.M. 1915h: 135; Forel, 1915d: 45; Emery, 1916b: 222; Forel, 1917: 250; Arnold, 1922: 610; Soudek, 1922: 61.

Camponotini as tribe of Formicinae: Bondroit, 1918: 65; Wheeler, W.M. 1922a: 700; Emery, 1925b: 53; Chapman & Capco, 1951: 220; Kempf, 1972a: 266; Smith, D.R. 1979: 1424; subsequent authors; Dlussky & Fedoseeva, 1988: 77; Hölldobler & Wilson, 1990: 18; Brandão, 1991: 392; Bolton, 1995b: 9; Bolton, 2003: 26, 111; Blaimer, Brady, *et al.* 2015: 6; Ward, Blaimer & Fisher, 2016: 344.

Camponotini as senior synonym of Polyrhachidini: Bolton, 1994: 50; Bolton, 1995b: 9; Bolton, 2003: 26, 111; Ward, Blaimer & Fisher, 2016: 345.

Camponotini as senior synonym of \*Paleosminthuridae: Snelling, R.R. (pers. comm. to B. Bolton, 2004). [Synonymy remained unpublished at his death in 2008, but is accepted provisionally here.]

**Genera of Camponotini:** *Calomyrmex*, *Camponotus*, \**Chimaeromyrma*, *Colobopsis*, *Dinomyrmex*, *Echinopla*, *Opisthopsis*, *Overbeckia*, *Polyrhachis*, \**Pseudocamponotus*.

**Camponotini references:** Forel, 1878: 364, 367 (diagnosis, genus groups); Forel, 1893a: 165 (diagnosis, synoptic classification); Emery, 1896e: 187 (Camponotinae genera); Forel, 1912i: 87 (classification); Forel, 1917: 250 (synoptic classification); Wheeler, W.M. 1922a: 700 (genera, key); Emery, 1925b: 53 (diagnosis, genera key); Wheeler, G.C. & Wheeler, J. 1970: 652 (larva diagnosis); Wheeler, G.C. & Wheeler, J. 1976b: 65 (larvae, review and synthesis); Dlussky & Fedoseeva, 1988: 77 (synoptic classification); Hölldobler & Wilson, 1990: 18 (synoptic classification); Bolton, 1994: 50 (synoptic classification); Bolton, 1995a: 1039 (census); Bolton, 2003: 26, 111 (diagnosis, synopsis); Blaimer, Brady, *et al.* 2015: 6 (phylogeny, synopsis); Ward, Blaimer & Fisher, 2016: 345 (phylogeny, synopsis); Fernández & Ortiz-Sepúlveda, 2019: 732.

CARDIOCONDYLINI [junior synonym of Crematogastrini]

**Cardiocondylini** Emery, 1914a: 36 (diagnosis in key). Type-genus: *Cardiocondyla* Emery, 1869b: 20.

#### **Taxonomic history**

Cardiocondylini as tribe of Myrmicinae: Emery, 1914a: 36 [Cardiocondylini]; Arnold, 1916: 200; Emery, 1916b: 152; Forel, 1917: 242; Emery, 1922e: 123; Wheeler, W.M. 1922a: 661; Chapman & Capco, 1951: 83; Kempf, 1972a: 263; Smith, D.R. 1979: 1375; Wheeler, G.C. & Wheeler, J. 1985: 257; Dlussky & Fedoseeva, 1988: 80; Brandão, 1991: 390; Jaffe, 1993: 10.

Cardiocondylini as junior synonym of Leptothoracini: Bolton, 1982: 311 (in text).

Cardiocondylini as junior synonym of Formicoxenini: Bolton, 1994: 105; Bolton, 1995b: 9; Bolton, 2003: 68, 243.

Cardiocondylini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

CATAULACINI [junior synonym of Crematogastrini]

**Cataulacii** Emery, 1895j: 771. Type-genus: *Cataulacus* Smith, F. 1853: 225.

#### **Taxonomic history**

Cataulacini as subfamily of Cryptoceridae: Ashmead, 1905b: 384 [Cataulacinae].

Cataulacini as tribe of Myrmicinae: Emery, 1895j: 771 [Cataulacii]; Wheeler, W.M. 1910g: 142 [Cataulacii]; Emery, 1914a: 39 [Cataulacini]; Santschi, 1914b: 108 [Cataulacii]; Arnold, 1917: 386; Forel, 1917: 246; Wheeler, W.M. 1922a: 665 [Cataulacini]; Emery, 1924d: 294;

Chapman & Capco, 1951: 84; Bolton, 1974a: 9; Dlussky & Fedoseeva, 1988: 80; Bolton, 1995b: 10; Bolton, 2003: 55, 193.

Cataulacini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

CENTROMYRMECINI [junior synonym of Ponerini]

**Centromyrmecini** Emery, 1911d: 57. Type-genus: *Centromyrmex* Mayr, 1866b: 894.

**Taxonomic history**

Centromyrmecini as subtribe of Ponerini: Emery, 1911d: 57 [Centromyrmecini]; Forel, 1917: 237 [Centromyrmecini].

Centromyrmecini as tribe of Ponerinae: Bernard, 1953b: 186.

Centromyrmecini as junior synonym of Ponerini: Brown, 1953c: 9; Bolton, 1995b: 10; Bolton, 2003: 43, 158; Schmidt, C.A. & Shattuck, 2014: 52.

CEPHALOTINI [junior synonym of Attini]

**Cephalotini** Smith, M.R. 1949c: 19. Type-genus: *Cephalotes* Latreille, 1802a: 357.

**Taxonomic history**

Cephalotini as tribe of Myrmicinae: Smith, M.R. 1949c: 19; Kempf, 1951: 11; Kempf, 1952: 1; Kempf, 1958a: 1; Kempf, 1972a: 264; Smith, D.R. 1979: 1402; Hölldobler & Wilson, 1990: 16; Brandão, 1991: 391; Bolton, 1995b: 10; Bolton, 2003: 56, 194.

Cephalotini as senior synonym of Cryptocerini: Smith, M.R. 1949c: 18; Kempf, 1951: 11; Bolton, 1995b: 10.

[Note: Cephalotini retains priority over Cryptocerini under Article 40.2 of the International Code of Zoological Nomenclature (4th Edition), 1999: 46.]

Cephalotini as junior synonym of Attini: Ward, *et al.* 2015: 77.

**Cephalotini references:** Emery, 1895j: 771 (diagnosis); Wheeler, W.M. 1910g: 141 (diagnosis); Emery, 1914a: 39, 42 (diagnosis (in key), synoptic classification); Forel, 1917: 246 (synoptic classification); Wheeler, W.M. 1922a: 665 (genera key); Emery, 1924d: 299 (diagnosis, genera key, catalogue); Kempf, 1951: 11 (revision of tribe, genera key); Kempf, 1958a: 4 (Argentina fauna); Kempf, 1973c: 461 (genera); Wheeler, G.C. & Wheeler, J. 1976b: 59 (larvae, review and synthesis); Kugler, C. 1978a: 473 (sting structure); Hölldobler & Wilson, 1990: 16 (synoptic classification); Brandão, 1991: 391 (Neotropical fauna, synoptic classification); Bolton, 1994: 105 (synoptic classification); Bolton, 1995a: 1040 (census); Bolton, 1995b: 10 (catalogue); De Andrade & Baroni Urbani, 1999: 1 (diagnosis, review of tribe, revision of genera); Bolton, 2003: 56, 194 (diagnosis, synopsis).

CERAPACHYINI [junior synonym of Dorylinae]

**Cerapachysii** Forel, 1893a: 162. Type-genus: *Cerapachys* Smith, F. 1857a: 74.

**Taxonomic history**

Cerapachyini as tribe of Ponerinae: Forel, 1893a: 162 [Cerapachysii]; Forel, 1895b: 116 [Cerapachysii]; Forel, 1900c: 52 [Cerapachii]; Forel, 1900d: 328 [Cerapachii]; Forel, 1901c: 139 [Cerapachii]; Ashmead, 1905b: 382 [Cerapachyini]; Wheeler, W.M. 1910g: 136 [Cerapachysii]; Emery, 1911d: 5 [Cerapachyini]; Santschi, 1914b: 46 [Cerapachyini]; Wheeler, W.M. 1915h: 27; Arnold, 1915: 11; Forel, 1917: 239 [Cerapachyini]; Wheeler, W.M. 1918a: 215 [Cerapachyini]; Arnold, 1926: 191; Brown, 1975: 14; Dlussky & Fedoseeva, 1988: 79; Hölldobler & Wilson, 1990: 10.

Cerapachyini as tribe of Dorylinae: Emery, 1895j: 765 [Cerapachyi]; Emery, 1901a: 36 [Dorylinae, group Cerapachinae, tribe Cerapachyi]; Emery, 1904a: 116 [Cerapachyi]; Smith, D.R. 1979: 1333 [Cerapachyini].

Cerapachyini as tribe of Cerapachyinae: Wheeler, W.M. 1902d: 185 [Cerapachyi]; Wheeler, W.M. 1922a: 638; Wheeler, W.M. & Chapman, 1925: 50; Donisthorpe, 1943f: 620; Chapman &

Capco, 1951: 17; Kempf, 1972a: 263; Wheeler, G.C. & Wheeler, J. 1985: 256; Bolton, 1990a: 67; Bolton, 1990c: 1357; Brandão, 1991: 390; Jaffe, 1993: 9; Bolton, 1994: 19; Bolton, 1995b: 10; Bolton, 2003: 33, 139; Bolton & Fisher, 2012: 7.

Cerapachyini as family: Bernard, 1951: 1046 [Cerapachyidae]; Bernard, 1953b: 215 [Cerapachyidae].

Cerapachyini as junior synonym of Ponerinae: Brown, 1975: 14; Snelling, R.R. 1981: 387; Hölldobler & Wilson, 1990: 10.

Cerapachyini as group of Dorylinae: Emery, 1901a: 36 [Cerapachinae].

Cerapachyini as subfamily of Formicidae: Wheeler, W.M. 1902d: 185 [Cerapachyinae]; Wheeler, W.M. 1920: 53 [Cerapachyinae]; Wheeler, W.M. 1922a: 51, 638 [Cerapachyinae]; Donisthorpe, 1922: xlv; Borgmeier, 1923: 50; Clark, 1924b: 76; Clark, 1934c: 49; Donisthorpe, 1943f: 620; Creighton, 1950a: 56; Clark, 1951: 15 (in key); Chapman & Capco, 1951: 17; Smith, M.R. 1951a: 781; Brown, 1954e: 26 [Cerapachyinae]; Kusnezov, 1956: 11; Kusnezov, 1964: 48; Wheeler, G.C. & Wheeler, J. 1972a: 37; Kempf, 1972a: 263 [Cerapachyinae]; Wheeler, G.C. & Wheeler, J. 1976b: 46; Smith, D.R. 1979: 1333; Wheeler, G.C. & Wheeler, J. 1985: 256; Ogata, 1987: 127; Bolton, 1990a: 66 [Cerapachyinae]; Bolton, 1990c: 1356 [Cerapachyinae]; Brandão, 1991: 390; Baroni Urbani, *et al.* 1992: 316; Jaffe, 1993: 9; Bolton, 1994: 18 [Cerapachyinae]; Bolton, 1995b: 10 [Cerapachyinae]; Wu, J. & Wang, 1995: 47; Bolton, 2003: 32, 137 [Cerapachyinae]; Brady & Ward, 2005: 593 [Cerapachyinae]; Brady, *et al.* 2006: 18173 [Cerapachyinae]; Moreau, *et al.* 2006: 102 [Cerapachyinae]; Ward, 2007a: 555 [Cerapachyinae]; Perkovsky, 2016: 115.

Cerapachyini as junior synonym of Dorylinae: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

[**CEROPACHYINI**: incorrect subsequent spelling by Ashmead, 1905b: 382.]

**Cerapachyini references:** Emery, 1895j: 765 (diagnosis); Wheeler, W.M. 1910g: 136 (diagnosis); Emery, 1911d: 5, 6 (tribes key, diagnosis, genera key); Arnold, 1915: 11 (South Africa genera key); Forel, 1917: 239 (synoptic classification); Wheeler, W.M. 1918a: 224, 239 (Australia genera key); Wheeler, W.M. 1922a: 51, 636, 639 (diagnosis, tribes key, genera key); Borgmeier, 1923: 50 (Brazil catalogue); Morley, 1939: 114 (phylogeny); Smith, M.R. 1947f: 528 (U.S.A. diagnosis, genera); Brown, 1954e: 26 (phylogeny, notes); Eisner, 1957: 476 (proventriculus morphology); Wilson, 1959b: 39 (Melanesia fauna); Gotwald, 1969: 43 (mouthparts morphology); Wheeler, G.C. & Wheeler, J. 1972a: 37 (diagnosis); Kempf, 1972a: 263 (Neotropical, synoptic classification); Brown, 1975: 11, 14 (revision of tribes and genera, diagnoses, key); Wheeler, G.C. & Wheeler, J. 1976b: 46 (larvae, review and synthesis); Wheeler, G.C. & Wheeler, J. 1985: 261 (diagnosis); Ogata, 1987: 129 (Japan genera); Bolton, 1990a: 53, 61 (abdominal morphology, diagnosis, synoptic classification, zoogeography); Bolton, 1990c: 1356 (diagnosis, morphology, phylogeny); Brandão, 1991: 390 (Neotropical fauna, synoptic classification, genera); Baroni Urbani, *et al.* 1992: 316 (phylogeny); Jaffe, 1993: 7 (Neotropical genera, synoptic classification); Lattke, in Jaffe, 1993: 165 (Neotropical genera); Bolton, 1994: 18 (diagnosis, synoptic classification, key to genera); Bolton, 1995a: 1038 (census); Bolton, 1995b: 10 (catalogue); Hölldobler, *et al.* 1996: 158 (metatibial gland); Shattuck, 1999: 25, 60 (Australia, genera key, synopsis); Andersen, 2000: 33 (northern Australia, genera); Perfilieva, 2002: 1239 (venation); Palacio & Fernández, in Fernández, 2003d: 238 (Neotropical genera keys); Brady, 2003: 6575 (phylogeny); Bolton, 2003: 32, 137 (diagnosis, synopsis); Brady & Ward, 2005: 593 (phylogeny); Moreau, *et al.* 2006: 102 (phylogeny); Brady, *et al.* 2006: 18173 (phylogeny); Ward, 2007a: 555 (classification); Keller, 2011: 1 (morphology, phylogeny); General & Alpert, 2012: 70 (Philippines genera key); Bolton & Fisher, 2012: 7 (diagnosis, morphology, Afrotropical genera key); Eguchi, *et al.* 2014: 3 (Vietnam genera key).

CHELIOMYRMECINI [junior synonym of Dorylinae]

**Cheliomyrmicini** Wheeler, W.M. 1921d: 319. Type-genus: *Cheliomyrmex* Mayr, 1870b: 968.

**Taxonomic history**

Cheliomyrmecini as tribe of Dorylinae: Wheeler, W.M. 1921d: 319 [Cheliomyrmicini] Wheeler, W.M. 1922a: 635 (footnote) [Cheliomyrmicini]; Borgmeier, 1955: 57 [Cheliomyrmicini]; Kempf, 1972a: 265 [Cheliomyrmicini]; Wheeler, G.C. & Wheeler, J. 1985: 256 [Cheliomyrmecini]; Dlussky & Fedoseeva, 1988: 79.

Cheliomyrmecini as tribe of Ecitoninae: Bolton, 1990c: 1357; Hölldobler & Wilson, 1990: 11; Brandão, 1991: 392; Jaffe 1993: 12; Bolton, 1994: 39; Bolton, 1995b: 10; Bolton, 2003: 35, 143.

Cheliomyrmecini as junior synonym of Dorylinae: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

**CREMATOGASTRINI** [tribe of Myrmicinae]

**Cremastogastrii** Forel, 1893a: 164. Type-genus: *Crematogaster* Lund, 1831a: 132.

**Taxonomic history**

Crematogastrini as junior synonym of Myrmicini: Emery, 1895c: 271 (footnote).

Crematogastrini as tribe of Myrmicinae: Forel, 1893a: 164 [Cremastogastrii]; Emery, 1895j: 769 [Cremastogastrii]; Forel, 1895b: 130 [Cremastogastrii]; Forel, 1899c: 81 [Cremastogastrii]; Forel, 1901b: 15 [Cremastogastrii]; Ashmead, 1905b: 383 [Crematogasterini]; Wheeler, W.M. 1910g: 140 [Cremastogastrii]; Emery, 1914a: 37 [Crematogastrini]; Santschi, 1914b: 84 [Cremastogastrii]; Emery, 1916b: 154 [Crematogastrini]; Forel, 1917: 242 [Crematogastrini]; Arnold, 1920a: 482 [Crematogastrini]; Emery, 1922e: 127 [Crematogastrini]; Wheeler, W.M. 1922a: 661 [Crematogastrini]; Chapman & Capco, 1951: 86 [Crematogasterini]; Kempf, 1972a: 263 [Crematogastrini]; Smith, D.R. 1979: 1376; Dlussky & Fedoseeva, 1988: 80 [Crematogasterini]; Hölldobler & Wilson, 1990: 16; Brandão, 1991: 390; Bolton, 1995b: 10; Bolton, 2003: 66, 237; Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Anergatini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Archaeomyrmecini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Calyptomyrmecini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Cardiocondyliini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Cataulacini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Formicoxenini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Hypopomyrmeciti: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Leptothoracini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Liomyrmecini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Lophomyrmecini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Melissotarsini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Meranoplinae: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Metaponini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Myrmecini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Ocymyrmecini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Paratopulini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Pheidologetini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Podomyrmini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Proattini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Solenomyrmini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Stereomyrmecini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Teleutomyrmini: Ward, *et al.* 2015: 77.

Crematogastrini as senior synonym of Tetramoriini: Ward, *et al.* 2015: 77.

[**CREMATOGASTRINI**: incorrect initial spelling by Forel, 1893a: 164; incorrect subsequent spelling by Emery, 1895j: 769, Forel, 1895b: 130, and many subsequent authors.]

[Note: throughout this catalogue names based on the original spelling *Crematogaster* are used, the incorrect subsequent spelling *Cremastogaster* is ignored. Discussions of spelling by Emery, 1912d: 272 (footnote), Wheeler, W.M. 1913a: 78, Donisthorpe, 1941f: 36, Buren, 1959: 125. The incorrect spelling is extremely common, especially in earlier literature.]

[**CREMACTOGASTERINI**: incorrect subsequent spelling by Ashmead, 1905b: 383.]

[**CREMATOGASTERINI**: incorrect subsequent spelling by Chapman & Capco, 1951: 86, Dlussky & Fedoseeva, 1988: 80.]

**Genera of Crematogastrini**: (genus groups abstracted from Blaimer, *et al.* 2018: 5, 6):

carebarine genus group: *Calyptomymex*, *Carebara*, *Cyphoidris*, *Dicroaspis*, *Diplomorium*, *Melissotarsus*, *Rhopalomastix*, *Strongylognathus*, *Tetramorium*.

cataulacine genus group: *Atopomyrmex*, *Cardiocondyla*, *Cataulacus*, *Nesomyrmex*, *Ocymymex*, *Terataner*, *Xenomyrmex*.

crematogastrine genus group: *Crematogaster*, *Meranoplus*.

formicoxenine genus group: *Formicoxenus*, *Gauromymex*, *Harpagoxenus*, *Leptothorax*, *Temnothorax*, *Vombisidris*.

lordomyrmine genus group: *Ancyridris*, *Lasiomyrma*, *Lordomyrma*, *Propodilobus*.

mayrielline genus group: *Dacatria*, *Kartidris*, *Mayriella*, *Proatta*, *Tetheamyrma*.

myrmecinine genus group: *Acanthomyrmex*, *Dilobocondyla*, *Myrmecina*, *Perissomyrmex*, *Pristomyrmex*.

paratopuline genus group: *Paratopula*, *Poecilomyrma*, *Romblonella*, *Rotastruma*.

podomyrmine genus group: *Adlerzia*, *Eutetramorium*, *Huberia*, *Liomyrmex*, *Lophomyrmex*, *Malagidris*, *Metapone*, *Podomyrma*, *Recurvidris*, *Royidris*, *Stereomyrmex*, *Trichomyrmex*, *Vitsika*.

vollenhoviine genus group: *Aretidris*, *Dacatinops*, *Indomyrma*, *Vollenhovia*.

**Crematogastrini** genera unplaced to genus group (after Ward, *et al.* 2015: 77):

\**Enneamerus*, \**Eocenomyrma*, \**Formosimyrmex*, \**Gaoligongidris*, \**Hypopomyrmex*, \**Lonchomyrmex*, \**Oxydris*, \**Parameranoplus*, \**Peronomyrmex*, \**Proleptothorax*, \**Rostromyrmex*, \**Secostruma*, \**Stigmomyrmex*, \**Stiphromyrmex*, \**Thanacomyrmex*.

**Crematogastrini references**: Ward, *et al.* 2015: 77 (**reclassification**); Blaimer, *et al.* 2018: 1 (genus groups of tribe); Fernández & Serna, 2019: 817 (Colombia fauna).

**CRYPTOCERINI** [junior synonym of Attini]

**Cryptoceridae** Smith, F. 1853: 214. Type-genus: *Cryptocerus* Latreille, 1803: 311 (junior synonym of *Cephalotes* Latreille, 1802a: 357).

#### **Taxonomic history**

Cryptocerini as group of Myrmicidae: Smith, F. 1853: 214 [Cryptoceridae].

Cryptocerini as subfamily of Formicidae: Smith, F. 1857a: 79 [Cryptoceridae]; Smith, F. 1860c: 74 [Cryptoceridae]; Smith, F. 1861b: 49 [Cryptoceridae]; Smith, F. 1862b: 35 [Cryptoceridae]; Smith, F. 1862d: 408 [Cryptoceridae]; Smith, F. 1867: 523 [Cryptoceridae]; Emery, 1875b: 470 [Cryptoceridei].

Cryptocerini as subfamily of Poneridae: Smith, F. 1858b: 187 [Cryptoceridae].

Cryptocerini as family: Smith, F. 1860a: 75 [Cryptoceridae]; Smith, F. 1862a: 49 [Cryptoceridae]; Smith, F. 1862d: 408 [Cryptoceridae]; Smith, F. 1871a: 334 [Cryptoceridae]; Ashmead, 1905b: 383 [Cryptoceridae].

Cryptocerini as group of Myrmicinae: Emery, 1877a: 72 [Cryptoceridae].

Cryptocerini as junior synonym of Myrmicinae: Emery & Forel, 1879: 456 [Cryptoceridae].

Cryptocerini as tribe of Myrmicinae: Forel, 1891b: 143 [Cryptocerini]; Forel, 1892d: 345 [Cryptocerini]; Forel, 1893a: 164 [Cryptocerii]; Emery, 1894g: 383 [Cryptocerinae]; Forel, 1895b: 132 [Cryptocerii]; Emery, 1895c: 325 [Cryptocerii]; Emery, 1895j: 763 [Cryptocerii]; Forel, 1899c: 43 [Cryptocerii]; Sharp, 1899: 169 [Cryptocerini]; Forel, 1908e: 66 [Cryptocerii]; Wheeler, W.M. 1910g: 141 [Cryptocerii]; Forel, 1892d: 344

[Cryptocerini]; Emery, 1914a: 39 [Cryptocerini]; Emery, 1915i: 192 [Cryptocerini]; Wheeler, W.M. 1915e: 491 [Cryptocerini (in text)]; Forel, 1917: 246 [Cryptocerini]; Wheeler, W.M. 1922a: 665 [Cryptocerini]; Emery, 1924d: 299 [Cryptocerini]; subsequent authors; Wheeler, G.C. & Wheeler, J. 1976b: 59 [Cryptocerini]; Dlussky & Fedoseeva, 1988: 79 [Cryptocerini].

Cryptocerini as junior synonym of Cephalotini: Smith, M.R. 1949c: 18; Kempf, 1951: 11; Bolton, 1995b: 10; Bolton, 2003: 56, 194.

[Note: Cephalotini retains priority over Cryptocerini under Article 40.2 of the International Code of Zoological Nomenclature (4th Edition), 1999: 46.]

Cryptocerini as junior synonym of Attini: Ward, *et al.* 2015: 77.

CYLINDROMYRMECINI [junior synonym of Dorylinae]

**Cylindromyrmii** Emery, 1901a: 34. Type-genus: *Cylindromyrmex* Mayr, 1870b: 967.

**Taxonomic history**

Cylindromyrmecini as tribe of Dorylinae: Emery, 1901a: 34 [Dorylinae, group Cerapachinae, tribe Cylindromyrmii]; Emery, 1904a: 116 [Cylindromyrmecii].

Cylindromyrmecini as tribe of Pachycondylineae: Ashmead, 1905b: 382 [Cylindromyrmicini].

Cylindromyrmecini as tribe of Ponerinae: Emery, 1911d: 14 [Cylindromyrmicini]; Arnold, 1915: 19 [Cylindromyrmicini]; Forel, 1917: 239 [Cylindromyrmicini]; Wheeler, W.M. 1922a: 640 [Cylindromyrmicini]; Chapman & Capco, 1951: 25 [Cylindromyrmicini]; Brown, 1975: 36 [Cylindromyrmecini]; Wheeler, G.C. & Wheeler, J. 1985: 256; Dlussky & Fedoseeva, 1988: 79; Hölldobler & Wilson, 1990: 10.

Cylindromyrmecini as tribe of Cerapachyinae: Wheeler, W.M. 1902d: 185 [Cylindromyrmii]; Wheeler, W.M. 1910g: 137 [Cylindromyrmii, subtribe of Cerapachysii]; Brown, 1954e: 27 (in text); Kempf, 1972a: 263; Bolton, 1990a: 67; Bolton, 1990c: 1357; Brandão, 1991: 390; Jaffe, 1993: 9; Bolton, 1994: 19; Bolton, 1995b: 10; De Andrade, 1998a: 581; Bolton, 2003: 33, 138.

Cylindromyrmecini as junior synonym of Dorylinae: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

DACETINI [junior synonym of Attini]

**Dacetonini** Forel, 1892d: 344. Type-genus: *Daceton* Perty, 1833: 136.

**Taxonomic history**

Dacetini as subfamily of Cryptoceridae: Ashmead, 1905b: 383 [Dacetonini].

Dacetiti as subtribe of Dacetini: Brown, 1952g: 10 (footnote); Brown, 1954b: 465; Brown & Wilson, 1959b: 281.

Dacetini as tribe of Myrmicinae: Forel, 1892d: 344 [Dacetonini]; Forel, 1893a: 164 [Dacetonii]; Forel, 1895b: 135 [Dacetonii]; Emery, 1895c: 325 [Dacetonii]; Emery, 1895j: 770 [Dacetii]; Forel, 1899c: 41 [Dacetii]; Forel, 1901b: 10 [Dacetii]; Wheeler, W.M. 1910g: 141 [Dacetonii]; Emery, 1914a: 39 [Dacetini]; Santschi, 1914b: 111 [Dacetonii]; Wheeler, W.M. 1915e: 491 [Dacetonii (in text)]; Emery, 1916b: 203 [Dacetini]; Arnold, 1917: 372; Forel, 1917: 246; Wheeler, W.M. 1922a: 655, 666 [Dacetonini]; Emery, 1924d: 312; Brown, 1948e: 125; Brown, 1952g: 10 (footnote); Brown, 1954b: 465; Brown & Wilson, 1959b: 281; Chapman & Capco, 1951: 104 [Dacetini]; Kempf, 1972a: 264; Smith, D.R. 1979: 1403 [Dacetini]; Dlussky & Fedoseeva, 1988: 80 [Dacetini]; Hölldobler & Wilson, 1990: 16; Brandão, 1991: 391; Bolton, 1994: 105 [Dacetonini]; Bolton, 1995b: 10; Bolton, 1999: 1639 [Dacetonini]; Bolton, 2000: 12 [Dacetini]; Bolton, 2003: 54, 185; Baroni Urbani & De Andrade, 2007: 81.

Dacetini as junior synonym of Attini: Ward, *et al.* 2015: 77.

**Dacetini references:** Mayr, 1887: 567 (Neotropical genera key); Emery, 1895j: 770 (diagnosis); Wheeler, W.M. 1910g: 141 (diagnosis); Emery, 1912b: 101 (phylogeny); Emery, 1914a: 39, 42 (diagnosis (in key), synoptic classification); Forel, 1917: 246 (synoptic classification); Wheeler, W.M. 1922a: 666, 917, 1034 (genera key, Afrotropical, Malagasy catalogues); Emery, 1924d: 312 (diagnosis, genera key, catalogue); Brown, 1948e: 125 (genera revision, key); Brown, 1949d: 1 (Japan, China, Taiwan fauna); Brown, 1953g: 2 (diagnosis, subtribal grouping); Brown & Wilson, 1959b: 278 (evolution, phylogeny); Wheeler, G.C. & Wheeler, J. 1976b: 60 (larvae, review and synthesis); Kugler, C. 1978a: 436 (sting structure); Bolton, 1983: 267, 273 (Afrotropical fauna, genera key), Dlussky & Fedoseeva, 1988: 80 (synoptic classification); Terayama & Kubota, 1989: 778 (Taiwan fauna); Hölldobler & Wilson, 1990: 16 (synoptic classification); Brandão, 1991: 391 (Neotropical fauna, synoptic classification); Arakelian & Dlussky, 1991: 149 (former U.S.S.R. fauna); Dlussky, 1993: 53 (Fiji Is, Tonga, Samoa fauna); Bolton, 1994: 105 (synoptic classification); Baroni Urbani & De Andrade, 1994: 9 (review of tribe, classification, phylogeny); Bolton, 1995a: 1040 (census); Bolton, 1995b: 10 (catalogue); Deyrup, 1997: 2 (Bahamas fauna); Bolton, 1998: 71 (comparative morphology, monophyly, relationships); Bolton, 1999: 1639 (diagnosis, mandible function, genera revision, morphology, phylogeny, classification, key); Bolton, 2000: 13 (diagnosis, genera key); Lyu, *et al.* 2001: 232 (Korea fauna); Fernández, 2003d: 316 (Neotropical genera); Bolton, 2003: 54, 185 (diagnosis, synopsis); Baroni Urbani & De Andrade, 2007: 81, 131 (classification, genera key); Sosa-Calvo, *et al.* 2010: 39 (Guyana species key).

DACETITI [junior synonym of Attini]

**Dacetiti** Brown, 1952g: 10 (footnote). Type-genus: *Daceton* Perty, 1833: 136.

**Taxonomic history**

Dacetiti as subtribe of Dacetini: Brown, 1952g: 10; Brown, 1954b: 465 (definition); Brown & Wilson, 1959b: 281; Brandão, 1991: 391.

Dacetiti as junior synonym of Dacetini: Baroni Urbani & De Andrade, 1994: 9; Bolton, 1995b: 10; Bolton, 2003: 54, 185.

Dacetiti as junior synonym of Attini: Ward, *et al.* 2015: 77.

DIMORPHOMYRMECINI [junior synonym of Gesomyrmecini]

**Dimorphomyrmii** Emery, 1895j: 772. Type-genus: *Dimorphomyrmex* André, 1892b: 49 (junior synonym of *Gesomyrmex* Mayr, 1868b: 50).

**Taxonomic history**

Dimorphomyrmecini as tribe of Camponotinae: Emery, 1895j: 772 [Dimorphomyrmii]; Ruzsky, 1905b: 110; Wheeler, W.M. 1910g: 143 [Dimorphomyrmii]; Forel, 1917: 248 [Dimorphomyrmicini].

Dimorphomyrmecini as tribe of Formicinae: Wheeler, W.M. 1922a: 693 [Dimorphomyrmicini]; Emery, 1925b: 39; Engel & Grimaldi, 2005: 4.

Dimorphomyrmecini as senior synonym of Gesomyrmecini: Emery, 1925b: 39; Engel & Grimaldi, 2005: 4

[Note: Emery, and Engel & Grimaldi, give Dimorphomyrmecini as senior synonym, but Gesomyrmecini retains priority over Dimorphomyrmecini under Article 40.2 of the International Code of Zoological Nomenclature (4th Edition), 1999: 46.]

Dimorphomyrmecini as junior synonym of Gesomyrmecini: Wheeler, W.M. 1929a: 12; subsequent authors; Bolton, 1995b: 10; Bolton, 2003: 23, 108; Ward, Blaimer & Fisher, 2016: 347.

DISCOTHYREINAE [junior synonym of Proceratiini]

**Discothyrinae** Clark, 1951: 15 (in key). Type-genus: *Discothyrea* Roger, 1863a: 176.

**Taxonomic history**

Discothyreinae as subfamily of Formicidae: Clark, 1951: 15 [Discothyrinae].

Discothyreinae as junior synonym of Ectatommini: Bolton, 1994: 164.

Discothyreinae as junior synonym of Proceratiini: Lattke, 1994: 112 [by implication as type-genus included in Proceratiini]; Bolton, 1995b: 10; Bolton, 2003: 49, 178.

## **DOLICHODERINAE** [subfamily of Formicidae]

**Dolichoderidae** Forel, 1878: 364. Type-genus: *Dolichoderus* Lund, 1831a: 130.

### **Taxonomic history**

Dolichoderinae as family: Emery, 1894g: 378 [Dolichoderidae]; Ashmead, 1905b: 384 [Dolichoderidae]; Novák & Sadil, 1941: 94 [Dolichoderidae]; Bernard, 1951: 1071 [Dolichoderidae]; Bernard, 1953b: 255 [Dolichoderidae].

Dolichoderinae as tribe of Formicidae: André, 1882a: 127 [Dolichoderidae].

Dolichoderinae as subfamily of Formicidae: Forel, 1878: 364 [Dolichoderidae]; Emery & Forel, 1879a: 454 [Dolichoderidae]; Emery, 1887a: 248 [Dolichoderidae]; Nasonov, 1889: 26 [Dolichoderidae]; Forel, 1890a: lxviii [Dolichoderides]; Forel, 1891b: 97 [Dolichoderidae]; Forel, 1892j: 220 [Dolichoderidae]; Forel, 1893a: 165; Forel, 1893g: 351 [Dolichoderidae]; Dalla Torre, 1893: 156 [Dolichoderinae]; Forel, 1894d: 13 [Dolichoderinae]; Forel, 1895b: 107 [Dolichoderidae]; Emery, 1895c: 330 [Dolichoderini]; Emery, 1895j: 771 [Dolichoderini]; Emery, 1896e: 186 [Dolichoderinae]; Mayr, 1897: 432 [Dolichoderini]; Forel, 1899c: 98; Sharp, 1899: 157 [Dolichoderides]; Forel, 1901b: 17 [Dolichoderinae]; Bingham, 1903: 288 [Dolichoderinae]; Ruzsky, 1905b: 102; Forel, 1908e: 63 [Dolichoderidae]; Wheeler, W.M. 1910g: 142 [Dolichoderinae]; Emery, 1913a: 2 [Dolichoderinae]; Santschi, 1913h: 35 [Dolichoderinae]; Santschi, 1914b: 117 [Dolichoderinae]; Arnold, 1915: 143; Wheeler, 1915g: 811 [Dolichoderides]; Wheeler, W.M. 1915h: 71; Arnold, 1915: 143; Donisthorpe, 1915d: 178; Emery, 1916b: 207 [Dolichoderinae]; Forel, 1917: 247; Escherich, 1917: 2 [Dolichoderini]; Bondroit, 1918: 86 [Dolichoderitae]; Wheeler, W.M. 1920: 53 [Dolichoderinae]; Wheeler, W.M. 1922a: 199, 687 [Dolichoderinae]; Borgmeier, 1923: 80; Karavaiev, 1936: 163; Chapman & Capco, 1951: 181; Smith, M.R. 1951a: 833; Clark, 1951: 16; Brown, 1954e: 29; Kempf, 1972a: 266; Wheeler, G.C. & Wheeler, J. 1972a: 41; Brown, 1973b: 169; Smith, D.R. 1979: 1415; subsequent authors; Bolton, 1995b: 10; Bolton, 2003: 18, 80; Brady, *et al.* 2006: 18173; Moreau, *et al.* 2006: 102; Ward, 2007a: 556; Boudinot, 2015: 50; Perkovsky, 2016: 113.

**Tribes of Dolichoderinae:** Bothriomyrmecini, Dolichoderini, Leptomyrmecini, \*Miomyrmecini, Tapinomini, \*Zherichiniini.

**Genera incertae sedis in Dolichoderinae:** \**Alloiomma*, \**Asymphylomyrmex*, \**Elaeomyrmex*, \**Elaphrodites*, \**Eldermyrmex*, \**Emplastus*, \**Eotapinoma*, \**Eurymyrmex*, \**Kotshkorkia*, \**Ktunaxia*, \**Miomyrmex*, \**Petraeomyrmex*, \**Proiridomyrmex*, \**Protazteca*, \**Zherichinius*.

**Dolichoderinae references, world:** Forel, 1878: 364, 380 (diagnosis, genera); Dalla Torre, 1893: 156 (catalogue); Emery, 1895j: 771 (synoptic classification); Emery, 1896e: 186 (genera key); Handlirsch, 1907: 869 (\*fossil taxa catalogue); Wheeler, W.M. 1910g: 142 (diagnosis); Emery, 1913a: 2, 6 (diagnosis, tribe key, catalogue); Emery, 1913a: 17 (Tapinomini diagnosis, genera key, catalogue); Arnold, 1915: 144, (diagnosis); Gallardo, 1916a: 3 (diagnosis); Forel, 1917: 247 (synoptic classification); Forel, 1921c: 136 (diagnosis); Wheeler, W.M. 1922a: 199, 687, 688 (diagnosis, tribe key, Tapinomini genera key); Brown & Nutting, 1950: 127 (venation, phylogeny); Brown, 1954e: 29 (phylogeny); Pavan, 1955: 135 (gastral organs); Eisner, 1957: 453 (proventriculus morphology); Bernard, 1967: 246 (diagnosis); Gotwald, 1969: 118 (mouthparts morphology); Wheeler, G.C. & Wheeler, J. 1972a: 41 (diagnosis); Brown, 1973b: 169 (genera and distribution); Wheeler, G.C. & Wheeler, J. 1976b: 61 (larvae, review and synthesis); Snelling, R.R. 1981: 401 (synoptic classification); Dazzini Valcurone & Fanfani, 1985: 1 (gastral glands); Taylor & Brown, 1985:92 (Australia catalogue); Wheeler, G.C. & Wheeler, J. 1985: 258 (synoptic classification); Billen, 1986: 173 (Dufour's gland); Billen, 1987: 278 (abdominal glands); Baroni

Urbani & Wilson, 1987: 1 (\*fossil Leptomyrmecini); Dlussky & Fedoseeva, 1988: 77 (synoptic classification); Hölldobler & Wilson, 1990: 9 (synoptic classification, genera keys); Baroni Urbani, *et al.* 1992: 316 (phylogeny); Shattuck, 1992b: 199 (higher classification, phylogeny); Shattuck, 1992c: 20 (revision of subfamily, genera key); Shattuck, 1994: 3 (catalogue); Bolton, 1994: 22 (diagnosis, synoptic classification, genera keys); Shattuck, 1995: 217 (phylogeny, genera); Bolton, 1995a: 1038 (census); Bolton, 1995b: 10 (catalogue); Wenseleers, Schoeters, *et al.*, 1998: 121 (cloacal gland); Brandão, Baroni Urbani, *et al.* 1999: 411 (phylogeny, genera); Chiotis, *et al.* 2000: 108 (phylogeny, genera); Dlussky & Rasnitsyn, 2002: 416 (diagnosis for impression fossils); Bolton, 2003: 18, 80 (diagnosis, synopsis); Dubovikoff, 2005a: 91 (tribes of Dolichoderinae); Brady, *et al.* 2006: 18173 (phylogeny); Moreau, *et al.* 2006: 102 (phylogeny); Ward, *et al.* 2010: 342 (phylogeny, tribe-rank classification); Keller, 2011: 1 (morphology, phylogeny); Boudinot, 2015: 50 (male diagnosis); Fisher & Bolton, 2016: 43 (diagnosis).

**Dolichoderinae: regional and national faunas with keys:** André, 1882a: 127 (Europe and Algeria); Nasonov, 1889: 50 (Russia); Forel, 1891b: 9 (Madagascar genera); Forel, 1895e: 460 (India and Sri Lanka); Bingham, 1903: 288 (India, Sri Lanka and Burma); Ruzsky, 1905b: 102 (Russian Empire); Bondroit, 1910: 488 (Belgium); Wheeler, W.M. 1910g: 560 (North America genera); Stitz, 1914: 77 (Central Europe); Gallardo, 1915: 34 (Argentina genera); Forel, 1915d: 40 (Switzerland); Arnold, 1915: 145 (South Africa); Donisthorpe, 1915d: 178 (Britain); Gallardo, 1916a: 12 (Argentina); Emery, 1916b: 208 (Italy); Wheeler, W.M. 1916m: 589 (U.S.A., Connecticut); Bondroit, 1918: 86 (France and Belgium); Gallardo, 1919b: 253 (Argentina genera); Soudek, 1922: 58 (Czechoslovakia); Stärcke, 1926: 117 (Netherlands); Karavaiev, 1927c: 271 (Ukraine); Donisthorpe, 1927b: 199 (Britain); Menozzi & Russo, 1930: 172 (Dominican Republic); Arnol'di, 1933b: 600 (Russia); Menozzi, 1933b: 90 (Israel genera); Karavaiev, 1936: 164 (Ukraine); Smith, M.R. 1937: 861 (Puerto Rico); Stitz, 1939: 209 (Germany); Kratochvíl, 1941: 94 (Central Europe); Novák & Sadil, 1941: 94 (Central Europe); Cole, 1942: 370 (U.S.A., Utah); Smith, M.R. 1943f: 309 (U.S.A. males); Buren, 1944a: 290 (U.S.A., Iowa); Smith, M.R. 1947f: 592 (U.S.A. genera); Creighton, 1950a: 330 (Nearctic); Kusnezov, 1956: 27 (Argentina); Brown, 1958h: 29 (New Zealand); Kusnezov, 1959: 40 (Neotropical genera); Gregg, 1963: 341 (U.S.A., Colorado); Wheeler, G.C. & Wheeler, J. 1963: 149 (U.S.A., North Dakota); Bernard, 1967: 246 (Western Europe); Wilson & Taylor, 1967: 17 (Polynesia); Bolton, 1973a: 329 (West Africa genera); Bolton & Collingwood, 1975: 3 (Britain); van Boven, 1970b: 24 (Netherlands); Snelling, R.R. & Hunt, 1976: 90 (Chile); Tarbinsky, 1976: 118 (Kyrgyzstan); van Boven, 1977: 123 (Belgium); Kutter, 1977c: 170 (Switzerland); Arnol'di & Dlussky, 1978: 546 (former European U.S.S.R.); Collingwood, 1978: 80 (Iberian Peninsula); Collingwood, 1979: 32 (Fennoscandia and Denmark); Greenslade, 1979: 28 (South Australia genera); Schembri & Collingwood, 1981: 420 (Malta); Allred, 1982: 443 (U.S.A., Utah); Baroni Urbani, 1984: 80 (Neotropical genera); Gösswald, 1985: 314 (Germany); Collingwood, 1985: 242 (Saudi Arabia); Wheeler, G.C. & Wheeler, J. 1986g: 55 (U.S.A., Nevada); Agosti & Collingwood, 1987b: 278 (Balkans); Dlussky, *et al.* 1990: 168 (Turkmenistan); Kupyanskaya, 1990: 152 (Far Eastern Russia); Morisita, *et al.*, 1991: 2 (Japan); Atanasov & Dlussky, 1992: 49 (Bulgaria); Lattke, in Jaffe, 1993: 147 (Neotropical genera); Arakelian, 1994: 70 (Armenia); Wu, J. & Wang, 1995: 115 (China genera); Kupyanskaya, 1995: 331 (Far Eastern Russia); Collingwood & Agosti, 1996: 359 (Saudi Arabia); Seifert, 1996b: 161 (Central Europe); Skinner & Allen, 1996: 40 (Britain); Collingwood & Prince, 1998: 20 (Portugal); Kim & Kim, 1999: 18 (Korea); Shattuck, 1999: 26, 64 (Australia genera, synopsis); Andersen, 2000: 59 (northern Australia genera); Zhou, 2001b: 149 (China, Guangxi); Czechowski, *et al.* 2002: 134 (Poland); Aktaş & Radchenko, 2002: 54 (Turkey genera); Yoshimura & Onoyama, 2002: 425 (Japan genera, males); Mackay & Mackay, 2002: 221 (U.S.A., New Mexico); Palacio & Fernández, in Fernández, 2003d: 239 (Neotropical genera); Radchenko, 2005b: 186 (North Korea); Coover, 2005: 102 (U.S.A., Ohio); Clouse, 2007b: 190 (Micronesia); Seifert, 2007: 147 (North and Central Europe); Fisher, 2009: 51 (Malagasy genera); Terayama, 2009: 196 (Taiwan); Heterick,

2009: 28 (south-western Australia genera); Boer, 2010: 14 (Benelux); Yoshimura & Fisher, 2011: 7 (Malagasy males key); Czechowski, *et al.* 2012: 342 (Poland); General & Alpert, 2012: 70 (Philippines genera key); Dlussky & Perfilieva, 2014: 433 (British Eocene species key); Baccaro, *et al.* 2015: 67, 126 (Brazil genera key, text); Guerrero, 2019: 693 (Colombia fauna).

### **DOLICHODERINI** [tribe of Dolichoderinae]

**Dolichoderidae** Forel, 1878: 364. Type-genus: *Dolichoderus* Lund, 1831a: 130.

#### **Taxonomic history**

Dolichoderini as tribe of Dolichoderinae: Emery, 1913a: 7 [Dolichoderini]; Wheeler, W.M. 1915h: 77; Emery, 1916b: 209; Forel, 1917: 247; Wheeler, W.M. 1922a: 688; Chapman & Capco, 1951: 181; Kempf, 1972a: 266; Smith, D.R. 1979: 1415; Dlussky & Fedoseeva, 1988: 78; Hölldobler & Wilson, 1990: 17; subsequent authors; Bolton, 2003: 81.

**Genus of Dolichoderini:** *Dolichoderus*.

[Material of the *nomen oblitum* **Hypoclineidae** referable here.]

### **DORYLINAE** [subfamily of Formicidae]

**Dorylida** Leach, 1815: 147 [as family-group name (Mutillarides family Dorylida)]. Type-genus: *Dorylus* Fabricius, 1793: 365.

#### **Taxonomic history**

Dorylinae as family: Haliday, 1836: 331 [Dorylidae]; Swainson & Shuckard, 1840: 175 [Dorylidae]; Shuckard, 1840a: 188 [Dorylidae]; Smith, F. 1859b: 1 [Dorylidae]; Mayr, 1866b: 895 [Dorylidae]; Smith, F. 1871a: 225 [Dorylidae]; André, 1882a: 125, 245 [Dorylidae]; Cresson, 1887: 93 [Dorylidae]; Emery, 1894g: 381 [Dorylidae]; Ashmead, 1905b: 381 [Dorylidae]; Ashmead, 1906: 21 [Dorylidae]; Bernard, 1951: 1046 [Dorylidae]; Bernard, 1953b: 217 [Dorylidae].

Dorylinae as subfamily of Dorylidae: Ashmead, 1905b: 381; Ashmead, 1906: 25.

Dorylini as tribe of Dorylinae: Forel, 1893a: 163 [Dorylii]; Emery, 1895j: 758 [Dorylii]; Sharp, 1899: 177 [Dorylini]; Forel, 1901a: 463 [Dorylii]; Emery, 1901a: 36 [Dorylii]; Emery, 1904a: 116 [Dorylii]; Ashmead, 1905b: 381 [Dorylini]; Ashmead, 1906: 25; Wheeler, W.M. 1910g: 137 [Dorylii]; Emery, 1910b: 5 [Dorylini]; Santschi, 1914b: 58 [Dorylini]; Arnold, 1915: 113; Forel, 1917: 239 [Dorylini]; Wheeler, W.M. 1922a: 633 [Dorylini]; Chapman & Capco, 1951: 9; Borgmeier, 1955: 57; Dlussky & Fedoseeva, 1988: 79; Hölldobler & Wilson, 1990: 11; Bolton, 2003: 36, 148 [Dorylini].

Dorylinae as subfamily of Formicidae: Westwood, 1842: 74 (in text) [Dorylides, “as a section of the Formicidae”]; Mayr, 1865: 16 [Dorylidae]; Dours, 1873: 167 [Dorylidae]; Emery, 1875b: 468 [Dorylidei]; Emery, 1877a: 71 [Dorylidae]; Forel, 1878: 365 [Dorylidae]; Emery & Forel, 1879a: 465 [Dorylidae]; André, 1881b: 64 [Dorylidae]; Emery, 1887b: 448 [Dorylidae]; Forel, 1890a: lxxviii [Dorylides]; Forel, 1892j: 220 [Dorylidae]; Forel, 1893a: 163 [Dorylinae]; Dalla Torre, 1893: 1 [Dorylinae]; Forel, 1895b: 118 [Dorylidae]; Emery, 1895c: 258 [Dorylini]; Emery, 1895j: 764 [Dorylini. Note: p. 764 (footnote) Emery writes, “Ich schreibe ‘Dorylini’ und nicht ‘Dorylinae’, um eine männliche Endung anzuwenden”]; Emery, 1896e: 174 [Dorylinae]; Mayr, 1897: 420 [Dorylini]; Forel, 1899c: 22; Sharp, 1899: 174 [Dorylides]; Forel, 1901a: 462 [Dorylinae]; Forel, 1901c: 139; Emery, 1901a: 36; Bingham, 1903: 1 [Dorylinae]; Forel, 1908e: 64 [Dorylidae]; Emery, 1910b: 3 [Dorylinae]; Santschi, 1910e: 648 [Dorylines]; Wheeler, W.M. 1910g: 137 [Dorylinae]; Santschi, 1913h: 35 [Dorylinae]; Santschi, 1914b: 58 [Dorylinae]; Arnold, 1915: 110; Emery, 1916b: 94 [Dorylinae]; Escherich, 1917: 2 [Dorylini]; Forel, 1917: 239 [Dorylinae]; Bondroit, 1918: 14 [Dorylidae]; Wheeler, W.M. 1920: 53 [Dorylinae]; Wheeler, W.M. 1922a: 39, 632 [Dorylinae]; Chapman & Capco, 1951: 9; Clark, 1951: 16; Brown, 1954e: 28; Borgmeier, 1955: 51; Kempf, 1972a: 265; Dlussky & Fedoseeva, 1988: 79; Hölldobler & Wilson, 1990: 11;

Bolton, 1990c: 1358; Bolton, 1995b: 10; Bolton, 2003: 36, 147; Brady & Ward, 2005: 593; Brady, *et al.* 2006: 18173; Moreau, *et al.* 2006: 102; Ward, 2007a: 555; Brady, *et al.* 2014: 5; Boudinot, 2015: 48; Borowiec, M.L. 2016: 14.

Dorylinae as senior synonym of Acanthostichini: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

Dorylinae as senior synonym of Aenictinae: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

Dorylinae as senior synonym of Aenictogitoninae: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

Dorylinae as senior synonym of Cerapachyinae: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

Dorylinae as senior synonym of Cheliomyrmecini: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

Dorylinae as senior synonym of Cylindromyrmecini: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

Dorylinae as senior synonym of Ecitoninae: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

Dorylinae as senior synonym of Eusphinctinae: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

Dorylinae as senior synonym of Leptanilloidinae: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

Dorylinae as senior synonym of Lioponerini: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

[**DORILINAE**: incorrect subsequent spelling by Santschi, 1937a: 49.]

**Genera of Dorylinae:** *Acanthostichus*, *Aenictogiton*, *Aenictus*, *Cerapachys*, *Cheliomyrmex*, *Chrysapace*, *Cylindromyrmex*, *Dorylus*, *Eburopone*, *Eciton*, *Eusphinctus*, *Labidus*, *Leptanilloides*, *Lioponera*, *Lividopone*, *Neivamyrmex*, *Neocerapachys*, *Nomamyrmex*, *Ooceraea*, *Parasyscia*, *\*Procerapachys*, *Simopone*, *Sphinctomyrmex*, *Syscia*, *Tanipone*, *Vicinopone*, *Yunodorylus*, *Zasphinctus*.

**Genera incertae sedis in Dorylinae:** *\*Curticornia*, *\*Eoanictites*.

**Dorylinae references:** Bolton, 1990c: 1344, 1351 (doryline section apomorphies, diagnosis); Bolton, 1990c: 1358 (Dorylinae diagnosis); Bolton, 2003: 31, 36 (dorylomorph subfamilies, Dorylinae); Brady & Ward, 593 (dorylomorph phylogeny); Brady, *et al.* 2014: 4 (phylogeny); Boudinot, 2015: 48 (male diagnosis); Borowiec, M.L. 2016: 18, 37, 52 (subfamily diagnosis, world key to genera (workers), world key to genera (males)); Fisher & Bolton, 2016: 45 (diagnosis)

**Dorylinae: regional and national faunas with keys:** [for other references see under the previous components of the subfamily]. Baccaro, *et al.* 2015: 70, 144 (Brazil genera key, text); Palacio, 2019: 577 (Colombia genera key).

**DORYLOZELINI** [junior synonym of Ponerini]

**Dorylozelini** Wheeler, W.M. 1922a: 646. Type-genus: *Dorylozelus* Forel, 1915b: 24 (junior synonym of *Leptogenys* Roger, 1861a: 41).

#### **Taxonomic history**

Dorylozelini as tribe of Ponerinae: Wheeler, W.M. 1922a: 646.

Dorylozelini as junior synonym of Ponerini: Taylor, 1969: 132; Bolton, 1995b: 11; Bolton, 2003: 43, 158; Schmidt, C.A. & Shattuck, 2014: 52.

**DREPANOGNATHINI** [junior synonym of Ponerini]

**Drepanognathini** Ashmead, 1905b: 382. Type-genus: *Drepanognathus* Smith, F. 1858b: 81 (junior synonym of *Harpegnathos* Jerdon, 1851: 116).

#### **Taxonomic history**

Drepanognathini as tribe of Poneridae, Pachycondylinae: Ashmead, 1905b: 382.

Drepanognathini as junior synonym of Harpegnathini: Emery, 1911d: 58.

Drepanognathini as junior synonym of Ponerini: Bolton, 1994: 164; Bolton, 1995b: 11; Bolton, 2003: 43, 158; Schmidt, C.A. & Shattuck, 2014: 52.

**ECITONINI** [junior synonym of Dorylinae]

**Ecitonii** Forel, 1893a: 163. Type-genus: *Eciton* Latreille, 1804: 179.

#### **Taxonomic history**

Ecitonini as tribe of Dorylinae: Forel, 1893a: 163 [Ecitonii]; Emery, 1895j: 765 [Ecitonii]; Forel, 1901a: 464 [Ecitonii]; Emery, 1901a: 36 [Ecitii]; Emery, 1904a: 116 [Ecitii]; Wheeler, W.M. 1910g: 138 [Ecitonii]; Emery, 1910b: 15 [Ecitini]; Santschi, 1914b: 67 [Ecitini]; Arnold, 1915: 113 [Ecitini]; Forel, 1917: 240 [Ecitini]; Gallardo, 1920: 309 [Ecitini]; Wheeler, W.M. 1922a: 634 [Ecitonini]; Donisthorpe, 1943f: 618 [Ecitini]; Chapman & Capco, 1951: 10 [Ecitonini]; Borgmeier, 1955: 77; Kempf, 1972a: 265 [Ecitonini]; Watkins, 1976: 6; Smith, D.R. 1979: 1327; Wheeler, G.C. & Wheeler, J. 1985: 256; Dlussky & Fedoseeva, 1988: 79.

Ecitonini as subfamily of Dorylidae: Ashmead, 1905b: 381 [Ecitoninae]; Ashmead, 1906: 23.

Ecitonini as tribe of Ecitoninae: Ashmead, 1905b: 381 [Ecitonini]; Ashmead, 1906: 24; Bolton, 1990c: 1357; Jaffe 1993: 12; Hölldobler & Wilson, 1990: 12; Brandão, 1991: 392; Bolton, 1994: 39; Bolton, 1995b: 11; Bolton, 2003: 35, 143.

Ecitonini as subfamily of Formicidae: Brown, 1973b: 166 [Ecitoninae]; Snelling, R.R. 1981: 392 [Ecitoninae]; Baroni Urbani, 1984: 74 [Ecitoninae]; Bolton, 1990c: 1357 [Ecitoninae]; Hölldobler & Wilson, 1990: 11 [Ecitoninae]; Brandão, 1991: 392 [Ecitoninae]; Bolton, 1995b: 11 [Ecitoninae]; Bolton, 2003: 34, 142 [Ecitoninae]; Brady & Ward, 2005: 593 [Ecitoninae]; Brady, *et al.* 2006: 18173 [Ecitoninae]; Moreau, *et al.* 2006: 102 [Ecitoninae]; Ward, 2007a: 555 [Ecitoninae].

Ecitonini as junior synonym of Dorylinae: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

**Ecitonini references:** Emery, 1895j: 765 (diagnosis); Ashmead, 1906: 23, 24 (tribes and genera keys); Emery, 1910b: 15, 16 (diagnosis, genera key, catalogue); Wheeler, W.M. 1910g: 138, 558 (diagnosis, North America genera); Forel, 1917: 240 (synoptic classification); Gallardo, 1920: 312 (Argentina genera, key); Wheeler, W.M. 1922a: 634 (genera key); Borgmeier, 1923: 37 (Brazil catalogue); Smith, M.R. 1943f: 290 (U.S.A. males); Creighton, 1950a: 61 (Nearctic); Borgmeier, 1955: 51, 57 (revision of subfamily, tribes key); Borgmeier, 1955: 79 (revision of tribe, genera key); Brown, 1973b: 166 (genera, distribution); Watkins, 1976: 6 (genera keys); Wheeler, G.C. & Wheeler, J. 1976b: 46 (larvae, review and synthesis); Snelling, R.R. 1981: 392 (synoptic classification); Gotwald & Burdette, 1981: 78 (phylogeny); Watkins, 1982: 210 (Mexico genera, key); Gotwald, 1982: 167 (genera key); Baroni Urbani, 1984: 74 (genera key); Wheeler, G.C. & Wheeler, J. 1986g: 17 (U.S.A., Nevada); Bolton, 1990c: 1357 (diagnosis, morphology, phylogeny); Brandão, 1991: 392 (Neotropical fauna, synoptic classification); Baroni Urbani, *et al.* 1992: 317 (phylogeny); Jaffe, 1993: 13 (Neotropical genera, synoptic classification); Latke, in Jaffe, 1993: 149 (genera key); Bolton, 1994: 38 (diagnosis, synoptic classification, genera key); Bolton, 1995a: 1039 (census); Hölldobler, *et al.* 1996: 158 (metatibial gland); Palacio, 1999: 143 (Colombia genera, key); Perfilieva, 2002: 1239 (venation); Palacio & Fernández, in Fernández, 2003d: 240 (Neotropical genera key); Brady, 2003: 6575 (phylogeny); Bolton, 2003: 34, 142 (diagnosis, synopsis); Brady & Ward, 2005: 593 (phylogeny); Moreau, *et al.* 2006: 102 (phylogeny); Brady, *et al.* 2006: 18173 (phylogeny); Ward, 2007a: 555 (classification); Keller, 2011: 1 (morphology, phylogeny).

## **ECTATOMMINAE** [subfamily of Formicidae]

**Ecatommi** Emery, 1895j: 767. Type-genus: *Ectatomma* Smith, F. 1858b: 102.

### **Taxonomic history**

Ecatomminae as subfamily of Formicidae: Bolton, 2003: 45, 172; Moreau, *et al.* 2006: 102; Brady, *et al.* 2006: 18173; Ouellette, *et al.* 2006: 365; Ward, 2007a: 556.

**Tribes of Ecatomminae:** Ecatommini, Typhlomyrmecini.

**Ecatomminae references:** Bolton, 2003: 45, 172 (diagnosis, synopsis); Ouellette, *et al.* 2006: 365 (phylogeny); Moreau, *et al.* 2006: 102 (phylogeny); Brady, *et al.* 2006: 18173 (phylogeny); Ward, 2007a: 556 (classification); Keller, 2011: 1 (morphology, phylogeny); Baccaro, *et al.* 2015: 76, 168

(Brazil genera key, text); Camacho & Feitosa, in Delabie, Feitosa, *et al.* 2015: 23 (phylogeny, taxonomy); Feitosa & Prada-Achiardi, 2019: 659 (phylogeny, Colombia fauna).

### **ECTATOMMINI** [tribe of Ectatomminae]

**Ectatommi** Emery, 1895j: 767. Type-genus: *Ectatomma* Smith, F. 1858b: 102.

#### **Taxonomic history**

Ectatommini as tribe of Pachycondylinae: Ashmead, 1905b: 382 [Ectatommini].

Ectatommini as tribe of Ponerinae: Emery, 1895j: 767 [Ectatommi]; Emery, 1901a: 36 [Ectatommi]; Ruzsky, 1905b: 174 [Ectatommi]; Wheeler, W.M. 1910g: 134 [Ectatommi]; Emery, 1911d: 30 [Ectatommini]; Wheeler, W.M. 1915h: 33; Forel, 1917: 236 [Ectatommini]; Gallardo, 1918b: 7; Wheeler, W.M. 1922a: 642 [Ectatommini]; Chapman & Capco, 1951: 25; Brown, 1958g: 175; Kusnezov, 1964: 50; Kempf, 1972a: 262; Smith, D.R. 1979: 1336; Wheeler, G.C. & Wheeler, J. 1985: 256; Dlussky & Fedoseeva, 1988: 78; Hölldobler & Wilson, 1990: 10; Brandão, 1991: 389; Jaffe, 1993: 8; Bolton, 1994: 164; Bolton, 1995b: 11.

Ectatommini as tribe of Ectatomminae: Bolton, 2003: 46, 173; Feitosa & Prada-Achiardi, 2019: 659.

Ectatommini as senior synonym of Stictoponerini: Brown, 1958g: 211 [by implication as type-genus included in Ectatommini]; Taylor, 1980c: 354; Bolton, 1994: 164; Bolton, 195b: 11; Bolton, 2003: 46, 173.

**Genera of Ectatommini:** \**Canapone*, *Ectatomma*, \**Electroponera*, *Gnamptogenys*, \**Pseudectatomma*, *Rhytidoponera*.

**Ectatommini references:** Wheeler, W.M. 1910g: 134 (diagnosis); Emery, 1911d: 30 (diagnosis, genera key); Forel, 1917: 236 (synoptic classification); Gallardo, 1918b: 11 (Argentina, key); Wheeler, W.M. 1922a: 642 (genera key); Brown, 1958g: 185 (all genera revision, key); Wheeler, G.C. & Wheeler, J. 1976b: 49 (larvae, review and synthesis); Hölldobler & Wilson, 1990: 10 (synoptic classification); Kugler, C. 1991: 155 (sting structure, phylogeny); Bolton, 1994: 164 (synoptic classification); Lattke, 1994: 105 (phylogeny); Bolton, 1995a: 1042 (census); Bolton, 1995b: 11 (catalogue); Keller, 2000: 59 (phylogeny); Bolton, 2003: 46, 173 (diagnosis, synopsis); Ouellette, *et al.* 2006: 359 (phylogeny); Fernández & Arias-Penna, 2008: 30 (Neotropical genera key); General & Alpert, 2012: 71 (Philippines genera key); Dlussky & Wedmann, 2012: 728 (Germany Eocene fossils); Feitosa & Prada-Achiardi, 2019: 662 (Colombia).

### EPOPOSTRUMITI [junior synonym of Attini]

**Epopostrumiti** Brown, 1952g: 10 (footnote). Type-genus: *Epopostruma* Forel, 1895f: 422.

#### **Taxonomic history**

Epopostrumiti as subtribe of Dacetini: Brown, 1952g: 10 (footnote); Brown, 1954b: 465 (definition); Brown & Wilson, 1959b: 281.

Epopostrumiti as junior synonym of Dacetini: Baroni Urbani & De Andrade, 1994: 9; Bolton, 1995b: 10; Bolton, 2003: 54, 185.

Epopostrumiti as junior synonym of Attini: Ward, *et al.* 2015: 77.

### ERICAPELTINI [junior synonym of Amblyoponinae]

**Ericapeltini** Kusnezov, 1955: 275. Type-genus: *Ericapelta* Kusnezov, 1955: 273 (junior synonym of *Stigmatomma* Roger, 1859: 250).

#### **Taxonomic history**

Ericapeltini as subtribe of Amblyoponini: Kusnezov, 1955: 275.

Ericapeltini as junior synonym of Amblyoponinae: Brown, 1960a: 156 [by implication as type-genus included in Amblyoponini]; Bolton, 1994: 164; Bolton, 1995b: 9; Bolton, 2003: 42, 153.

### EUCAMPONOTINAE [unavailable name]

Eucamponotinae Forel, 1912i: 88 [as "section" of Camponotinae]. Unavailable name, not based on genus rank taxon.

[Note: section designated to include tribes Camponotini, Formicini, Gesomyrmecini, Oecophyllini, and Prenolepidini. Contained material referable to Formicinae (Bolton, 1994: 51, Bolton, 1995b: 11, Bolton, 2003: 265).]

### EUDOLICHODERINAE [unavailable name]

Eudolichoderinae Forel, 1917: 247 [as "section" of Dolichoderinae]. Unavailable name, not based on genus rank taxon.

[Note: section designated to include tribe Tapinomini. Contained material referable to Dolichoderinae (Bolton, 1994: 27, Bolton, 1995b: 11, Bolton, 2003: 265).]

### EUDORYLINAE [unavailable name]

Eudorylinae Forel, 1917: 239 [as "section" of Dorylinae]. Unavailable name, not based on genus rank taxon.

[Note: section designated to include tribe Dorylini. Contained material referable to Dorylinae (Bolton, 1990c: 1358, Bolton, 1995b: 11, Bolton, 2003: 265).]

### EUFORMICINAE [unavailable name]

Euformicinae Emery, 1925b: 37 [as "section" of Formicinae]. Unavailable name, not based on genus rank taxon.

[Note: section designated to include tribes Brachymyrmecini, Camponotini, Dimorphomyrmecini, Formicini, Gigantiopini, Lasiini, Oecophyllini and Santschiellini. Contained material referable to Formicinae (Bolton, 1994: 51, Bolton, 1995b: 11, Bolton, 2003: 265).]

### EUMYRMICINAE [unavailable name]

Eumyrmicinae Emery, 1914a: 35 [as "section" of Myrmicinae]. Unavailable name, not based on genus rank taxon.

Eumyrmicinae as unavailable name: Emery, 1921f: 34.

[Note: section designated to include all Myrmicinae except Metaponini and Pseudomyrmecini. Contained material referable to Myrmicinae (Bolton, 1994: 106, Bolton, 1995b: 11, Bolton, 2003: 265).]

### EUPONERINAE [junior synonym of Ponerini]

**Euponerinae** Emery, 1909c: 355. Type-genus: *Euponera* Forel, 1891b: 126.

#### **Taxonomic history**

Euponerinae as group of Ponerinae: Emery, 1909c: 355.

[Note: group designated to contain tribes Ponerini and Odontomachini.]

Euponerinae as "sectio" of Ponerinae: Emery, 1911d: 53.

Euponerinae as tribe of Ponerinae: Donisthorpe, 1943f: 626 [Euponerini].

Euponerinae as junior synonym of Ponerini: Bolton, 1994: 164; Bolton, 1995b: 11; Bolton, 2003: 43, 158; Schmidt, C.A. & Shattuck, 2014: 52.

### EUSPHINCTINAE [junior synonym of Dorylinae]

**Eusphinctinae** Clark, 1951: 15 (diagnosis in key). Type-genus: *Eusphinctus* Emery, 1893a: cclxxv.

#### **Taxonomic history**

Eusphinctinae as subfamily of Formicidae: Clark, 1951: 15.

Eusphinctinae as junior synonym of Cerapachyini: Bolton, 1990a: 66; Bolton, 1990c: 1356; Bolton, 1995b: 10; Bolton, 2003: 33, 139.

Eusphinctinae as junior synonym of Dorylinae: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

### EXAMBLYOPONINI [junior synonym of Amblyoponinae]

**Examblyoponini** Donisthorpe, 1949g: 401. Type-genus: *Examblyopone* Donisthorpe, 1949g: 401 (junior synonym of *Prionopelta* Mayr, 1866a: 503).

**Taxonomic history**

Examblyoponini as tribe of Ponerinae: Donisthorpe, 1949g: 401.

Examblyoponini as junior synonym of Amblyoponinae: Brown, 1951: 102; Bolton, 1995b: 9; Bolton, 2003: 42, 153.

**EXEUPONERINAE** [unavailable name]

Exeuponerinae Donisthorpe, 1943d: 438 [as "section" of Ponerinae]. Unavailable name, not based on genus rank taxon.

[Note: section designated to include only *Pseudoneoponera*. Contained material referable to Ponerini (Bolton, 1994: 164, Bolton, 1995b: 11, Bolton, 2003: 265).]

**FORMICIDAE** [family of Hymenoptera, Aculeata]

**Formicariae** Latreille, 1802a: 352 [as family-group name]. Type-genus: *Formica* Linnaeus, 1758: 579.

**Taxonomic history**

Formicidae as family: Latreille, 1802a: 532 [Formicariae]; Latreille, 1803: 311 [Formicaires]; Latreille, 1804: 178 [Formicariae]; Latreille, 1809: 124 [Formicariae]; Latreille, 1810: 285 [Formicariae]; Leach, 1815: 147 [Formicarides]; Latreille, 1817d: 14 [Formicariae]; Billberg, 1820: 104 [Formicaedes]; Stephens, 1829: 356 [first spelling as Formicidae]; Brullé, 1836: 326 [Formicaires]; Haliday, 1836: 331 [Formicidae]; Zetterstedt, 1838: 447 [Formicariae]; Westwood, 1839: 217 [Formicidae]; Swainson & Shuckard, 1840: 171 [Formicidae]; Le Guillou, 1842: 313 [Formicaires]; Nylander, 1846a: 877 [Formicidae]; Foerster, 1850a: 1 [Formicariae]; Smith, F. 1851: 1 [Formicidae]; Mayr, 1855: 275 [Formicina]; Nylander, 1856b: 53 [Formicidae]; Smith, F. 1857a: 52 [Formicidae]; Smith, F. 1858b: 1 [Formicidae]; Mayr, 1861: 21 [Formicidae]; Meinert, 1861: 305 [Formicae]; Smith, F. 1861b: 36 [Formicidae]; Mayr, 1865: 1 [Formicidae]; Heer, 1867: 6 [Formicaria]; Forel, 1870: 307 [Formicinae]; Dours, 1873: 164 [Formicariae]; Forel, 1874: 19, 95 [Formicariae]; Emery, 1877a: 70 [Formicidae]; André, 1881: 125, 126 [Formicidae]; White, W.F. 1884: 249 [Formicidae]; Dalla Torre, 1893: 1 [Formicidae]; Forel, 1899c: 1 [Formicidae]; Ruzsky, 1902d: 5 [Formicarii]; Bingham, 1903: 1 [Formicidae]; Ruzsky, 1905b: 91 [Formicariae or Formicidae]; Ashmead, 1905b: 384 [Formicidae]; Wheeler, W.M. 1910g: 134 [Formicidae]; Santschi, 1914b: 43 [Formicidae]; Arnold, 1915: 6 [Formicidae]; Wheeler, W.M. 1915g: 805 [Formicidae]; Emery, 1916b: 79 [Formicidae]; Wheeler, W.M. 1922a: 727 [Formicidae]; Emery, 1925b: 1 [Formicidae]; subsequent authors; Bolton, 2003: 15, 77 [Formicidae].

**Subfamilies of Formicidae:** Agroecomyrmecinae, Amblyoponinae, Aneuretinae, Apomyrminae, \*Brownimeciinae, Dolichoderinae, Dorylinae, Ectatomminae, \*Formiciinae, Formicinae, \*Haidomyrmecinae, Heteroponerinae, Leptanillinae, Martialinae, Myrmeciinae, Myrmicinae, Paraponerinae, Ponerinae, Proceratiinae, Pseudomyrmecinae, \*Sphecomyrminae.

**Family-group names unavailable in Formicidae:** Alloformicinae, Eucamponotinae, Eudolichoderinae, Eudorylinae, Euformicinae, Eumyrmicinae, Exeuponerinae, Heteroformicinae, Heterogyna, Mesocamponotinae, Metadorylinae, Mycetomyrminae, Neoattini, Paleoattini, Paleoponerinae, Philipona, Procamponotinae, Prodolichoderinae, Prodorylinae, Promyrmicinae, Proponerinae, Pseudoponerinae, Rhagiomyrmicinae, Socialia, Sodales, Taraxoponerinae.

**Genus-group names *incertae sedis* in Formicidae:** \**Archaeopone*, \**Baikuris*, \**Calyptites*, \**Camelomecia*, \**Condylodon*, \**Dlusskyidris*, \**Eoformica*, \**Hypochira*, \**Klondikia*, \**Kohlsimyрма*, \**Myanmyrma*, \**Poneropterus*.

**Genus-group names unavailable in Formicidae:** *\*Ectatona*, *Pseudacantholepis*, *Sphaeromessor*, *Sulcomyrmex*.

**Genus-group names *nomina nuda* in Formicidae:** *Ancylognathus*, *\*Dolichoformica*, *Hypopheidole*, *Leptoxenus*, *Myrmegis*, *Pergandeia*, *Salticomorpha*, *Savignyi*, *Titusia*.

**Genus-group names excluded from Formicidae:** *\*Cariridris*, *\*Cretacoformica*, *\*Cretopone*, *\*Dolichomyrma*, *Formila*, *\*Khetania*, *\*Myrmicium*, *\*Palaeomyrmex*, *\*Petropone*, *\*Promyrmicium*, *\*Syntaphus*.

**Formicidae: introductory references:** Hölldobler & Wilson, 1990: 1 (introduction to myrmecology); Bolton, 1995a: 1038 (census of extant taxa); Ward, *et al.* 1996: 55 (bibliography of systematics); Brown, 2000: 46 (overview of genera); Brandão, 2000: 172 (list of major ant collections); Bolton, 2003: 15, 77 (diagnoses, synopses); Boudinot, 2015: 12 (diagnosis).

**Formicidae: world and zoogeographical regional catalogues:** Roger, 1863b: 1 (world Formicidae); Mayr, 1863: 394 (world Formicidae); Dalla Torre, 1893: 1 (world Formicidae); Emery, 1910b: 3 (world Dorylinae); Emery, 1911d: 2 (world Ponerinae); Emery, 1913a: 2 (world Dolichoderinae); Wheeler, W.M. 1922a: 727, 1005 (Afrotropical and Malagasy); Emery, 1921f: 3, Emery, 1922e: 95, and Emery, 1924d: 207 (world Myrmicinae); Emery, 1925b: 2 (world Formicinae); Chapman & Capco, 1951: 9 (Oriental and Malesian); Smith, M.R. 1951a: 778 (Nearctic); Smith, M.R. 1958c: 108 (Nearctic, first supplement to previous); Smith, M.R. 1967: 343 (Nearctic, second supplement); Kempf, 1972a: 3 (Neotropical); Smith, D.R. 1979: 1323 (Nearctic); Taylor & Brown, 1985: 5 (Austral); Taylor, R.W. 1987a: 1, and Taylor, R.W. 1987b: 1 (Austral); Brandão, 1991: 319 (Neotropical, supplement to Kempf, 1972a); Shattuck, 1994: 1 (world Aneuretinae and Dolichoderinae); Bolton, 1995b: 7 (world Formicidae, extant and fossil).

**Formicidae: world synoptic classifications:** Mayr, 1865: 6 (Formicidae); Forel, 1893a: 161 (Formicidae); Emery, 1895j: 764 (Formicidae); Emery, 1896e: 173 (Formicidae); Ashmead, 1905b: 381 (Formicidae); Wheeler, W.M. 1910g: 134 (Formicidae); Emery, 1910b: 3 (Dorylinae); Emery, 1911d: 2 (Ponerinae); Emery, 1913a: 2 (Dolichoderinae); Forel, 1917: 235 (Formicidae); Emery, 1921f: 3, and Emery, 1922e: 95 (Myrmicinae); Wheeler, W.M. 1922a: 631 (Formicidae); Emery, 1924d: 207 (Myrmicinae); Emery, 1925b: 2 (Formicinae); Brown, 1973b: 165, 178 (Formicidae); Snelling, R.R. 1981: 387 (Formicidae); Wheeler, G.C. & Wheeler, J. 1985: 256 (Formicidae); Dlussky & Fedoseeva, 1988: 77 (Formicidae); Hölldobler & Wilson, 1990: 9 (Formicidae); Bolton, 1994: 12 (Formicidae); Bolton, 2003: 77 (Formicidae); Engel & Grimaldi, 2005: 4 (Formicidae); Ward, 2007a: 549 (Formicidae); Boudinot, 2015: 12 (Formicidae).

**Formicidae: world and zoogeographical regional identification keys to higher taxa:** Forel, 1891b: 8 (Madagascar genera key); Emery, 1896e: 173 (Formicidae subfamilies and genera); Emery, 1910b: 4 (Dorylinae tribes and genera); Emery, 1911d: 4 (Ponerinae tribes and genera); Emery, 1913a: 6 (Dolichoderinae tribes and genera); Escherich, 1917: 2 (Formicidae subfamilies); Emery, 1921f: 9, 12, 16 (Myrmicinae tribes and genera); Arnold, 1915: 9 (Formicidae Africa subfamilies); Wheeler, W.M. 1922a: 631 (Formicidae subfamilies, tribes and genera); Emery, 1925b: 7 (Formicinae tribes and genera); Clark, 1951: 14 (Formicidae subfamilies); Wheeler, G.C. & Wheeler, J. 1972a: 42 (Formicidae subfamilies); Bolton, 1973a: 321 (West Africa subfamilies, genera); Snelling, R.R. 1981: 386 (Formicidae subfamilies); Baroni Urbani, 1984: 74 (Neotropical subfamilies and genera); Hölldobler & Wilson, 1990: 33 (Formicidae subfamilies and genera); Bolton, 1990c: 1361 (Formicidae subfamilies); Shattuck, 1992c: 20 (Dolichoderinae genera); Ward, 1990: 464 (Pseudomyrmecinae genera); Brothers & Finnermore, 1993: 218 (Formicidae subfamilies); Bolton, 1994: 7 (Formicidae subfamilies and genera); Bolton, 2003: 11 (Formicidae subfamilies); Boudinot, 2015: 14 (Formicidae subfamilies, males); Fisher & Bolton, 2016: 28, 60, 128 (Afrotropical and Malagasy subfamilies, Afrotropical genera, Malagasy genera); Fernández, Guerrero & Delsinne, 2019c: 459 (Neotropical subfamilies and genera); Boudinot, 2019: 489 (Neotropical subfamilies and genera, males key).

**Formicidae: evolution and phylogeny:** Wheeler, W.M. 1920: 52; Emery, 1920d: 370; Donisthorpe, 1922: xlvi; Wheeler, W.M. 1923f: 156; Wheeler, W.M. 1928f: 124; Stitz, 1936: 211; Morley, 1938: 190; Brown & Nutting, 1950: 113; Bernard, 1951: 1041; Brown, 1954e: 30; Wilson, *et al.* 1967: 12; Taylor, 1978a: 982; Rasnitsyn, 1980: 45-46 (foldout page); Lutz, 1986: 213; Dlussky & Fedoseeva, 1988: 137; Baroni Urbani, 1989: 137; Hölldobler & Wilson, 1990: 26; Hashimoto, 1991a: 125; Hashimoto, 1991b: 289; Baroni Urbani, *et al.* 1992: 301; Shattuck, 1992b: 203; Brothers & Carpenter, 1993: 227; Ward, 1994: 173; Hashimoto, 1996: 340; Crozier, *et al.* 1997: 22; Grimaldi, *et al.* 1997: 25; Perrault, 1999: 125; Brothers, 1999: 233; Grimaldi & Agosti, 2000: 13680; Ward & Brady, 2003: 361; Ohnishi, *et al.* 2003: 419; Astruc, *et al.* 2004: 880; Ward & Downie, 2005: 310; Grimaldi & Engel, 2005: 440; Wilson & Hölldobler, 2005: 7411; Brady, *et al.* 2006: 18172; Moreau, *et al.* 2006: 101; Ouellette, *et al.* 2006: 359; Ward, 2007a: 549; Perrichot, Lacau, *et al.* 2008: 85; Rabeling, *et al.* 2008: 14914; Moreau, 2009: 201; Ward, *et al.* 2010: 342; Keller, 2011: 1; Moreau & Bell, 2011: 22; Johnson, B.R. *et al.* 2013: 2058; Moreau & Bell, 2013: 2240; Schmidt, 2013: 201; Ward, *et al.* 2015: 61; Branstetter, *et al.* 2017: 774; Borowiec, M.L., Rabeling, *et al.* 2019: 111; Fernández, Guerrero & Delsinne, 2019b: 57.

**Formicidae: morphology:** Forel, 1878: 339 (proventriculus); Forel, 1885a: 1 (antennal sensillae); Emery, 1888d: 379 (proventriculus); Janet, 1902: 25 (general anatomy); Pietschker, 1911: 43 (brain structure); Wheeler, W.M. 1910g: 13 (general morphology); Emery, 1913c: 577 (venation); Wheeler, W.M. 1918c: 293 (larvae); Crampton, 1919: 129 (male genitalia); Janet, 1923: 5 (anatomical drawings synopsis); Bugnion, 1930: 85 (mouthparts); Brown & Nutting, 1950: 113 (venation); Gregg, 1953a: 328 (promesonotal suture motility); Eisner, 1957: 439 (proventriculus); Gotwald, 1969: 1 (mouthparts and gaster); Crozier, 1970: 109 (karyology); Markl, 1973: 258 (stridulitrum); Wheeler, G.C. & Wheeler, J. 1976b: 45 (larvae); Hölldobler & Engel, 1979: 285 and Hölldobler & Engel-Siegel, 1982: 113 (tergal and sternal glands); Imai, Baroni Urbani, Kubota *et al.* 1984: 5 (karyology); Imai, *et al.* 1984: 66 (karyology); Imai, *et al.* 1985: 46 (karyology); Hölldobler & Engel-Siegel, 1985: 201 (metapleural gland); Billen, 1986: 165 (Dufour's gland); Wheeler, G.C. & Wheeler, J. 1986e: 684 (larvae); Brown, 1988h: 17 (malpighian tubule numbers); Caetano, 1988: 129 (digestive tract anatomy); Francoeur & Loiselle, 1988a: 333 (strigil, evolution); Hölldobler & Wilson, 1990: 5, 229 (anatomy, exocrine glands); Hashimoto, 1991a: 125 (antennal and labial sensilla); Hashimoto, 1991b: 289 (tibial spurs); Billen, 1993: 4 (exocrine glands); Bolton, 1994: 191 (morphology glossary); Hölldobler, *et al.* 1996: 157 (metatibial gland); Wenseleers, *et al.* 1998: 121 (cloacal gland); Perrault, 1999: 125 (thoracic anatomy); Perrault, 2004: 291 (anterior metasomal anatomy); Keller, 2011: 1 (phylogenetic analysis of morphology); Boudinot, 2013: 29 (male genitalia); Keller, *et al.* 2014: 1 (thorax architecture); Boudinot, 2015: 12 (males); Fisher & Bolton, 2016: 459 (morphology and venation glossary); Cantone, 2017: 6 (winged male ant genera key); Fedoseeva, 2017: 49 (metathoracic spiracles); Cantone & Von Zuben, 2019: 1 (hindwing phylogeny); Billen, 2019: 165 (synopsis of exocrine glands); Delsinne, Serna, *et al.* 2019: 387 (morphology glossary).

**Formicidae: palaeontology:** Heer, 1849: 1 (Miocene ants, Germany and Croatia); Mayr, 1867b: 47 (Miocene ants Croatia); Emery, 1891a: 141 (Sicilian Amber); Scudder, 1891: 682 (fossil taxa catalogue); André, 1895b: 80 (Baltic Amber); Emery, 1905b: 187 (Baltic Amber); Handlirsch, 1907: 859 (fossil taxa catalogue); Wheeler, W.M. 1915h: 1 (Baltic amber fauna synopsis); Théobald, 1937b: 127 (fossil ants France); Burnham, 1979: 108 (fossils in amber checklist); Keilbach, 1982: 272 (fossils in amber checklist); Spahr, 1987: 41 (fossils in amber checklist); Carpenter, 1992: 490 (fossil genera review); Bolton, 1995b: 4 (fossil taxa checklist); Grimaldi, *et al.* 1997: 1 (Cretaceous genera in amber); Dlussky, 1997: 617 (Baltic amber genera key); Hong 2002: 524 (Chinese Amber); Bolton, 2003: 73 (fossil subfamilies synopsis); Grimaldi & Engel, 2005: 440 (fossil ants synopsis); Dlussky & Rasnitsyn, 2007: 118 (Palaeontological record); Dlussky & Rasnitsyn, 2009: 1024 (European Upper Eocene amber, synopsis of species); Dlussky & Perfilieva, 2014: 433 (Bembridge Marls (Eocene, U.K.) species, key); Dlussky & Putyatina, 2014:

237 (Miocene ants Croatia); Perkovsky, 2016: 113 (list of ants in Late Eocene ambers); Perrichot, Wang & Engel, 2016: 1468 (Cretaceous, morphology); Barden, 2017: 1, 7 (Mesozoic fossil ants synopsis, list of fossil ant deposits and their contents); Perrichot, Wang & Barden, 2020: 1 (\*Haidomyrmecinae).

**\*FORMICIINAE** [subfamily of Formicidae]

\***Formiciinae** Lutz, 1986: 181. Type-genus: \**Formicium* Westwood, 1854: 393.

**Taxonomic history**

\*Formiciinae as subfamily of Formicidae: Lutz, 1986: 181; Lutz, 1990: 1; Hölldobler & Wilson, 1990: 17; Baroni Urbani, *et al.* 1992: 317; Bolton, 1994: 187; Bolton, 1995b: 11; Bolton, 2003: 75, 262; Ward, 2007a: 557; Perkovsky, 2016: 115.

**Genus of \*Formiciini:** \**Titanomyrma*.

**Collective group name in \*Formiciini:** \**Formicium*.

\***Formiciinae and collective group name \*Formicium references:** Lutz, 1986: 182 (diagnosis, **all species revision, key**, phylogeny); Hölldobler & Wilson, 1990: 24 (diagnosis); Lutz, 1990: 61 (subfamily synopsis; review of genus); Bolton, 1995b: 206 (catalogue); Bolton, 2003: 75, 262 (diagnosis, synopsis); Archibald, *et al.* 2011: 3680 (synopsis).

**FORMICINAE** [subfamily of Formicidae]

**Formicariae** Latreille, 1802a: 352 [as family-group name]. Type-genus: *Formica* Linnaeus, 1758: 579.

**Taxonomic history**

Formicinae as family: Smith, F. 1861: 36 [Formicidae]; Smith, F. 1871a: 302; André, 1882a: 125; Saunders, 1896: 18; Novák & Sadil, 1941: 97; Bernard, 1951: 1073 [Formicidae]; Bernard, 1953: 256 [Formicidae].

Formicinae as tribe of Formicidae: André, 1874: 167 [Formicidae].

Formicinae as subfamily of Formicidae: Lepeletier de Saint-Fargeau, 1835: 197 [Heterogynides, tribu Formicites]; Nylander, 1846a: 877 [Formicae]; Mayr, 1855: 286, 299 [Formicina, Formicidae]; Nylander, 1856b: 53 [Formicineae]; Mayr, 1861: 21, 25 [Formicidae, Formicidae]; Mayr, 1862: 651 [Formicidae]; Mayr, 1865: 6 [Formicidae]; Mayr, 1868b: 24 [Formicidae]; Forel, 1870: 307 [Formicidae]; Dours, 1873: 164 [Formicidae]; Forel, 1874: 21, 37 [Formicariae, Formicidae]; Emery, 1877a: 70 [Formicidae]; Ashmead, 1905b: 384 [Formicinae]; Bondroit, 1918: 17 [Formicidae]; Wheeler, W.M. 1920: 53 [Formicinae]; Wheeler, W.M. 1922a: 210, 691 [Formicinae]; Emery, 1925b: 2 [Formicinae]; Karavaiev, 1936: 172; Chapman & Capco, 1951: 197; Clark, 1951: 16; Smith, M.R. 1951a: 838; Brown, 1954b: 29; Kempf, 1972a: 266; Brown, 1973b: 169; Baroni Urbani, 1984: 81; Hölldobler & Wilson, 1990: 17; subsequent authors; Bolton, 2003: 20, 93; Boudinot, 2015: 51; Perkovsky, 2016: 114.

[Note: the early family-group name Formicites Lepeletier de Saint-Fargeau, 1835: 197, is not cognate with the formicine collective genus-group name *Formicites* Dlussky, 1981: 75.]

**Tribes of Formicinae:** Camponotini, Formicini, Gesomyrmecini, Gigantiopini, Lasiini, Melophorini, Myrmelachistini, Myrmoteratini, Oecophyllini, Plagiolepidini, Santschiellini.

**Genera incertae sedis in Formicinae:** \**Camponotites*, \**Curtipalpus*, \**Drymomyrmex*, \**Eoleptocerites*, \**Eurytarsites*, \**Fonsecahymen*, \**Fushuniformica*, \**Heeridris*, \**Huaxiaformica*, \**Imhoffia*, \**Kyromyrma*, \**Leptogasteritus*, \**Leucotaphus*, \**Liaoformica*, \**Longiformica*, \**Magnogasterites*, \**Orbicapitia*, \**Ovalicapito*, \**Ovaligastrula*, \**Protrechina*, \**Siniformica*, \**Sinotenuicapito*, \**Wilsonia*.

**Formicinae references, world:** Mayr, 1862: 651 (genera key); Mayr, 1865: 6 (diagnosis); Handlirsch, 1907: 859 (\*fossil taxa catalogue); Dalla Torre, 1893: 171 (catalogue); Emery, 1895j: 772 (synoptic classification); Emery, 1896e: 187 (genera key); Wheeler, W.M. 1910g: 143

(diagnosis); Forel, 1912i: 88 (tribes key); Forel, 1917: 248 (synoptic classification); Arnold, 1920a: 551 (diagnosis); Forel, 1921c: 139 (diagnosis); Wheeler, W.M. 1922a: 210, 691 (diagnosis, tribes key); Emery, 1925b: 2 (diagnosis, tribe key, catalogue); Brown & Nutting, 1950: 127 (venation, phylogeny); Eisner, 1957: 465 (proventriculus morphology); Hung & Brown, 1966: 198 (gastric apex, structure); Bernard, 1967: 267 (diagnosis); Gotwald, 1969: 120 (mouthparts morphology); Wheeler, G.C. & Wheeler, J. 1972a: 41 (diagnosis); Brown, 1973b: 169 (genera, distribution); Wheeler, G.C. & Wheeler, J. 1976b: 62 (larvae, review and synthesis); Snelling, R.R. 1981: 402 (synoptic classification); Taylor & Brown, 1985: 107 (Australia catalogue); Wheeler, G.C. & Wheeler, J. 1985: 258 (synoptic classification); Billen, 1986: 173 (Dufour's gland); Dlussky & Fedoseeva, 1988: 77 (synoptic classification); Hölldobler & Wilson, 1990: 9 (synoptic classification, genera keys); Agosti, 1991: 295 (genus group diagnoses); Shattuck, 1992b: 201 (phylogeny); Baroni Urbani, *et al.* 1992: 317 (phylogeny); Bolton, 1994: 42 (diagnosis, synoptic classification, genera keys); Bolton, 1995a: 1039 (census); Bolton, 1995b: 11 (catalogue); Wenseleers, *et al.* 1998: 121 (cloacal gland); Dlussky & Rasnitsyn, 2002: 417 (diagnosis for impression fossils); Bolton, 2003: 20, 93 (diagnosis, synopsis); Brady, *et al.* 2006: 18173 (phylogeny); Moreau, *et al.* 2006: 102 (phylogeny); Keller, 2011: 1 (morphology, phylogeny); Blaimer, Brady, *et al.* 2015: 6 (phylogeny, reclassification, synopsis); Boudinot, 2015: 51 (male diagnosis); Ward, Blaimer & Fisher, 2016: 345 (phylogeny, reclassification, synopsis); Fisher & Bolton, 2016: 47 (diagnosis).

**Formicinae: regional and national faunas with keys:** Mayr, 1855: 299 (Austria); Mayr, 1861: 25 (Europe); Mayr, 1868b: 25 (\*Baltic Amber); André, 1874: 167 (Europe); Forel, 1874: 22 (Switzerland); Saunders, E. 1880: 203 (Britain); André, 1882a: 126 (Europe and Algeria); Provancher, 1887: 225 (Canada); Cresson, 1887: 94 (U.S.A. genera); Nasonov, 1889: 50 (Russia); Forel, 1891b: 8 (Madagascar genera); Lameere, 1892: 62 (Belgium); Forel, 1892j: 220 (India and Sri Lanka); Bingham, 1903: 308 (India, Sri Lanka and Burma); Ruzsky, 1905b: 100 (Russian Empire); Wasmann, 1906: 7 (Luxemburg); Bondroit, 1910: 481 (Belgium); Wheeler, W.M. 1910g: 560 (North America genera); Stitz, 1914: 80 (Central Europe); Gallardo, 1915: 35 (Argentina genera); Forel, 1915d: 45 (Switzerland); Donisthorpe, 1915d: 184 (Britain); Emery, 1916b: 216 (Italy); Wheeler, W.M. 1916m: 590 (U.S.A., Connecticut); Bondroit, 1918: 17 (France and Belgium); Arnold, 1920a: 552 (South Africa); Kutter, 1920b: 134 (Switzerland); Soudek, 1922: 61 (Czechoslovakia); Lomnicki, 1925a: 160 (Poland); Stärcke, 1926: 118, 146 (Netherlands); Karavaiev, 1927c: 273 (Ukraine); Donisthorpe, 1927b: 205 (Britain); Menozzi & Russo, 1930: 172 (Dominican Republic); Arnol'di, 1933b: 601 (Russia); Menozzi, 1933b: 90 (Israel genera); Karavaiev, 1936: 173 (Ukraine); Smith, M.R. 1937: 865 (Puerto Rico); Stitz, 1939: 230 (Germany); Kratochvíl, 1941: 97 (Central Europe); Novák & Sadil, 1941: 97 (Central Europe); Cole, 1942: 373 (U.S.A., Utah); Smith, M.R. 1943f: 309 (U.S.A., males); Buren, 1944a: 292 (U.S.A., Iowa); Holgersen, 1943b: 173 (Norway); Holgersen, 1944: 199 (Norway); Smith, M.R. 1947f: 599 (U.S.A. genera); van Boven, 1947: 181 (Belgium); Creighton, 1950a: 355 (Nearctic); Kusnezov, 1956: 31 (Argentina); Brown, 1958h: 42 (New Zealand); van Boven, 1959: 11 (Netherlands); Gregg, 1963: 447 (U.S.A., Colorado); Wheeler, G.C. & Wheeler, J. 1963: 160 (U.S.A., North Dakota); Collingwood, 1964: 104 (Britain); Bernard, 1967: 268 (Western Europe); Wilson & Taylor, 1967: 17 (Polynesia); van Boven, 1970b: 26 (Netherlands); Kempf, 1972a: 266 (Neotropical, synoptic classification); Bolton, 1973a: 329 (West Africa genera); Bolton & Collingwood, 1975: 3 (Britain); Snelling & Hunt, 1976: 104 (Chile); Tarbinsky, 1976: 126 (Kyrghyzstan); van Boven, 1977: 126 (Belgium); Kutter, 1977c: 183 (Switzerland); Arnol'di & Dlussky, 1978: 548 (former European U.S.S.R.); Collingwood, 1978: 88 (Iberian Peninsula); Collingwood, 1979: 85 (Fennoscandia and Denmark); Greenslade, 1979: 32 (South Australia genera); Schembri & Collingwood, 1981: 436 (Malta); Prins, 1983: 8 (Southern Africa genera); Allred, 1982: 444 (U.S.A., Utah); Verhaeghe, Deligne, *et al.*, 1984: 106 (Belgium genera); Baroni Urbani, 1984: 81 (Neotropical genera); Gösswald, 1985: 263 (Germany); Collingwood, 1985: 273 (Saudi Arabia); Wheeler, G.C. &

Wheeler, J. 1986g: 58 (U.S.A., Nevada); Nilsson & Douwes, 1987: 68 (Norway); Agosti & Collingwood, 1987b: 279 (Balkans); Dlussky, *et al.* 1990: 124 (Turkmenistan); Kupyanskaya, 1990: 162 (Far Eastern Russia); Morisita, *et al.*, 1991: 10 (Japan); Atanasov & Dlussky, 1992: 49 (Bulgaria); Shattuck, 1992b: 199 (higher classification, phylogeny); Lattke, in Jaffe, 1993: 150 (Neotropical genera); Arakelian, 1994: 76 (Armenia); Wu, J. & Wang, 1995: 125 (China genera); Kupyanskaya, 1995: 332 (Far Eastern Russia); Collingwood & Agosti, 1996: 361 (Saudi Arabia); Seifert, 1996b: 166 (Central Europe); Skinner & Allen, 1996: 41 (Britain); Collingwood & Prince, 1998: 21 (Portugal); Shattuck, 1999: 25, 86 (Australia genera, synopsis); Andersen, 2000: 68 (northern Australia genera); Zhou, 2001b: 165 (China, Guangxi); Czechowski, *et al.* 2002: 147 (Poland); Aktaş & Radchenko, 2002: 54 (Turkey genera); Yoshimura & Onoyama, 2002: 425 (Japan genera, males); Mackay & Mackay, 2002: 236 (U.S.A., New Mexico); Palacio & Fernández, in Fernández, 2003d: 242 (Neotropical genera); Radchenko, 2005b: 187 (North Korea); Coovert, 2005: 113 (U.S.A., Ohio); Clouse, 2007b: 190 (Micronesia); Seifert, 2007: 150 (North and Central Europe); Terayama, 2009: 202 (Taiwan); Heterick, 2009: 30 (south-western Australia genera); Boer, 2010: 17 (Benelux); Czechowski, *et al.* 2012: 351 (Poland); General & Alpert, 2012: 71 (Philippines genera key); Dlussky & Perfilieva, 2014: 433 (British Eocene species key); Baccaro, *et al.* 2015: 77, 176 (Brazil genera key, text); Radchenko, 2016: 266 (Ukraine); Fernández & Ortiz-Sepúlveda, 2019: 721 (Colombia).

### **FORMICINI** [tribe of Formicinae]

**Formicariae** Latreille, 1802a: 352 [as family-group name]. Type-genus: *Formica* Linnaeus, 1758: 579.

#### **Taxonomic history**

Formicini as tribe of Camponotidae: Forel, 1891b: 79 [Formicini].

Formicini as tribe of Camponotinae: Forel, 1891b: 79 [Formicini]; Forel, 1893a: 165 [Formicini]; Forel, 1893g: 337 [Formicini]; Emery, 1895j: 772 [Formicini]; Forel, 1895b: 105 [Formicini]; Forel, 1899c: 125 [Formicini]; Forel, 1901b: 25 [Formicini]; Ruzsky, 1902d: 8 [Formicini]; Ruzsky, 1905b: 110 [Formicini]; Forel, 1908e: 62 [Formicini]; Wheeler, W.M. 1910g: 143 [Formicini]; Wheeler, W.M. 1915h: 120; Emery, 1916b: 252; Forel, 1917: 249 [Formicini].

Formicini as tribe of Formicinae: Ashmead, 1905b: 384 [Formicini]; Bondroit, 1918: 36; Wheeler, W.M. 1922a: 698; Emery, 1925b: 240; Chapman & Capco, 1951: 197; Smith, D.R. 1979: 1448; Dlussky & Fedoseeva, 1988: 77; Hölldobler & Wilson, 1990: 18; Bolton, 1995b: 12; Bolton, 2003: 27, 126; Blaimer, Brady, *et al.* 2015: 6; Ward, Blaimer & Fisher, 2016: 346.

**Genera of Formicini:** *Alloformica*, *Bajcaridris*, *Cataglyphis*, \**Cataglyphoides*, \**Conoformica*, *Formica*, *Iberoformica*, *Polyergus*, *Proformica*, \**Protoformica*, *Rossomyrmex*.

**Formicini references:** Forel, 1893a: 165 (synoptic classification); Emery, 1895j: 772 (synoptic classification); Forel, 1917: 249 (synoptic classification); Wheeler, W.M. 1922a: 698 (genera key); Emery, 1925b: 240 (diagnosis, genera key, catalogue); Wheeler, G.C. & Wheeler, J. 1970: 652 (larva diagnosis); Wheeler, G.C. & Wheeler, J. 1976b: 62 (larvae, review and synthesis); Dlussky & Fedoseeva, 1988: 77 (synoptic classification); Hölldobler & Wilson, 1990: 18 (synoptic classification); Agosti, 1990a: 295 (review of tribe, diagnosis); Agosti, 1991: 295 (*Formica* genus group diagnosis); Agosti, 1994a: 95 (diagnosis, revision of genera, phylogeny, key); Bolton, 1994: 50 (synoptic classification); Bolton, 1995a: 1039 (census); Bolton, 1995b: 12 (catalogue); Bolton, 2003: 27, 126 (diagnosis, synopsis); Dlussky, 2008a: 57 (Europe Eocene amber species key); Ward, Blaimer & Fisher, 2016: 346 (synopsis).

### FORMICOXENINI [junior synonym of Crematogastrini]

**Formicoxenii** Forel, 1893a: 164. Type-genus: *Formicoxenus* Mayr, 1855: 413.

#### **Taxonomic history**

Formicoxenini as junior synonym of Myrmicini: Emery, 1895c: 271 (footnote).

Formicoxenini as tribe of Myrmicinae: Forel, 1893a: 164 [Formicoxenii]; Bolton, 1994: 105 [Formicoxenini]; Bolton, 1995b: 12; Bolton, 2003: 68, 243.

Formicoxenini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

**Formicoxenini references:** Emery, 1914a: 42 (Leptothoracini, synoptic classification); Forel, 1917: 244 (synoptic classification); Emery, 1922e: 119 (Stereomyrmicini diagnosis, catalogue); Emery, 1922e: 123 (Cardiocondyliini diagnosis, catalogue); Wheeler, W.M. 1922a: 664, 670 (Ochetomyrmicini, Leptothoracini genera keys); Wheeler, W.M. 1922a: 827, 885, 886, 889 (Afrotropical Cardiocondyliini, Leptothoracini catalogues); Wheeler, W.M. 1922a: 1021, 1029 (Malagasy Cardiocondyliini, Leptothoracini catalogues); Emery, 1924d: 236 (Podomyrmini diagnosis, catalogue); Emery, 1924d: 244 (Leptothoracini diagnosis, genera key, catalogue); Wheeler, G.C. & Wheeler, J. 1976b: 54, 57 (Cardiocondyliini, Leptothoracini larvae, review and synthesis); Kugler, C. 1978a: 440 (sting structure); Buschinger, 1981: 211 (socially parasitic taxa, relationships); Dlussky & Fedoseeva, 1988: 79 (synoptic classification); Hölldobler & Wilson, 1990: 16 (synoptic classification); Brandão, 1991: 391 (Neotropical fauna, synoptic classification); Bolton, 1994: 105 (synoptic classification); Bolton, 1995a: 1041 (census); Bolton, 1995b: 12 (catalogue); Buschinger, 1997: 1 (Western Europe, socially parasitic species, review); Fernández, 2003d: 317 (Neotropical genera); Bolton, 2003: 68, 243 (diagnosis, synopsis).

### **GESOMYRMECINI** [tribe of Formicinae]

**Gesomyrmicinae** Ashmead, 1905b: 384. Type-genus: *Gesomyrmex* Mayr, 1868b: 50.

#### **Taxonomic history**

Gesomyrmecini as subfamily of Formicidae: Ashmead, 1905b: 384 [Gesomyrmicinae].

Gesomyrmecini as tribe of Gesomyrmecinae: Ashmead, 1905b: 384 [Gesomyrmicini].

Gesomyrmecini as tribe of Camponotinae: Forel, 1917: 249 [Gesomyrmicini].

Gesomyrmecini as tribe of Formicinae: Wheeler, W.M. 1922a: 697 [Gesomyrmicini]; Wheeler, W.M. 1929a: 12 (in text); Chapman & Capco, 1951: 208 [Gesomyrmicini]; Wheeler, G.C. & Wheeler, J. 1976b: 62; Wheeler, G.C. & Wheeler, J. 1985: 258 [Gesomyrmecini]; Dlussky & Fedoseeva, 1988: 77 [Gesomyrmini]; Hölldobler & Wilson, 1990: 17; Bolton, 1994: 50; Bolton, 1995b: 12; Bolton, 2003: 23, 107; Ward, Blaimer & Fisher, 2016: 347.

Gesomyrmecini as junior synonym of Dimorphomyrmecini: Emery, 1925b: 39; Engel & Grimaldi, 2005: 4

[Note: Emery, and Engel & Grimaldi, give Dimorphomyrmecini as senior synonym, but Gesomyrmecini retains priority over Dimorphomyrmecini under Article 40.2 of the International Code of Zoological Nomenclature (4th Edition), 1999: 46.]

Gesomyrmecini as senior synonym of Dimorphomyrmecini: Wheeler, W.M. 1929a: 12; subsequent authors; Bolton, 1995b: 12; Bolton, 2003: 23, 108; Ward, Blaimer & Fisher, 2016: 347.

Gesomyrmecini as senior synonym of Gesomyrmini Forel: Bolton, 1994: 50; Bolton, 1995b: 12; Bolton, 2003: 108; Ward, Blaimer & Fisher, 2016: 347.

Gesomyrmecini as senior synonym of \*Sicelomyrmecini: Bolton, 2003: 23, 107; Ward, Blaimer & Fisher, 2016: 347.

**Genera of Gesomyrmecini:** *Gesomyrmex*, \**Prodimorphomyrmex*, \**Sicelomyrmex*.

[**GESOMYRMINI**: incorrect subsequent spelling by Dlussky & Fedoseeva, 1988: 77.]

**GESOMYRMECINI** [junior homonym and junior synonym of the above (described as new independently of Ashmead, 1905b: 384)]

**Gesomyrmini** Forel, 1912i: 89 (diagnosis in key). Type-genus: *Gesomyrmex* Mayr, 1868b: 50.

#### **Taxonomic history**

Gesomyrmecini as tribe of Camponotinae: Forel, 1912i: 89 [Gesomyrmini]; Wheeler, W.M. 1915h: 107; Forel, 1917: 249 [Gesomyrmicini]; Wheeler, W.M. 1922a: 693 [Gesomyrmicini].

Gesomyrmecini as tribe of Formicinae: Chapman & Capco, 1951: 208 [Gesomyrmicini]; Dlussky & Fedoseeva, 1988: 77 [Gesomyrmini].

Gesomyrmecini Forel as junior synonym of Gesomyrmecini Ashmead: Bolton, 1994: 50; Bolton, 1995b: 12; Bolton, 2003: 23, 108.

[**GESOMYRMINI**: incorrect initial spelling by Forel, 1912i: 89.]

**GIGANTIOPINI** [tribe of Formicinae]

**Gigantiopini** Ashmead, 1905b: 384. Type-genus: *Gigantiops* Roger, 1863b: 11.

**Taxonomic history**

Gigantiopini as tribe of Gesomyrmecinae: Ashmead, 1905b: 384.

Gigantiopini as tribe of Formicinae: Wheeler, W.M. 1922a: 700; Emery, 1925b: 48; Kempf, 1972a: 266; Dlussky & Fedoseeva, 1988: 77; Hölldobler & Wilson, 1990: 18; Brandão, 1991: 393; Bolton, 1995b: 12; Bolton, 2003: 25, 111; Ward, Blaimer & Fisher, 2016: 347; Fernández & Ortiz-Sepúlveda, 2019: 734.

**Genus of Gigantiopini:** *Gigantiops*.

**\*HAIDOMYRMECINAE** [subfamily of Formicidae]

**\*Haidomyrmecini** Bolton, 2003: 74, 261. Type-genus: *\*Haidomyrmex* Dlussky, 1996: 84.

**Taxonomic history**

**\*Haidomyrmecini** as tribe of **\*Sphecomyrminae**: Bolton, 2003: 74, 261; Perrichot, *et al.* 2008: 92; McKellar, *et al.* 2013b: 457; Barden, 2017: 2; Borysenko, 2017: 17; Cao, Perrichot, *et al.* 2020: 2.

**\*Haidomyrmecinae** as subfamily of Formicidae: Perrichot, Wang & Barden, 2020: 3.

**Genera of \*Haidomyrmecinae:** *\*Aquilomyrmex*, *\*Ceratomyrmex*, *\*Chonidris*, *\*Dhagnathos*, *\*Haidomyrmex*, *\*Haidomyrmodes*, *\*Haidoterminus*, *\*Linguamyrmex*, *\*Protoceratomyrmex*.

**\*Haidomyrmecinae references:** McKellar, *et al.* 2013b: 457 (**genera and all species key**); Perrichot, Wang & Engel, 2016: in supplemental information (not paginated) (**genera and all species key**); Barden, 2017: 2 (checklist); Barden, *et al.* 2017: 838 (synopsis of species); Borysenko, 2017: 19 (diagnosis); Perrichot, Wang & Barden, 2020: 3, 16 (diagnosis, **genera and all species key**).

**HARPEGNATHINI** [junior synonym of Ponerini]

**Harpegnathii** Forel, 1900c: 63. Type-genus: *Harpegnathos* Jerdon, 1851: 116.

**Taxonomic history**

Harpegnathini as tribe of Ponerinae: Forel, 1900c: 63 [Harpegnathii].

Harpegnathini as subtribe of Ponerini: Emery, 1911d: 58 [Harpegnathini]; Forel, 1917: 237 [Harpegnathini].

Harpegnathini as junior synonym of Ponerini: Bolton, 1994: 164; Bolton, 1995b: 12; Bolton, 2003: 43, 158; Schmidt, C.A. & Shattuck, 2014: 52.

**HETEROFORMICINAE** [unavailable name]

Heteroformicinae Emery, 1925b: 35 [as "section" of Formicinae]. Unavailable name; not based on genus rank taxon.

[Note: section designated to include tribes Myrmecorhynchini and Myrmoteratini. Contained material referable to Formicinae (Bolton, 1994: 51, Bolton, 1995b: 12, Bolton, 2003: 265).]

**HETEROGYNA** [unavailable name]

Heterogynes Latreille, 1817e: 455 [as family-group name (Heterogynes)]. Unavailable name; not based on a genus rank taxon.

[Note (i): the family-group name was initially designated by Latreille to include the tribes Formicaries (Formicidae) and Mutillaires (Mutillidae). Other authors of the 19<sup>th</sup> and early 20<sup>th</sup> centuries used this unavailable name in a variety of forms: Stephens, 1829: 356 (Aculeata subsectio Heterogyna); Perty, 1833: 134 (Family Heterogyna); Lepeletier de

Saint-Fargeau, 1835: 97 (Family Heterogynides); Haliday, 1836: 331 (as superfamily name, Hymenoptera stirps Heterogyna, to include the families Mutillidae, Dorylidae, Formicidae); Shuckard, 1840a: 188 (Hymenoptera Heterogyna); Le Guillou, 1842: 313 (as family-group name, Heterogynes); Smith, F. 1851: 1 (Aculeata tribe Heterogyna); Smith, F. 1855a: 95 (Heterogyna, Formicidae); Smith, F. 1858b: 1 (Aculeata tribe Heterogyna); Smith, F. 1859b: 1 (Aculeata tribe Heterogyna); Smith, F. 1871b: viii (Heterogyna as superfamily, to include Formicidae, Poneridae, Myricidae, Mutillidae); Saunders, E. 1880: 202 (Heterogyna (= Formicidae + Myrmecidae + Poneridae)); White, W.F. 1884: 246 (Aculeata division Heterogyna); Dalla Torre, 1893: title page (Formicidae (Heterogyna)); Saunders, E. 1896: 16 (Heterogyna (= Formicidae)); Forel, 1899a: 116 (Heterogyna (Formicidae)); Forel, 1899c: 1 (Aculeata section Heterogyna); Bingham, 1903: 1 (tribe Heterogyna, family Formicidae); Wheeler, W.M. 1910g: 134 (Formicidae (Heterogyna)).]

[Note (ii): not to be confused with Heterogynidae (type-genus *Heterogyna* Nagy, 1969), a small family of apoid wasps.]

## **HETEROPONERINAE** [subfamily of Formicidae]

**Heteroponerinae** Bolton, 2003: 46, 176. Type-genus: *Heteroponera* Mayr, 1887: 532.

### **Taxonomic history**

Heteroponerinae as subfamily of Formicidae: Bolton, 2003: 46, 176; Brady, *et al.* 2006: 18173; Moreau, *et al.* 2006: 102; Ouellette, *et al.* 2006: 365; Ward, 2007a: 556.

Heteroponerini as tribe of Ectatomminae: Feitosa & Prada-Achiardi, 2019: 673 [provisional].

[Note: **Heteroponerini** Jaffe, 1993: 8 (as tribe of Ponerinae), and **Heteroponerini** Fernández, *et al.* 1996: 362 (as tribe of Ponerinae). Unavailable names; in both cases tribe proposed without diagnosis.]

**Genera of Heteroponerinae:** *Acanthoponera*, *Heteroponera*.

**Genus incertae sedis in Heteroponerinae:** *Aulacopone*

**Heteroponerinae references:** Bolton, 2003: 46, 176 (diagnosis, synopsis); Ouellette, *et al.* 2006: 359 (phylogeny); Moreau, *et al.* 2006: 102 (phylogeny); Brady, *et al.* 2006: 18173 (phylogeny); Ward, 2007a: 556 (classification); Fernández & Arias-Penna, 2008: 31 (Neotropical genera key); Keller, 2011: 1 (morphology, phylogeny); Baccaro, *et al.* 2015: 81, 192 (Brazil genera key, text); Feitosa, 2015a, in Delabie, Feitosa, *et al.* 2015: 33 (phylogeny, taxonomy); Feitosa & Prada-Achiardi, 2019: 673 (Colombia).

## **HYPOCLINEIDAE** [*nomen oblitum*, synonym of Dolichoderini]

**Hypoclineidae** Emery, 1877a: 78 (in text). Type-genus: *Hypoclinea* Mayr, 1855: 377 (junior synonym of *Dolichoderus* Lund, 1831a: 130.) [*Nomen oblitum*].

### **Taxonomic history**

Material of the *nomen oblitum* Hypoclineidae is referable to Dolichoderini.

\*HYPOPOMYRMECITI [junior synonym of Crematogastrini]

\***Hypopomyrmeciti** Brown, 1952g: 10 (footnote). Type-genus: \**Hypopomyrmex* Emery, 1891a: 148.

### **Taxonomic history**

\*Hypopomyrmeciti as subtribe of Dacetini: Brown, 1952g: 10 (footnote).

\*Hypopomyrmeciti as junior synonym of Pheidologetini: Brown & Carpenter, 1979: 422 [by implication as type-genus transferred to Pheidologetini]; Bolton, 1995b: 12.

\*Hypopomyrmeciti as junior synonym of Solenopsidini: Bolton, 2003: 59, 207.

\*Hypopomyrmeciti as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

## **IRIDOMYRMECINA** [junior synonym of Leptomyrmecini]

**Iridomyrmecina** Dubovikoff, 2005a: 92. Type-genus: *Iridomyrmex* Mayr, 1862: 653.

### **Taxonomic history**

Iridomyrmecina as subtribe of Iridomyrmecini: Dubovikoff, 2005a: 92.

Iridomyrmecina as junior synonym of Leptomyrmecini: Ward, *et al.* 2010: 361 [by implication as type-genus included in Leptomyrmecini].

IRIDOMYRMECINI [junior synonym of Leptomyrmecini]

**Iridomyrmecini** Dubovikoff, 2005a: 91. Type-genus: *Iridomyrmex* Mayr, 1862: 653.

**Taxonomic history**

Iridomyrmecini as tribe of Dolichoderinae: Dubovikoff, 2005a: 91.

Iridomyrmecini as junior synonym of Leptomyrmecini: Ward, *et al.* 2010: 361 [by implication as type-genus included in Leptomyrmecini].

**LASIINI** [tribe of Formicinae]

**Lasiini** Ashmead, 1905b: 384. Type-genus: *Lasius* Fabricius, 1804: 415.

**Taxonomic history**

Lasiini as junior synonym of Formicini: Wheeler, W.M. 1922a: 698; Wheeler, G.C. & Wheeler, J. 1970: 651; Wheeler, G.C. & Wheeler, J. 1985: 258; Hölldobler & Wilson, 1990: 18.

Lasiini as tribe of Formicinae: Ashmead, 1905b: 384; Emery, 1925b: 212; Karavaiev, 1936: 192; Kempf, 1972a: 266; Smith, D.R. 1979: 1435; Dlussky & Fedoseeva, 1988: 77; Hölldobler & Wilson, 1990: 18; Brandão, 1991: 393; Jaffe 1993: 12; Bolton, 1994: 50; Bolton, 1995b: 12; Bolton, 2003: 21, 94; Ward, Blaimer & Fisher, 2016: 347.

Lasiini as senior synonym of Acanthomyopsini: Bolton, 1994: 50; Bolton, 1995b: 12; Bolton, 2003: 21, 94; Ward, Blaimer & Fisher, 2016: 347.

Lasiini as senior synonym of Prenolepidini: Emery, 1925b: 212; Bolton, 1994: 50; Bolton, 1995b: 12; Blaimer, Brady, *et al.* 2015: 6 [by implication]; Ward, Blaimer & Fisher, 2016: 347.

**Genera of Lasiini:** *Cladomyrma*, *Euprenolepis*, \**Glaphyromyrmex*, *Lasius*, *Myrmecocystus*, *Nylanderia*, *Paraparatrechina*, *Paratrechina*, *Prenolepis*, *Pseudolasius*, *Zatania*.

**Lasiini references:** Wheeler, W.M. 1922a: 940, 1037 (Afrotropical, Malagasy catalogues); Emery, 1925b: 212 (diagnosis, genera key, catalogue); Hölldobler & Wilson, 1990: 18 (synoptic classification); Brandão, 1991: 393 (Neotropical synoptic classification); Bolton, 1994: 50 (synoptic classification); Bolton, 1995a: 1039 (census); Bolton, 1995b: 12 (catalogue); Bolton, 2003: 21, 94 (diagnosis, synopsis); Blaimer, Brady, *et al.* 2015: 6 (phylogeny, reclassification, synopsis); Ward, Blaimer & Fisher, 2016: 347 (phylogeny, reclassification, synopsis); Fernández & Ortiz-Sepúlveda, 2019: 735 (Colombia fauna).

LENOMYRMECINI [junior synonym of Attini]

**Lenomyrmecini** Bolton, 2003: 64, 236. Type-genus: *Lenomyrmex* Fernández & Palacio, 1999: 8.

**Taxonomic history**

Lenomyrmecini as tribe of Myrmicinae: Bolton, 2003: 64, 236.

Lenomyrmecini as junior synonym of Attini: Ward, *et al.* 2015: 77.

LEPTALEINAE [junior synonym of Pseudomyrmecinae]

**Leptaleinae** Smith, M.R. 1951a: 788. Type-genus: *Leptalea* Erichson, 1839: 309 (junior synonym of *Pseudomyrmex* Lund, 1831b: 106).

**Taxonomic history**

Leptaleinae as subfamily of Formicidae: Smith, M.R. 1951a: 788.

Leptaleinae as junior synonym of Pseudomyrmecinae: Smith, M.R. 1958c: 112; Bolton, 1995b: 12; Bolton, 2003: 31, 134.

[Note: Pseudomyrmecinae retains priority over Leptaleinae under Article 40.2 of the International Code of Zoological Nomenclature (4th Edition), 1999: 46.]

**LEPTANILLINAE** [subfamily of Formicidae]

**Leptanillini** Emery, 1910b: 32. Type-genus: *Leptanilla* Emery, 1870: 196.

**Taxonomic history**

Leptanillinae as family: Bernard, 1951: 1053 [Leptanillidae].

Leptanillinae as subfamily of Formicidae: Wheeler, W.M. 1923f: 335; Wheeler, G.C. 1928: 89 (in text); Wheeler, G.C. & Wheeler, E.W. 1930: 199; Chapman & Capco, 1951: 17; Clark, 1951: 16; Brown, 1954e: 28; Petersen, 1968: 577; Wheeler, G.C. & Wheeler, J. 1972a: 37; Brown, 1973b: 166; Baroni Urbani, 1977c: 430; Dlussky & Fedoseeva, 1988: 79; Hölldobler & Wilson, 1990: 12; Bolton, 1995b: 12; Bolton, 2003: 39, 151; Ward, 2007a: 555; Boudinot, 2015: 29.

**Tribes of Leptanillinae:** Anomalomyrmini, Leptanillini.

**Genus *incertae sedis* in Leptanillinae:** *Opamyрма*.

**Leptanillinae references:** Emery, 1904a: 107 (anatomy, affinities); Wheeler, W.M. 1910g: 138 (diagnosis); Wheeler, G.C. 1928: 85 (larva); Wheeler, G.C. & Wheeler, E.W. 1930: 199 (diagnosis); Morley, 1939: 114 (phylogeny); Kutter, 1948: 293 (diagnosis); Brown, 1954e: 28 (phylogeny); Bernard, 1967: 90 (diagnosis); Petersen, 1968: 577 (tribe, males); Gotwald, 1969: 97 (mouthparts morphology); Wheeler, G.C. & Wheeler, J. 1972a: 37 (diagnosis); Brown, 1973b: 166 (genera, distribution); Wheeler, G.C. & Wheeler, J. 1976b: 46 (larvae, review and synthesis); Baroni Urbani, 1977c: 430 (diagnosis, **all species revision**); Snelling, R.R. 1981: 392 (synoptic classification); Taylor & Brown, 1985: 53 (Australia catalogue); Wheeler, G.C. & Wheeler, J. 1985: 257 (synoptic classification); Dlussky & Fedoseeva, 1988: 79 (synoptic classification); Hölldobler & Wilson, 1990: 9 onward (synoptic classification, genera keys); Bolton, 1990b: 269 (diagnosis, revision of tribes, synoptic classification, key); Kugler, C. 1992: 103 (sting structure); Baroni Urbani, *et al.* 1992: 316, 317 (phylogeny); Bolton, 1994: 69 (diagnosis, synoptic classification, genera key); Bolton, 1995a: 1040 (census); Bolton, 1995b: 9, 12 (catalogue); Ogata, *et al.* 1995: 32 (genera, classification); Shattuck, 1999: 117 (Australia, synopsis); Bolton, 2003: 39, 151 (diagnosis, synopsis); Ouellette, *et al.* 2006: 359 (phylogeny); Terayama, 2009: 125 (Taiwan genera key); Borowiec, *et al.* 2011: 13 (genera key); Keller, 2011: 1 (morphology, phylogeny); General & Alpert, 2012: 73 (Philippines genera key); Xu, 2012c: 479 (genera key); Eguchi, *et al.* 2014: 3 (Vietnam genera key); Boudinot, 2015: 29 (males diagnosis); Fisher & Bolton, 2016: 49 (diagnosis).

**LEPTANILLINI** [tribe of Leptanillinae]

**Leptanillini** Emery, 1910b: 32. Type-genus: *Leptanilla* Emery, 1870: 196.

**Taxonomic history**

Leptanillini as tribe of Dorylinae: Emery, 1910b: 32; Wheeler, W.M. 1910g: 138 [Leptanillii]; Arnold, 1915: 113; Emery, 1916b: 94 [Leptanillini]; Forel, 1917: 240 [Leptanillini]; Bondroit, 1918: 16; Wheeler, W.M. 1922a: 633.

Leptanillini as tribe of Leptanillinae: Wheeler, W.M. 1923f: 335; Chapman & Capco, 1951: 17; Bolton, 1990b: 276; Hölldobler & Wilson, 1990: 12; Bolton, 1994: 70; Bolton, 1995b: 12; Bolton, 2003: 40, 152.

**Genera of Leptanillini:** *Leptanilla*, *Noonilla*, *Phaulomyрма*, *Scyphodon*, *Yavnella*.

**LEPTANILLOIDINAE** [junior synonym of Dorylinae]

**Leptanilloidinae** Bolton, in Baroni Urbani, *et al.* 1992: 317. Type-genus: *Leptanilloides* Mann, 1923: 13.

**Taxonomic history**

Leptanilloidinae as subfamily of Formicidae: Bolton, in Baroni Urbani, *et al.* 1992: 317; Bolton, 1994: 71; Bolton, 1995b: 12; Brandão, *et al.* 1999: 17; Bolton, 2003: 35, 145; Brady & Ward, 2005: 593; Brady, *et al.* 2006: 18173; Moreau, *et al.* 2006: 102; Ward, 2007a: 555.

Leptanilloidinae as junior synonym of Dorylinae: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

**Leptanilloidinae references:** Baroni Urbani, *et al.* 1992: 317 (phylogeny); Bolton, 1994: 71 (diagnosis, synoptic classification); Bolton, 1995a: 1040 (census); Bolton, 1995b: 12 (catalogue);

Brandão, *et al.* 1999: 17 (diagnosis, genera revision, phylogeny, keys); Bolton, 2003: 35, 145 (diagnosis, synopsis); Brady & Ward, 2005: 593 (phylogeny); Moreau, *et al.* 2006: 102 (phylogeny); Brady, *et al.* 2006: 18173 (phylogeny); Ward, 2007a: 555 (classification); Keller, 2011: 1 (morphology, phylogeny).

LEPTOGENYINI [junior synonym of Ponerini]

**Leptogenysii** Forel, 1893a: 162. Type-genus: *Leptogenys* Roger, 1861a: 41.

**Taxonomic history**

Leptogenyini as tribe of Ponerinae: Forel, 1893a: 162 [Leptogenysii]; Emery, 1895j: 761 [Leptogenyi]; Forel, 1895b: 117 [Leptogenysii]; Forel, 1899c: 17 [Leptogenyi]; Emery, 1901a: 36 [Leptogenyi]; Ashmead, 1905b: 382 [Leptogenyini]; Emery, 1911d: 97 [Leptogenyini]; Santschi, 1914b: 55 [Leptogenyini]; Arnold, 1915: 88 [Leptogenyini]; Forel, 1917: 238 [Leptogenyini]; Gallardo, 1918b: 6 [Leptogenyini]; Wheeler, W.M. 1922a: 652 [Leptogenyini]; Arnold, 1926: 209 [Leptogenyini]; Chapman & Capco, 1951: 31; Bernard, 1953b: 210 [Leptogenyini]; Kusnezov, 1964: 53 [Leptogenyini]; Dlussky & Fedoseeva, 1988: 78 [Leptogenyini].

Leptogenyini as junior synonym of Ponerini: Emery, 1895c: 262 (footnote); Brown, 1963: 3; Bolton, 1994: 164; Bolton, 1995b: 12; Bolton, 2003: 43, 158; Schmidt, C.A. & Shattuck, 2014: 52.

**LEPTOMYRMECINI** [tribe of Dolichoderinae]

**Leptomyrmecini** Emery, 1913a: 15. Type-genus: *Leptomyrmex* Mayr, 1862: 652.

**Taxonomic history**

Leptomyrmecini as junior synonym of Dolichoderinae: Shattuck, 1992c: 5; Bolton, 1994: 26; Bolton, 1995b: 12; Bolton, 2003: 19, 81.

Leptomyrmecini as tribe of Dolichoderinae: Emery, 1913a: 15 [Leptomyrmecini]; Wheeler, W.M. 1915d: 262 [Leptomyrmecii]; Forel, 1917: 247; Wheeler, W.M. 1922a: 688 [Leptomyrmecini]; Chapman & Capco, 1951: 186 [Leptomyrmecini]; Wheeler, G.C. & Wheeler, J. 1985: 258 [Leptomyrmecini]; Dlussky & Fedoseeva, 1988: 78; Hölldobler & Wilson, 1990: 17; Brandão, 1991: 393; Ward, *et al.* 2010: 361.

Leptomyrmecini as senior synonym of Anonychomyrmini: Ward, *et al.* 2010: 361 [by implication as type-genus included in Leptomyrmecini].

Leptomyrmecini as senior synonym of Iridomyrmecini and Iridomyrmecina: Ward, *et al.* 2010: 361 [by implication as type-genus included in Leptomyrmecini].

**Genera of Leptomyrmecini:** *Anillidris*, *Anonychomyrma*, *Azteca*, \**Chronomyrmex*, *Doleromyrma*, *Dorymyrmex*, *Forelius*, *Froggattella*, *Gracilidris*, *Iridomyrmex*, *Leptomyrmex*, \**Leptomyrmula*, *Linepithema*, *Nebothriomyrmex*, *Ochetellus*, *Papyrius*, *Philidris*, *Turneria*, \**Usomyrma*, \**Yantaromyrmex*.

LEPTOTHORACINI [junior synonym of Crematogastrini]

**Leptothoracini** Emery, 1914a: 38 (diagnosis in key). Type-genus: *Leptothorax* Mayr, 1855: 431.

**Taxonomic history**

Leptothoracini as tribe of Myrmicinae: Emery, 1914a: 38; Arnold, 1916: 257; Emery, 1916b: 172; Forel, 1917: 244; Wheeler, W.M. 1922a: 664, 670; Emery, 1924d: 244; Chapman & Capco, 1951: 110; Kempf, 1972a: 264; Smith, D.R. 1979: 1390; Dlussky & Fedoseeva, 1988: 79; Hölldobler & Wilson, 1990: 16; Brandão, 1991: 390.

Leptothoracini as junior synonym of Formicoxenini: Bolton, 1994: 105; Bolton, 1995b: 12; Bolton, 2003: 68, 243.

Leptothoracini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

LIOMETOPINI [junior synonym of Tapinomini]

**Liometopini** Dlussky & Fedoseeva, 1988: 77. Type-genus: *Liometopum* Mayr, 1861: 38.

**Taxonomic history**

Liometopini as tribe of Dolichoderinae: Dlussky & Fedoseeva, 1988: 77.

Liometopini as junior synonym of Dolichoderinae: Shattuck, 1992c: 5; Bolton, 1994: 26; Bolton, 1995b: 12; Bolton, 2003: 19, 81.

Liometopini as junior synonym of Tapinomini: Ward, *et al.* 2010: 361 [by implication as type-genus included in Tapinomini].

LIOMYRMECINI [junior synonym of Crematogastrini]

**Liomyrmecini** Bolton, 2003: 67, 241. Type-genus: *Liomyrmex* Mayr, 1865: 23.

**Taxonomic history**

Liomyrmecini as tribe of Myrmicinae: Bolton, 2003: 67, 241.

Liomyrmecini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

LIOPONERINI [junior synonym of Dorylinae]

**Lioponerini** Ashmead, 1905b: 382. Type-genus: *Lioponera* Mayr, 1879: 666.

**Taxonomic history**

Lioponerini as tribe of Pachycondylinae: Ashmead, 1905b: 382.

Lioponerini as junior synonym of Cerapachyini: Emery, 1911d: 6; Brown, 1975: 19 [by implication as type-genus included in Cerapachyini]; Bolton, 1994: 19; Bolton, 1995b: 10; Bolton, 2003: 33, 139.

Lioponerini as junior synonym of Dorylinae: Brady, *et al.* 2014: 5; Borowiec, M.L. 2016: 14.

LOPHOMYRMECINI [junior synonym of Crematogastrini]

**Lophomyrmecini** Emery, 1914a: 41. Type-genus: *Lophomyrmex* Emery, 1892a: 114.

**Taxonomic history**

Lophomyrmecini as subtribe of Pheidologetini: Emery, 1914a: 41 [Lophomyrmecini]; Forel, 1917: 243; Emery, 1924d: 208.

Lophomyrmecini as junior synonym of Pheidologetini: Bolton, 1994: 106 [Pheidologetonini].

Lophomyrmecini as junior synonym of Pheidolini: Rigato, 1994a: 51 [by implication]: Bolton, 1995b: 14; Bolton, 2003: 63, 228.

Lophomyrmecini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

**MARTIALINAE** [subfamily of Formicidae]

**Martialinae** Rabeling & Verhaagh, in Rabeling, *et al.* 2008: 14913. Type-genus: *Martialis* Rabeling & Verhaagh, in Rabeling, *et al.* 2008: 14914.

**Taxonomic history**

Martialinae as subfamily of Formicidae: Rabeling & Verhaagh, in Rabeling, *et al.* 2008: 14913; Boudinot, 2015: 33.

**Genus of Martialinae:** *Martialis*.

**Martialinae references:** Boudinot, 2015: 33 (diagnosis); Baccaro, *et al.* 2015: 198 (genus in Brazil).

MEGALOMYRMECINI [junior synonym of Solenopsidini]

**Megalomyrmecini** Dlussky & Fedoseeva: 1988: 80. Type-genus: *Megalomyrmex* Forel, 1885a: 371.

**Taxonomic history**

Megalomyrmecini as tribe of Myrmicinae: Dlussky & Fedoseeva: 1988: 80.

Megalomyrmecini as junior synonym of Solenopsidini: Bolton, 1994: 106; Bolton, 1995b: 12; Bolton, 2003: 59, 207; Ward, *et al.* 2015: 77.

MELISSOTARSINI [junior synonym of Crematogastrini]

**Melissotarsii** Emery, 1901a: 36. Type-genus: *Melissotarsus* Emery, 1877b: 378.

**Taxonomic history**

Melissotarsini as tribe of Ponerinae: Emery, 1901a: 36 [Melissotarsii].

Melissotarsini as tribe of Myrmicinae: Ashmead, 1905b: 383 [Melissotarsini]; Forel, 1911h: 446; Emery, 1914a: 35 [Melissotarsini]; Santschi, 1914b: 71 [Melissotarsii]; Arnold, 1916: 188; Forel, 1917: 242; Emery 1922e: 118; Wheeler, W.M. 1922a: 661; Chapman & Capco, 1951: 111; Dlussky & Fedoseeva, 1988: 79; Hölldobler & Wilson, 1990: 16; Bolton, 1995b: 12; Bolton, 2003: 72, 257.

Melissotarsini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

**Melissotarsini references:** Emery, 1914a: 35, 40 (diagnosis (in key), synoptic classification); Forel, 1917: 242 (synoptic classification); Wheeler, W.M. 1922a: 661 (genera key); Wheeler, W.M. 1922a: 823, 1021 (Afrotropical, Malagasy catalogues); Wheeler, G.C. & Wheeler, J. 1976b: 53 (larvae, review and synthesis); Dlussky & Fedoseeva, 1988: 79 (synoptic classification); Hölldobler & Wilson, 1990: 16 (synoptic classification); Bolton, 1994: 105 (synoptic classification); Bolton, 1995a: 1041 (census); Bolton, 1995b: 12 (catalogue); Bolton, 2003: 72, 257 (diagnosis, synopsis).

**MELOPHORINI** [tribe of Formicinae]

**Melophorini** Forel, 1912i: 88 (diagnosis in key). Type-genus: *Melophorus* Lubbock, 1883: 51.

**Taxonomic history**

Melophorini as tribe of Camponotinae: Forel, 1912i: 88; Forel, 1917: 248.

Melophorini as tribe of Formicinae: Wheeler, W.M. 1922a: 694; Emery, 1925b: 10; Wheeler, W.M. 1935c: 69; Kempf, 1972a: 266; subsequent authors; Dlussky & Fedoseeva, 1988: 77; Hölldobler & Wilson, 1990: 17; Brandão, 1991: 392; Bolton, 1995b: 12; Bolton, 2003: 28, 130; Blaimer, Brady, *et al.* 2015: 6; Ward, Blaimer & Fisher, 2016: 347.

Melophorini as senior synonym of Myrmecorhynchini: Wheeler, W.M. 1935c: 69 (in text); Brown, 1955d: 471; Bolton, 1994: 50; Bolton, 1995b: 13; Blaimer, Brady, *et al.* 2015: 6 [by implication]; Ward, Blaimer & Fisher, 2016: 347.

Melophorini as senior synonym of Notostigmatini: Blaimer, Brady, *et al.* 2015: 6 [by implication]; Ward, Blaimer & Fisher, 2016: 347.

**Genera of Melophorini:** *Lasiophanes*, *Melophorus*, *Myrmecorhynchus*, *Notoncus*, *Notostigma*, *Prolasius*, *Pseudonotoncus*, *Stigmatocros*, *Teratomyrmex*.

**Melophorini references:** Forel, 1893a: 165 (synoptic classification); Emery, 1895j: 772 (synoptic classification); Forel, 1917: 248 (synoptic classification); Wheeler, W.M. 1922a: 694 (genera key); Emery, 1925b: 10 (diagnosis, genera key, catalogue); Brown, 1955d: 471 (review of tribe); Wheeler, G.C. & Wheeler, J. 1970: 652 (larva diagnosis); Wheeler, G.C. & Wheeler, J. 1976b: 62 (larva, review and synthesis); Dlussky & Fedoseeva, 1988: 77 (synoptic classification); Hölldobler & Wilson, 1990: 17 (synoptic classification); Bolton, 1994: 50 (synoptic classification); Bolton, 1995a: 1039 (census); Bolton, 1995b: 12 (catalogue); Bolton, 2003: 28, 130 (diagnosis, synopsis); Blaimer, Brady, *et al.* 2015: 6 (phylogeny, reclassification, synopsis); Ward, Blaimer & Fisher, 2016: 347 (phylogeny, reclassification, synopsis).

MERANOPLINI [junior synonym of Crematogastrini]

**Meranoplini** Emery, 1914a: 37 (diagnosis in key). Type-genus: *Meranoplus* Smith, F. 1853: 224.

**Taxonomic history**

Meranoplinae as tribe of Myrmicinae: Emery, 1914a: 37; Arnold, 1917: 360; Forel, 1917: 244; Wheeler, W.M. 1922a: 663; Emery, 1924d: 222; Chapman & Capco, 1951: 111; Dlussky & Fedoseeva, 1988: 80; Hölldobler & Wilson, 1990: 16; Bolton, 1995b: 13; Bolton, 2003: 67, 242.

Meranoplinae as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

#### MESOCAMPONOTINAE [unavailable name]

Mesocamponotinae Forel, 1912i: 88 [as "section" of Camponotinae]. Unavailable name; not based on genus rank taxon.

[Note: section designated to include tribes Melophorini and Plagiolepidini. Contained material referable to Formicinae (Bolton, 1994: 51, Bolton, 1995b: 13, Bolton, 2003: 265).]

#### METADORYLINAE [unavailable name]

Metadorylinae Forel, 1917: 240 [as "section" of Dorylinae]. Unavailable name; not based on genus rank taxon.

[Note: section designated to include tribes Ecitonini and Leptanillini. Contained material referable to Ecitoninae and Leptanillinae (Bolton, 1990c: 1357, Bolton, 1994: 70, Bolton, 1995b: 13, Bolton, 2003: 265). Ecitoninae material referable to Dorylinae (Borowiec, M.L. 2016: 14).]

#### METAPONINI [junior synonym of Crematogastrini]

**Metaponini** Forel, 1911h: 447. Type-genus: *Metapone* Forel, 1911h: 447.

##### **Taxonomic history**

Metaponini as tribe of Ponerinae: Forel, 1911h: 446.

Metaponini as tribe of Myrmicinae: Emery, 1914a: 34 [Metaponini]; Forel, 1917: 240; Emery, 1921f: 19; Wheeler, W.M. 1922a: 661; Chapman & Capco, 1951: 114; Dlussky & Fedoseeva, 1988: 79; Hölldobler & Wilson, 1990: 16; Bolton, 1995b: 13; Bolton, 2003: 71, 257.

Metaponini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

#### \*MIOMYRMECINI [tribe of Dolichoderinae]

\***Miomymecini** Carpenter, 1930: 51. Type-genus: *Miomymex* Carpenter, 1930: 51.

##### **Taxonomic history**

\*Miomymecini as junior synonym of Dolichoderinae: Bolton, 1994: 26; Bolton, 1995b: 13; Bolton, 2003: 19, 81.

\*Miomymecini as tribe of Dolichoderinae: Carpenter, 1930: 51 [\*Miomymecini]; Ward, *et al.* 2010: 362 [by implication].

**Genus of \*Miomymecini:** *Miomymex*.

#### MONOMORIINI [junior synonym of Solenopsidini]

**Monomoriini** Emery, 1914a: 41. Type-genus: *Monomorium* Mayr, 1855: 452.

##### **Taxonomic history**

Monomoriini as subtribe of Solenopsidini: Emery, 1914a: 41; Arnold, 1916: 203; Forel, 1917: 242; Emery, 1922e: 162.

Monomoriini as tribe of Myrmicinae: Dlussky & Fedoseeva, 1988: 80.

Monomoriini as junior synonym of Solenopsidini: Bolton, 1994: 106; Bolton, 1995b: 13; Bolton, 2003: 59, 207; Ward, *et al.* 2015: 77.

MONOMORIINI [junior homonym and junior synonym of the above (described independently of Emery, 1914a: 41)]

**Monomoriini** Wheeler, W.M. 1915h: 45. Type-genus: *Monomorium* Mayr, 1855: 452.

##### **Taxonomic history**

Monomoriini as tribe of Myrmicinae: Wheeler, W.M. 1915h: 45.

Monomoriini as junior synonym of Solenopsidini: Bolton, 1995b: 13; Bolton, 2003: 59, 207.

### MYCETOMYRMICINAE [unavailable name]

Mycetomyrmicinae Forel, 1917: 246 [as "section" of Myrmicinae]. Unavailable name; not based on genus rank taxon.

[Note: section designated to include tribes Attini and Proattini. Contained material referable to Myrmicinae (Bolton, 1994: 106, Bolton, 1995b: 13, Bolton, 2003: 265).]

### MYRMECIINAE [subfamily of Formicidae]

**Myrmeciidae** Emery, 1877a: 71. Type-genus: *Myrmecia* Fabricius, 1804: 423.

#### Taxonomic history

Myrmeciinae as group of Myrmicidae: Emery, 1877a: 71 [Myrmeciidae].

Myrmeciinae as subfamily of Poneridae: Ashmead, 1905b: 382.

Myrmeciinae as subfamily of Formicidae: Clark, 1951: 17; Brown, 1954e: 22; Taylor & Brown, 1985: 6; Dlussky & Fedoseeva, 1988: 78; Hölldobler & Wilson, 1990: 11; Brandão, 1991: 390; Bolton, 1995b: 13; Bolton, 2003: 29, 131; Brady, *et al.* 2006: 18173; Moreau, *et al.* 2006: 102; Ward, 2007a: 556; Boudinot, 2015: 49; Perkovsky, 2016: 114.

**Tribes of Myrmeciinae:** Myrmeciini, Prionomyrmecini.

**Genera incertae sedis in Myrmeciinae:** \**Archimyrmex*, \**Avitomyrmex*, \**Macabeemyrma*, \**Propalosoma*, \**Ypresiomyrma*.

**Collective group name in Myrmeciinae:** \**Myrmeciites*.

**Myrmeciinae references:** Smith, F. 1858b: 143 (diagnosis); Mayr, 1862: 723 (all species key); Mayr, 1865: 18 (diagnosis); Forel, 1893a: 162 (diagnosis); Emery, 1895j: 766 (diagnosis); Wheeler, W.M. 1910g: 134 (diagnosis); Emery, 1911d: 17 (diagnosis, subgenera key); Forel, 1917: 235 (synoptic classification); Clark, 1943: 85 (*Promyrmecia* species key); Clark, 1951: 21, 119 (*Myrmecia*, *Promyrmecia* **all species revisions, keys**); Brown, 1953j: 1 (revisionary notes); Brown, 1954e: 22 (diagnosis, phylogeny); Eisner, 1957: 449 (proventriculus morphology); Brown, 1958h: 10 (New Zealand); Gotwald, 1969: 113 (mouthparts morphology); Wheeler, G.C. & Wheeler, J. 1972a: 38 (diagnosis); Brown, 1973b: 165 (genera, distribution); Wheeler, G.C. & Wheeler, J. 1976b: 46 (larvae, review and synthesis); Greenslade, 1979: 11 (South Australia, review); Kugler, C. 1980b: 263 (sting structure); Taylor & Brown, 1985: 6 (Australia catalogue); Wheeler, G.C. & Wheeler, J. 1985: 256 (synoptic classification); Billen, 1986: 170 (Dufour's gland); Dlussky & Fedoseeva, 1988: 77 (synoptic classification); Billen, 1988: 27 (comparison of genera); Billen, 1990: 133 (sting bulb gland); Ogata, 1991a: 353 (species groups review, phylogeny); Ogata & Taylor, 1991d: 1623 (**all species review, key**); Brandão, 1991: 390 (Neotropical \*fauna, synoptic classification); Baroni Urbani, *et al.* 1992: 317 (phylogeny); Bolton, 1994: 73 (diagnosis, synoptic classification); Bolton, 1995a: 1050 (census); Shattuck, 1999: 119 (Australia, synopsis); Baroni Urbani, 2000: 480 (phylogeny); Dlussky & Rasnitsyn, 2002: 418 (\*fossil taxa, diagnosis for impression fossils); Ward & Brady, 2003: 361 (phylogeny, classification); Bolton, 2003: 29, 131 (diagnosis, synopsis); Brady, *et al.* 2006: 18173 (phylogeny); Moreau, *et al.* 2006: 102 (phylogeny); Archibald, *et al.* 2006: 505 (\*fossil taxa, morphology, systematics, discussion); Heterick, 2009: 119 (south-western Australia species key); Keller, 2011: 1 (morphology, phylogeny); Boudinot, 2015: 49 (male diagnosis).

### MYRMECIINI [tribe of Myrmeciinae]

**Myrmeciidae** Emery, 1877a: 71. Type-genus: *Myrmecia* Fabricius, 1804: 423.

#### Taxonomic history

Myrmeciini as tribe of Ponerinae: Forel, 1893a: 162 [Myrmecii]; Emery, 1895j: 766 [Myrmecii]; Emery, 1901a: 36 [Myrmecii]; Ruzsky, 1905b: 174 [Myrmecii]; Wheeler, W.M. 1910g: 134

[Myrmecii]; Emery, 1911d: 17 [Myrmeciini]; Forel, 1917: 235 [Myrmeciini]; Wheeler, W.M. 1922a: 636, 640 [Myrmeciini]; subsequent authors.

Myrmeciini as tribe of Myrmecinae: Brown, 1954e: 23; Bolton, 1995b: 13; Bolton, 2003: 29, 132.

**Genus of Myrmeciini:** *Myrmecia*.

MYRMECININI [junior synonym of Crematogastrini]

**Myrmecinini** Ashmead, 1905b: 383. Type-genus: *Myrmecina* Curtis, 1829: 265.

**Taxonomic history**

Myrmecinini as tribe of Myrmicinae: Ashmead, 1905b: 383; Emery, 1912b: 105; Emery, 1914a: 37; Arnold, 1916: 190; Emery, 1916b: 169; Forel, 1917: 244; Wheeler, W.M. 1922a: 663, 670; Emery, 1924d: 229; Chapman & Capco, 1951: 114; Kempf, 1972a: 264; Smith, D.R. 1979: 1399; Dlussky & Fedoseeva, 1988: 79; Bolton, 1995b: 13; Bolton, 2003: 71, 255.

Myrmecinini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

[MYRMECINI: incorrect subsequent spelling by Santschi, 1914b: 71.]

**Myrmecinini references:** Emery, 1912b: 105 (genera key); Emery, 1914a: 37, 41 (diagnosis (in key), synoptic classification); Forel, 1917: 244 (synoptic classification); Wheeler, W.M. 1922a: 670 (genera key); Emery, 1924d: 229 (diagnosis, genera key, catalogue); Wheeler, G.C. & Wheeler, J. 1976b: 55 (larvae, review and synthesis); Dlussky & Fedoseeva, 1988: 79 (synoptic classification); Bolton, 1994: 105 (synoptic classification); Bolton, 1995a: 1041 (census); Bolton, 1995b: 13 (catalogue); Bolton, 2003: 71, 255 (diagnosis, synopsis).

MYRMECORHYNCHINI [junior synonym of Melophorini]

**Myrmorhynchini** Wheeler, W.M. 1917f: 19. Type-genus: *Myrmecorhynchus* André, 1896b: 253.

**Taxonomic history**

Myrmecorhynchini as tribe of Camponotinae: Wheeler, W.M. 1917f: 19 (in text).

Myrmecorhynchini: Emery, 1925b: 35; justified emendation of spelling.

Myrmecorhynchini as tribe of Formicinae: Emery, 1925b: 35 [Myrmecorhynchini]; Wheeler, G.C. & Wheeler, J. 1970: 651; Wheeler, G.C. & Wheeler, J. 1976b: 64; Wheeler, G.C. & Wheeler, J. 1985: 258; Hölldobler & Wilson, 1990: 17; Bolton, 2003: 24, 109.

Myrmecorhynchini as junior synonym of Melophorini: Wheeler, W.M. 1935c: 69 (in text); Brown, 1955d: 471; Bolton, 1994: 50; Bolton, 1995b: 13; Blaimer, Brady, *et al.* 2015: 6 [by implication]; Ward, Blaimer & Fisher, 2016: 347.

[MYRMORHYNCHINI: incorrect subsequent spelling by Wheeler, W.M. 1917f: 19 (in text).]

**Myrmecorhynchini references:** Emery, 1925b: 35 (diagnosis, catalogue); Wheeler, W.M. 1922a: 694 (genera key, as part of Melophorini); Brown, 1955d: 471 (review of tribe, as part of Melophorini); Wheeler, G.C. & Wheeler, J. 1970: 652 (larva diagnosis); Wheeler, G.C. & Wheeler, J. 1976b: 64 (larvae, review and synthesis); Dlussky & Fedoseeva, 1988: 77 (synoptic classification); Hölldobler & Wilson, 1990: 17 (synoptic classification); Bolton, 1994: 50 (synoptic classification); Bolton, 2003: 24, 109 (diagnosis, synopsis).

**MYRMELACHISTINI** [tribe of Formicinae]

**Myrmelachistini** Forel, 1912i: 89 (diagnosis in key). Type-genus: *Myrmelachista* Roger, 1863a: 162.

**Taxonomic history**

Myrmelachistini as tribe of Camponotinae: Forel, 1912i: 89; Forel, 1917: 249; Arnold, 1920a: 552.

Myrmelachistini as tribe of Formicinae: Wheeler, W.M. 1922a: 696; Emery, 1925b: 31; Chapman & Capco, 1951: 208; Kempf, 1972a: 266; Smith, D.R. 1979: 1423; Dlussky & Fedoseeva, 1988: 77; Hölldobler & Wilson, 1990: 18; Brandão, 1991: 393; Bolton, 1995b: 13; Bolton, 2003: 22, 100; Blaimer, Brady, *et al.* 2015: 6; Ward, Blaimer & Fisher, 2016: 348.

Myrmelachistini as junior synonym of Plagiolepidini: Bolton, 2003: 22, 100.

Myrmelachistini as senior synonym of Brachymyrmecini: Blaimer, Brady, *et al.* 2015: 6 [by implication]; Ward, Blaimer & Fisher, 2016: 348.

[**MYRMELACHISTINAE**: incorrect subsequent spelling by Dlussky & Fedoseeva, 1988: 77.]

**Genera of Myrmelachistini:** *Brachymyrmex*, *Myrmelachista*.

**Myrmelachistini references:** Blaimer, Brady, *et al.* 2015: 6 (phylogeny, reclassification, synopsis); Ward, Blaimer & Fisher, 2016: 348 (phylogeny, reclassification, synopsis); Fernández & Ortiz-Sepúlveda, 2019: 723 (Colombia).

MYRMICARIINI [junior synonym of Solenopsidini]

**Myrmicarii** Forel, 1893a: 165. Type-genus: *Myrmicaria* Saunders, W.W. 1842: 57.

#### **Taxonomic history**

Myrmicariini as tribe of Myrmicinae: Forel, 1893a: 165 [Myrmicarii]; Emery, 1895j: 770 [Myrmicarii]; Wheeler, W.M. 1910g: 141 [Myrmicarii]; Ashmead, 1905b: 383 [Myrmicariini]; Emery, 1914a: 36 [Myrmicariini]; Santschi, 1914b: 115 [Myrmicarii]; Arnold, 1916: 261; Forel, 1917: 242; Emery, 1922e: 120; Wheeler, W.M. 1922a: 661 [Myrmicariini]; Chapman & Capco, 1951: 123; subsequent authors; Dlussky & Fedoseeva, 1988: 79; Hölldobler & Wilson, 1990: 16; Bolton, 1995b: 13; Bolton, 2003: 68, 242.

Myrmicariini as junior synonym of Solenopsidini: Ward, *et al.* 2015: 77.

[**MYRMECARIINI**: incorrect subsequent spelling by Ashmead, 1905b: 383.]

**MYRMICINAE** [subfamily of Formicidae]

**Myrmicites** Lepeletier de Saint-Fargeau, 1835: 169 [as family-group name (Heterogynides, tribu Myrmicites)]. Type-genus: *Myrmica* Latreille, 1804: 179.

[Note: the family-group name *Myrmicites* Lepeletier de Saint-Fargeau, 1835: 169, is not cognate with the myrmicine collective genus-group name *\*Myrmicites* Förster, 1891: 448.]

#### **Taxonomic history**

Myrmicinae as family-group name: Nylander, 1846a: 877 [Myrmicae].

Myrmicinae as family: Smith, F. 1851: 4 [Myrmicidae]; Smith, F. 1861b: 45 [Myrmicidae]; Smith, F. 1871a: 324 [Myrmicidae]; André, 1882a: 125, 255 [Myrmicidae]; White, W.F. 1884: 259 [Myrmicidae]; Cresson, 1887: 93 [Myrmicidae]; Emery, 1894g: 383 [Myrmicidae]; Saunders, 1896: 18 [Myrmicidae]; Ashmead, 1905b: 383 [Myrmicidae]; Novák & Sadil, 1941: 71 [Myrmicidae]; Bernard, 1951: 1058 [Myrmicidae]; Bernard, 1953b: 222 [Myrmicidae].

Myrmicinae as subfamily of Poneridae: Smith, F. 1858b: 114 [Myrmicidae].

Myrmicinae as tribe of Formicidae: André, 1874: 171 [Myrmicidae].

Myrmicinae as subfamily of Myrmicidae: Ashmead, 1905b: 383.

Myrmicinae as subfamily of Formicidae: Nylander, 1846a: 877 [Myrmicae]; Mayr, 1855: 290, 390 [Formicina, Myrmicidae]; Nylander, 1856b: 53 [Myrmicineae]; Smith, F. 1857a: 70 [Myrmicidae]; Smith, F. 1860c: 69 [Myrmicidae]; Mayr, 1861: 21, 29 [Formicidae, Myrmicidae]; Smith, F. 1862b: 33 [Myrmicidae]; Mayr, 1862: 738 [Myrmicidae]; Mayr, 1865: 17 [Myrmicidae]; Mayr, 1868b: 24 [Myrmicidae]; Forel, 1870: 307 [Myrmicidae]; Dours, 1873: 167 [Myrmicidae]; Forel, 1874: 22, 67 [Formicariae, Myrmicidae]; Emery, 1875b: 470 [Myrmicidei]; Emery, 1877a: 70 [Myrmicidae]; Forel, 1878: 367 [Myrmicidae]; Emery & Forel, 1879a: 456 [Myrmicidae]; André, 1881b: 64 [Myrmicidae]; Emery, 1887b: 449 [Myrmicidae]; Nasonov, 1889: 28 [Myrmicidae]; Forel, 1890a: lxviii [Myrmicides]; Forel, 1891b: 143 [Myrmicidae]; Forel, 1892j: 220 [Myrmicidae]; Forel, 1893a: 163 [Myrmicinae]; Dalla Torre, 1893: 53 [Myrmicinae]; Emery, 1895c: 269 [Myrmicini]; Emery, 1895j: 768 [subfamily spelled Myrmicini]; Emery, 1896e: 179 [Myrmicinae]; Mayr, 1897: 427 [Myrmicini]; Forel, 1899c: 30; Sharp, 1899: 158 [Myrmicides]; Forel, 1901b: 10 [Myrmicinae]; Forel, 1902f: 520; Bingham, 1903: 105 [Myrmecinae]; Ruzsky, 1905b: 103;

Forel, 1908e: 65 [Myrmicidae]; Santschi, 1910e: 648 [Myrmicines]; Wheeler, W.M. 1910g: 138 [Myrmicinae]; Santschi, 1913h: 36 [Myrmicinae]; Emery, 1914a: 29; Santschi, 1914b: 70 [Myrmicinae]; Donisthorpe, 1915d: 74; Wheeler, 1915g: 806 [Myrmicides]; Wheeler, W.M. 1915h: 40; Arnold, 1916: 166; Emery, 1916b: 111 [Myrmicinae]; Escherich, 1917: 2 [Myrmicini]; Forel, 1917: 240 [subfamily erroneously spelled Myrmicini]; Bondroit, 1918: 14 [Myrmicitae]; Wheeler, W.M. 1920: 53 [Myrmicinae]; Wheeler, W.M. 1922a: 124, 655 [Myrmicinae]; Emery, 1921f: 3 [Myrmicinae]; Karavaiev, 1934: 59; Chapman & Capco, 1951: 82; Clark, 1951: 16; Smith, M.R. 1951a: 789; Brown, 1954e: 28; Ettershank, 1966: 73; Wheeler, G.C. & Wheeler, J. 1972a: 40; Kempf, 1972a: 263; Brown, 1973b: 166; Baroni Urbani, 1984: 76; Dlussky & Fedoseeva, 1988: 79; Hölldobler & Wilson, 1990: 12; Ogata, 1991b: 73; Bolton, 1995b: 13; Bolton, 2003: 52, 182; Moreau, *et al.* 2006: 102; Brady, *et al.* 2006: 18173; Ward, 2007a: 556; Boudinot, 2015: 56; Perkovsky, 2016: 115.

[**MYRMECIDAE/MYRMECINAE**: incorrect subsequent spelling by Mayr, 1867a: 91, Kirby, W.F. 1896: 207, Bingham, 1903: 105, and others.]

[**MYRMYCINAE**: incorrect subsequent spelling by Santschi, 1932g: 3, Santschi, 1937a: 51.]

**Tribes of Myrmicinae**: Attini, Crematogastrini, Myrmicini, Pogonomyrmecini, Solenopsidini, Stenammini.

**Genera incertae sedis in Myrmicinae**: \**Afromyrma*, \**Agastomyrma*, \**Attopsis*, \**Biamomyrma*, \**Bilobomyrma*, \**Boltonidris*, \**Brachytarsites*, \**Cephalomyrmex*, \**Clavipetiola*, \**Electromyrmex*, \**Eocenidris*, \**Eomyrmex*, \**Fallomyrma*, \**Fushunomyrmex*, \**Ilemomyrmex*, \**Miosolenopsis*, \**Orbigastrula*, \**Quadrulicapito*, \**Quineangulicapito*, \**Sinomyrmex*, \**Solenopsites*, \**Sphaerogasterites*, \**Wumyrmex*, \**Zhangidris*.

**Collective group name in Myrmicinae**: \**Myrmicites*.

**Myrmicinae references, world**: Mayr, 1865: 17 (diagnosis); Mayr, 1867a: 91 (diagnosis); Forel, 1878: 367 (diagnosis); Handlirsch, 1907: 872 (\*fossil taxa catalogue); Dalla Torre, 1893: 53 (catalogue); Emery, 1895j: 768 (diagnosis); Emery, 1896e: 179 (genera key); Wheeler, W.M. 1910g: 138 (diagnosis); Emery, 1912b: 101 (phylogeny); Emery, 1914a: 34 (phylogeny, tribe key); Arnold, 1916: 164 (diagnosis); Forel, 1917: 240 (synoptic classification); Forel, 1921c: 139 (diagnosis); Emery, 1921f: 3 (diagnosis, tribes and genera key, catalogue); Wheeler, W.M. 1922a: 124, 655 (diagnosis, tribes key); Brown & Nutting, 1950: 126 (venation, phylogeny); Brown, 1954e: 28 (phylogeny); Eisner, 1957: 477 (proventriculus morphology); Bernard, 1967: 93 (diagnosis); Gotwald, 1969: 99 (mouthparts morphology); Wheeler, G.C. & Wheeler, J. 1972a: 40 (diagnosis); Brown, 1973b: 166 (genera, distribution); Wheeler, G.C. & Wheeler, J. 1976b: 52 (larvae, review and synthesis); Kugler, C. 1978a: 413 (sting structure); Kugler, C. 1978b: 267 (pygidial glands); Kugler, C. 1979c: 117 (sting, evolution); Snelling, R.R. 1981: 393 (synoptic classification); Caetano, F.H. 1984: 257 (digestive tract, morphology); Taylor & Brown, 1985: 53 (Australia catalogue); Wheeler, G.C. & Wheeler, J. 1985: 257 (synoptic classification); Billen, 1986: 167 (Dufour's gland); Dlussky & Fedoseeva, 1988: 79 (synoptic classification); Hölldobler & Wilson, 1990: 9 onward (synoptic classification, genera keys); Baroni Urbani, *et al.* 1992: 317 (phylogeny); Bolton, 1994: 75 (diagnosis, synoptic classification, genera keys); Bolton, 1995a: 1040 (census); Bolton, 1995b: 13 (catalogue); Hashimoto, 1996: 354 (phylogenetic position); Baroni Urbani, 2000: 480 (phylogeny); Dlussky & Rasnitsyn, 2002: 422 (diagnosis for wingless fossils); Bolton, 2003: 52, 182 (diagnosis, synopsis); Moreau, *et al.* 2006: 102 (phylogeny); Brady, *et al.* 2006: 18173 (phylogeny); Ward, 2007a: 556 (classification); Keller, 2011: 1 (morphology, phylogeny); Ward, *et al.* 2015: 61 (phylogeny); Boudinot, 2015: 56 (male diagnosis); Fisher & Bolton, 2016: 50 (diagnosis).

**Myrmicinae: regional and national faunas with keys**: Mayr, 1855: 391 (Austria); Mayr, 1861: 29 (Europe); Mayr, 1868b: 79 (\*Baltic Amber); André, 1874: 171 (Europe); Forel, 1874: 29 (Switzerland); Saunders, E. 1880: 213 (Britain); André, 1882c: 256 (Europe and Algeria); Cresson, 1887: 98 (U.S.A. genera); Provancher, 1887: 243 (Canada); Nasonov, 1889: 54 (Russia); Forel,

1891b: 11 (Madagascar genera); Lameere, 1892: 66 (Belgium); Forel, 1902f: 520 (India and Sri Lanka genera); Bingham, 1903: 105 (India, Sri Lanka and Burma); Ruzsky, 1905b: 103 (Russian Empire); Wasmann, 1906: 13 (Luxemburg); Bondroit, 1910: 490 (Belgium); Wheeler, W.M. 1910g: 558 (North America genera); Stitz, 1914: 55 (Central Europe); Gallardo, 1915: 32 (Argentina genera); Forel, 1915d: 8 (Switzerland); Donisthorpe, 1915d: 74 (Britain); Arnold, 1916: 166, 170 (South Africa tribes, genera); Emery, 1916b: 112 (Italy); Wheeler, W.M. 1916m: 581 (U.S.A., Connecticut); Bondroit, 1918: 90 (France and Belgium); Kutter, 1920b: 144 (Switzerland); Soudek, 1922: 20 (Czechoslovakia); Stärcke, 1926: 84 (Netherlands); Karavaiev, 1927c: 256 (Ukraine); Donisthorpe, 1927b: 77 (Britain); Menozzi & Russo, 1930: 170 (Dominican Republic); Gallardo, 1932b: 91 (Argentina, tribes); Arnol'di, 1933b: 596 (Russia); Menozzi, 1933b: 88 (Israel genera); Karavaiev, 1934: 60 (Ukraine); Smith, M.R. 1937: 829 (Puerto Rico); Stitz, 1939: 63 (Germany); Kratochvíl, 1941: 71 (Central Europe); Novák & Sadil, 1941: 71 (Central Europe); Cole, 1942: 360 (U.S.A., Utah); Smith, M.R. 1943f: 291 (U.S.A., males); Holgersen, 1943b: 166 (Norway); Holgersen, 1944: 198 (Norway); Buren, 1944a: 281 (U.S.A., Iowa); Smith, M.R. 1947f: 543 (U.S.A. genera); van Boven, 1947: 170 (Belgium); Creighton, 1950a: 83 (Nearctic); Kusnezov, 1956: 15 (Argentina); Brown, 1958h: 25 (New Zealand); van Boven, 1959: 7 (Netherlands); Gregg, 1963: 288 (U.S.A., Colorado); Wheeler, G.C. & Wheeler, J. 1963: 92 (U.S.A., North Dakota); Collingwood, 1964: 94 (Britain); Bernard, 1967: 95 (Western Europe); Wilson & Taylor, 1967: 13 (Polynesia); van Boven, 1970b: 9 (Netherlands); Kempf, 1972a: 263 (Neotropical, synoptic classification); Bolton, 1973a: 325 (West Africa genera); Bolton & Collingwood, 1975: 3 (Britain); Snelling, R.R. & Hunt, 1976: 70 (Chile); Tarbinsky, 1976: 19 (Kyrghyzstan); van Boven, 1977: 69 (Belgium); Kutter, 1977c: 31 (Switzerland); Arnol'di & Dlussky, 1978: 524 (former European U.S.S.R.); Collingwood, 1978: 75 (Iberian Peninsula); Collingwood, 1979: 36 (Fennoscandia and Denmark); Greenslade, 1979: 20 (South Australia genera); Schembri & Collingwood, 1981: 423 (Malta); Allred, 1982: 438 (U.S.A., Utah); Baroni Urbani, 1984: 76 (Neotropical genera); Verhaeghe, Deligne, *et al.* 1984: 112 (Belgium genera); Gösswald, 1985: 289 (Germany); Collingwood, 1985: 245 (Saudi Arabia); Wheeler, G.C. & Wheeler, J. 1986g: 20 (U.S.A., Nevada); Nilsson & Douwes, 1987: 57 (Norway); Agosti & Collingwood, 1987b: 265 (Balkans); Dlussky, *et al.* 1990: 181 (Turkmenistan); Kupyanskaya, 1990: 89 (Far Eastern Russia); Ogata, 1991b: 73 (Japan genera); Morisita, *et al.* 1992: 1 (Japan); Atanasov & Dlussky, 1992: 51 (Bulgaria); Lattke, in Jaffe, 1993: 153 (Neotropical genera); Arakelian, 1994: 15 (Armenia); Wu, J. & Wang, 1995: 57 (China genera); Kupyanskaya, 1995: 327 (Far Eastern Russia); Collingwood & Agosti, 1996: 308 (Saudi Arabia); Seifert, 1996b: 108 (Central Europe); Skinner & Allen, 1996: 43 (Britain); Collingwood & Prince, 1998: 10 (Portugal); Shattuck, 1999: 39, 122 (Australia genera, synopsis); Andersen, 2000: 37 (northern Australia genera); Zhou, 2001b: 69 (China, Guangxi); Czechowski, *et al.* 2002: 135 (Poland); Aktaş & Radchenko, 2002: 55 (Turkey genera); Yoshimura & Onoyama, 2002: 424 (Japan genera, males); Mackay & Mackay, 2002: 58 (U.S.A., New Mexico); Palacio & Fernández, in Fernández, 2003d: 244 (Neotropical genera and synopsis); Coover, 2005: 32 (U.S.A., Ohio); Radchenko, 2005b: 184 (North Korea); Clouse, 2007b: 190 (Micronesia); Seifert, 2007: 110 (North and Central Europe); Terayama, 2009: 131 (Taiwan); Heterick, 2009: 36 (south-western Australia genera); Boer, 2010: 46 (Benelux); Eguchi, *et al.* 2011: 8 (Vietnam genera); Czechowski, *et al.* 2012: 344 (Poland); General & Alpert, 2012: 73 (Philippines genera key); Dlussky & Perfilieva, 2014: 433 (British Eocene species key); Baccaro, *et al.* 2015: 82, 202 (Brazil genera key, text); Fernández & Serna, 2019: 791 (Colombia fauna).

### **MYRMICINI** [tribe of Myrmicinae]

**Myrmicites** Lepeletier de Saint-Fargeau, 1835: 169 [as family-group name]. Type-genus: *Myrmica* Latreille, 1804: 179.

### **Taxonomic history**

Myrmicini as tribe of Myrmicidae: Forel, 1891b: 143.

Myrmicini as tribe of Myrmicinae: Emery, 1877a: 72 [Myrmicidae genuini]; Forel, 1891b: 143 [Myrmicini]; Forel, 1893a: 164 [Myrmicii]; Emery, 1895c: 271 [Myrmicii]; Emery, 1895j: 768 [Myrmicii]; Forel, 1895b: 124 [Myrmicii]; Forel, 1899c: 52 [Myrmicii]; Sharp, 1899: 159 [Myrmicini]; Forel, 1901b: 12 [Myrmicii]; Ashmead, 1905b: 383 [Myrmicini]; Forel, 1908e: 65 [Myrmicii]; Santschi, 1910e: 648 [Myrmicii]; Wheeler, W.M. 1910g: 139 [Myrmicii]; Emery, 1914a: 35 [Myrmicini]; Santschi, 1914b: 72 [Myrmicii]; Wheeler, W.M. 1915h: 51; Emery, 1916b: 118 [Myrmicini]; Forel, 1917: 240; Emery, 1921f: 35; Wheeler, W.M. 1922a: 660 [Myrmicini]; Chapman & Capco, 1951: 124; Kempf, 1972a: 263 [Myrmicini]; Hölldobler & Wilson, 1990: 16; Bolton, 1995b: 13; Bolton, 2003: 61, 220.

[MYRMICII: incorrect subsequent spelling by Forel, 1908e: 65.]

**Genera of Myrmicini:** *Manica*, *Myrmica*, \**Plesiomyrmex*, \**Protomyrmica*.

**Myrmicini references:** Emery, 1895j: 768 (diagnosis); Wheeler, W.M. 1910g: 139 (diagnosis); Emery, 1914a: 35, 40 (diagnosis (in key), synoptic classification); Forel, 1917: 240 (synoptic classification); Emery, 1921f: 35 (diagnosis, genera key, catalogue); Wheeler, W.M. 1922a: 660 (genera key); Wheeler, G.C. & Wheeler, J. 1976b: 53 (larvae, review and synthesis); Kugler, C. 1978a: 414 (sting structure); Dlussky & Fedoseeva, 1988: 79 (synoptic classification); Hölldobler & Wilson, 1990: 16 (synoptic classification); Brandão, 1991: 390 (Neotropical fauna, synoptic classification); Bolton, 1994: 106 (synoptic classification); Bolton, 1995a: 1041 (census); Bolton, 1995b: 13 (catalogue); Fernández, 2003d: 319 (Neotropical genera); Bolton, 2003: 61, 220 (diagnosis, synopsis); Jansen & Savolainen, 2010: 482 (phylogeny of tribe); Ward, *et al.* 2015: 67 (reclassification).

### **MYRMOTERATINI** [tribe of Formicinae]

**Myrmoteratii** Emery, 1895j: 772. Type-genus: *Myrmoteras* Forel, 1893f: 607.

#### **Taxonomic history**

Myrmoteratini as tribe of Camponotinae: Emery, 1895j: 772 [Myrmoteratii]; Ruzsky, 1905b: 110 [Mymoteratii]; Wheeler, W.M. 1910g: 143 [Myrmoteratii]; Forel, 1917: 248 [Myrmoteratini].

Myrmoteratini as tribe of Gesomyrmecinae: Ashmead, 1905b: 384 [Myrmoteratini].

Myrmoteratini as tribe of Formicinae: Wheeler, W.M. 1922a: 694; Emery, 1925b: 36; Chapman & Capco, 1951: 209; subsequent authors; Dlussky & Fedoseeva, 1988: 77; Hölldobler & Wilson, 1990: 17; Bolton, 1995b: 13; Bolton, 2003: 23, 107; Ward, Blaimer & Fisher, 2016: 348.

Myrmoteratini Emery as senior synonym of Myrmoteratini Forel: Bolton, 1995b: 13; Bolton, 2003: 107; Ward, Blaimer & Fisher, 2016: 348.

**Genus of Myrmoteratini:** *Myrmoteras*.

MYRMOTERATINI [junior homonym and junior synonym of the above (described as new independently of Emery, 1895j: 772)]

**Myrmoteratini** Forel, 1912i: 88. Type-genus: *Myrmoteras* Forel, 1893f: 607.

#### **Taxonomic history**

Myrmoteratini as tribe of Camponotinae: Forel, 1912i: 88; Forel, 1917: 248.

Myrmoteratini Forel as junior homonym and junior synonym of Myrmoteratini Emery: Bolton, 1995b: 13; Bolton, 2003: 23, 107; Ward, Blaimer & Fisher, 2016: 348.

### **NEOATTINI** [unavailable name]

Neoattini Kusnezov, 1956: 22; Kusnezov, 1964: 62 [as subdivision of tribe Attini]. Unavailable name; not based on genus rank taxon.

[Note (i): designated to include all attine genera except *Apterostigma*, *Mycocepurus*, *Myrmicocrypta*. Contained material referable to Attini (Bolton, 2003: 265).]

[Note (ii): **Neoattini** Sosa-Calvo & Schultz, 2010: 183 (in text), and **Neoattina** Sosa-Calvo, Schultz, *et al.* 2018: 554 (fig. 2); unavailable names; not based on genus rank taxon.]

NOTHOMYRMECIINI [junior synonym of Prionomyrmecini]

**Nothomyrmecii** Clark, 1934a: 8. Type-genus: *Nothomyrmecia* Clark, 1934a: 17.

**Taxonomic history**

Nothomyrmeciini as tribe of Ponerinae: Clark, 1934a: 8 [Nothomyrmecii].

Nothomyrmeciini as subfamily of Formicidae: Clark, 1951: 16 (in key) [Nothomyrmeciinae]; Taylor, 1978a: 982; Snelling, R.R. 1981: 399 [Nothomyrmeciinae]; Taylor & Brown, 1985: 5; Dlussky & Fedoseeva, 1988: 78; Bolton, 1990c: 1362; Hölldobler & Wilson, 1990: 11; Baroni Urbani, *et al.* 1992: 317; Bolton, 1994: 152 [Nothomyrmeciinae]; Bolton, 1995b: 13 [Nothomyrmeciinae].

Nothomyrmeciini as tribe of Myrmeciinae: Brown, 1953j: 3 [Nothomyrmeciini]; Brown, 1954e: 23 [Nothomyrmeciini]; Wheeler, G.C. & Wheeler, J. 1985: 256 [Nothomyrmeciini].

Nothomyrmeciini as tribe of Nothomyrmeciinae: Bolton, 1994: 152 [Nothomyrmeciini].

Nothomyrmeciini as junior synonym of Prionomyrmecini: Baroni Urbani, 2000: 479 [Nothomyrmeciinae]; Bolton, 2003: 30, 133; Ward & Brady, 2003: 375.

NOTOSTIGMATINI [junior synonym of Melophorini]

**Notostigmatini** Bolton, 2003: 27, 126. Type-genus: *Notostigma* Emery, 1920b: 252.

**Taxonomic history**

Notostigmatini as tribe of Formicinae: Bolton, 2003: 27, 126.

Notostigmatini as junior synonym of Melophorini: Blaimer, Brady, *et al.* 2015: 6 [by implication]; Ward, Blaimer & Fisher, 2016: 347.

OCHETOMYRMECINI [junior synonym of Attini]

**Ochetomyrmicini** Emery, 1914a: 38 (diagnosis in key). Type-genus: *Ochetomyrmex* Mayr, 1878: 871.

**Taxonomic history**

Ochetomyrmecini as junior synonym of Solenopsidini: Kempf, 1975c: 358; Wheeler, G.C. & Wheeler, J. 1991a: 133.

Ochetomyrmecini as tribe of Myrmicinae: Emery, 1914a: 38 [Ochetomyrmicini]; Forel, 1917: 245 [Ochetomyrmicini]; Wheeler, W.M. 1922a: 664 [Ochetomyrmicini]; Emery, 1924d: 292 [Ochetomyrmicini]; Kusnezov, 1964: 59; Kempf, 1972a: 264 [Ochetomyrmicini]; Wheeler, G.C. & Wheeler, J. 1976b: 59 [Ochetomyrmecini]; Smith, D.R. 1979: 1402 [Ochetomyrmicini]; Wheeler, G.C. & Wheeler, J. 1985: 257; Bolton, 1987: 266; Dlussky & Fedoseeva, 1988: 80; Hölldobler & Wilson, 1990: 16; Bolton, 1994: 106; Bolton, 1995b: 14.

Ochetomyrmecini as junior synonym of Formicoxenini: Bolton, 2003: 68, 243.

Ochetomyrmecini as junior synonym of Attini: Ward, *et al.* 2015: 77.

OCYMYRMECINI [junior synonym of Crematogastrini]

**Ocymyrmicini** Emery, 1914a: 38 (diagnosis in key). Type-genus: *Ocymyrmex* Emery, 1886: 364.

**Taxonomic history**

Ocymyrmecini as tribe of Myrmicinae: Emery, 1914a: 38 [Ocymyrmicini]; Arnold, 1916: 194; Forel, 1917: 245; Wheeler, W.M. 1922a: 664 [Ocymyrmicini]; Emery, 1924d: 270 [Ocymyrmicini]; Wheeler, G.C. & Wheeler, J. 1976b: 57 [Ocymyrmecini]; Wheeler, G.C. & Wheeler, J. 1985: 257 [Ocymyrmecini]; Dlussky & Fedoseeva, 1988: 79 [Ocymyrmecini].

Ocymyrmecini as junior synonym of Pheidolini: Bolton & Marsh, 1989: 1281; Bolton, 1995b: 14; Bolton, 2003: 63, 228.

Ocymyrmecini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

**ODONTOMACHINI** [junior synonym of Ponerini]

**Odontomachidae** Mayr, 1862: 708. Type-genus: *Odontomachus* Latreille, 1804: 179.

**Taxonomic history**

Odontomachini as family: Smith, F. 1871a: 319 [Odontomachidae]; Cresson, 1887: 93 [Odontomachidae]; Ashmead, 1905b: 382 [Odontomachidae].

Odontomachini as subfamily of Formicidae: Mayr, 1862: 708 [Odontomachidae]; Mayr, 1865: 11 [Odontomachidae]; Mayr, 1866a: 500 [Odontomachidae]; Dours, 1873: 166 [Odontomachidae]; Clark, 1951: 15 (in key) [Odontomachinae].

Odontomachini as tribe of Ponerinae: Forel, 1893a: 163 [Odontomachii]; Forel, 1895b: 117 [Odontomachii]; Emery, 1895c: 268 [Odontomachii]; Emery, 1895j: 768 [Odontomachii]; Forel, 1899c: 18 [Odontomachii]; Sharp, 1899: 171 [Odontomachi]; Forel, 1900c: 57 [Odontomachii]; Emery, 1901a: 36 [Odontomachii]; Forel, 1901b: 5 [Odontomachii]; Ruzsky, 1905b: 174 [Odontomachii]; Forel, 1908e: 64 [Odontomachii]; Emery, 1909c: 374 [Odontomachii]; Wheeler, W.M. 1910g: 135 [Odontomachii]; Emery, 1911d: 106 [Odontomachini]; Santschi, 1914b: 55 [Odontomachini]; Forel, 1917: 238 [Odontomachini]; Gallardo, 1918b: 6 [Odontomachini]; Wheeler, W.M. 1922a: 653 [Odontomachini]; Chapman & Capco, 1951: 39 [Odontomachini]; Wilson, 1959a: 483 [Odontomachini]; Kusnezov, 1964: 53 [Odontomachini]; Kempf, 1972a: 262 [Odontomachini]; Wheeler, G.C. & Wheeler, J. 1976b: 51 [Odontomachini]; Smith, D.R. 1979: 1344 [Odontomachini]; Wheeler, G.C. & Wheeler, J. 1985: 256 [Odontomachini]; Dlussky & Fedoseeva, 1988: 78 [Odontomachini]; Hölldobler & Wilson, 1990: 11 [Odontomachini]; Jaffe, 1993: 8 [Odontomachini].

Odontomachini as subtribe of Ponerini: Brown, 1976a: 71 [Odontomachiti]; Brandão, 1991: 390 [Odontomachiti].

Odontomachini as junior synonym of Ponerini: Emery & Forel, 1879a: 455; Bolton, 1994: 164; Bolton, 1995b: 14; Bolton, 2003: 43, 158; Schmidt, C.A. & Shattuck, 2014: 52.

**OECOPHYLLINI** [tribe of Formicinae]

**Oecophyllii** Emery, 1895j: 772. Type-genus: *Oecophylla* Smith, F. 1860b: 101.

**Taxonomic history**

Oecophyllini as tribe of Camponotinae: Emery, 1895j: 772 [Oecophyllii]; Forel, 1901b: 24 [Oecophyllii]; Ruzsky, 1905b: 110 [Oecophyllii]; Ashmead, 1905b: 384 [Oecophyllini]; Wheeler, W.M. 1910g: 143 [Oecophyllii]; Santschi, 1914b: 128 [Oecophyllini]; Wheeler, W.M. 1915h: 100; Forel, 1917: 250 [Oecophyllini]; Arnold, 1922: 608.

Oecophyllini as tribe of Formicinae: Wheeler, W.M. 1922a: 700; Emery, 1925b: 49; Chapman & Capco, 1951: 220; subsequent authors; Dlussky & Fedoseeva, 1988: 77; Hölldobler & Wilson, 1990: 17; Bolton, 1995b: 14; Bolton, 2003: 25, 100; Ward, Blaimer & Fisher, 2016: 348.

Oecophyllini Emery as senior synonym of Oecophyllini Forel: Bolton, 1995b: 14; Bolton, 2003: 25, 110; Ward, Blaimer & Fisher, 2016: 348.

**Genus of Oecophyllini:** *Oecophylla*.

**OECOPHYLLINI** [junior homonym and junior synonym of the above (described as new independently of Emery, 1895j: 772)]

**Oecophyllini** Forel, 1912i: 89 (diagnosis in key). Type-genus: *Oecophylla* Smith, F. 1860b: 101.

**Taxonomic history**

Oecophyllini as tribe of Camponotinae: Forel, 1912i: 89; Wheeler, W.M. 1915h: 113; Forel, 1917: 250.

Oecophyllini Forel as junior synonym of Oecophyllini Emery: Bolton, 1995b: 14; Bolton, 2003: 25, 110; Ward, Blaimer & Fisher, 2016: 348.

ONYCHOMYRMECINI [junior synonym of Amblyoponinae]

**Onychomyrmecini** Ashmead, 1905b: 382. Type-genus: *Onychomyrmex* Emery, 1895g: 349.

**Taxonomic history**

Onychomyrmecini as tribe of Ponerinae: Ashmead, 1905b: 382 [Onychomyrmecini]; Wheeler, W.M. 1922a: 652 [Onychomyrmecini].

Onychomyrmecini as subtribe of Ponerini: Emery, 1911d: 96 [Onychomyrmecini].

Onychomyrmecini as junior synonym of Amblyoponinae: Brown, 1960a: 178 [by implication as type-genus included in Amblyoponini]; Bolton, 1994: 164; Bolton, 1995b: 9; Bolton, 2003: 42, 153.

ORECTOGNATHITI [junior synonym of Attini]

**Orectognathiti** Brown, 1952g: 10 (footnote). Type-genus: *Orectognathus* Smith, F. 1853: 227.

**Taxonomic history**

Orectognathiti as subtribe of Dacetini: Brown, 1952g: 10 (footnote); Brown, 1953k: 85 (definition); Brown, 1954b: 465; Brown & Wilson, 1959b: 281.

Orectognathiti as junior synonym of Dacetini: Baroni Urbani & De Andrade, 1994: 9; Bolton, 1995b: 10; Bolton, 2003: 54, 186.

Orectognathiti as junior synonym of Attini: Ward, *et al.* 2015: 77.

[**ARESTOGNATHITI**: incorrect subsequent spelling by Brown, 1952g: 10 (in text).]

PACHYCONDYLINAE [junior synonym of Ponerini]

**Pachycondylinae** Ashmead, 1905b: 382. Type-genus: *Pachycondyla* Smith, F. 1858b: 105.

**Taxonomic history**

Pachycondylinae, Pachycondylini as subfamily and tribe of Poneridae: Ashmead, 1905b: 382.

Pachycondylinae as subtribe of Ponerini: Emery, 1911d: 59 [Pachycondylini]; Forel, 1917: 237 [Pachycondylini].

Pachycondylinae as junior synonym of Ponerini: Bolton, 1994: 164; Bolton, 1995b: 14; Bolton, 2003: 43, 158; Schmidt, C.A. & Shattuck, 2014: 52.

**PALEOATTINI** [unavailable name]

Paleoattini Kusnezov, 1956: 22; Kusnezov, 1964: 62 (alternatively spelled Palaeoattini, p. 146) [as subdivision of tribe Attini]. Unavailable name; not based on genus rank taxon.

[Note (i): designated to include genera *Apterostigma*, *Mycocepurus*, *Myrmicocrypta*. Contained material referable to Attini (Bolton, 2003: 265).]

[Note (ii): **Paleoattini**: Sosa-Calvo & Schultz, 2010: 183, and **Paleoattina** Sosa-Calvo, *et al.* 2017: 10 (fig. 1), Sosa-Calvo, Schultz, *et al.* 2018: 554 (fig. 2); unavailable names; not based on genus rank taxon.]

**PALEOPONERINAE** [unavailable name]

Paleoponerinae Forel, 1917: 231 [as "section" of Ponerinae]. Unavailable name; not based on genus rank taxon.

[Note: section designated to include tribe Myrmeciini. Contained material referable to Myrmeciini (Bolton, 1994: 73, Bolton, 1995b: 14, Bolton, 2003: 265).]

\***PALEOSMINTHURIDAE** [junior synonym of Camponotini]

\***Paleosminthuridae** Pierce, W.D. & Gibron, 1962: 146. Type-genus: *\*Paleosminthurus* Pierce, W.D. & Gibron, 1962: 146.

### **Taxonomic history**

\*Paleosminthuridae as family of Collembola: Pierce, W.D. & Gibron, 1962: 146.

\*Paleosminthuridae *incertae sedis* in Formicidae: Najt, 1987: 152.

\*Paleosminthuridae *incertae sedis* as subfamily of Formicidae: Bolton, 1994: 187  
[\*Paleosminthurinae]; Bolton, 1995b: 14; Bolton, 2003: 76, 263.

\*Paleosminthuridae as junior synonym of Camponotini: Snelling, R.R. (pers. comm. to B. Bolton, 2004) [synonymy remained unpublished at Snelling's death in 2008.]; Engel & Grimaldi, 2005: 4 (footnote).

### **PARAPONERINAE** [subfamily of Formicidae]

**Paraponerii** Emery, 1901a: 36. Type-genus: *Paraponera* Smith, F. 1858b: 100.

#### **Taxonomic history**

Paraponerinae as junior synonym of Ectatommini: Brown, 1958g: 176; Hölldobler & Wilson, 1990: 10; Bolton, 1994: 164.

Paraponerinae as tribe of Ponerinae: Emery, 1901a: 36 [Paraponerii]; Emery, 1911d: 27 [Paraponerini]; Forel, 1917: 236 [Paraponerini]; Wheeler, W.M. 1922a: 637, 641; Jaffe, 1993: 7; Lattke, 1994: 111 [Paraponerini]; Bolton, 1995b: 14.

Paraponerinae as subfamily of Formicidae: Bolton, 2003: 47, 178; Brady, *et al.* 2006: 18173; Moreau, *et al.* 2006: 102; Ouellette, *et al.* 2006: 365; Ward, 2007a: 555; Boudinot, 2015: 47.

**Genus of Paraponerinae:** *Paraponera*.

**Paraponerinae references:** Bolton, 2003: 47 (diagnosis, classification); Brady, *et al.* 2006: 18173 (phylogeny); Moreau, *et al.* 2006: 102 (phylogeny); Ouellette, *et al.* 2006: 365 (phylogeny); Ward, 2007a: 555 (classification); Boudinot, 2015: 47 (male diagnosis); Fernandes, de Souza & Baccaro, in Delabie, Feitosa, *et al.* 2015: 43 (phylogeny, taxonomy); Delsinne, Sonet & Arias-Penna, T.M. 2019: 637 (Colombia species)

### PARATOPULINI [junior synonym of Crematogastrini]

**Paratopulini** Bolton, 2003: 65, 237. Type-genus: *Paratopula* Wheeler, W.M. 1919e: 144.

#### **Taxonomic history**

Paratopulini as tribe of Myrmicinae: Bolton, 2003: 65, 237.

Paratopulini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

### PHALACROMYRMECINI [junior synonym of Attini]

**Phalacromyrmecini** Dlussky & Fedoseeva, 1988: 80. Type-genus: *Phalacromyrmex* Kempf, 1960b: 89.

#### **Taxonomic history**

Phalacromyrmecini as tribe of Myrmicinae: Dlussky & Fedoseeva, 1988: 80; Hölldobler & Wilson, 1990: 16; Bolton, 1994: 106; Bolton, 1995b: 14; Bolton, 1998: 72; Bolton, 2003: 54, 192; Ward, 2007a: 557.

Phalacromyrmecini as junior synonym of Dacetini: Baroni Urbani & De Andrade, 1994: 10; Baroni Urbani & De Andrade, 2007: 81.

Phalacromyrmecini as junior synonym of Attini: Ward, *et al.* 2015: 77.

[Note: **Phalacromyrmecini** Wheeler, G.C. & Wheeler, J. 1976b: 60, and **Phalacromyrmecini** Wheeler, G.C. & Wheeler, J. 1985: 258; unavailable names, proposed without diagnosis.]

**Phalacromyrmecini references:** Bolton, 1984: 381 (diagnosis, key); Bolton, 1994: 106 (synoptic classification); Bolton, 1995a: 1041 (census); Bolton, 1995b: 14 (catalogue); Bolton, 1998: 72 (comparative morphology, monophyly, relationships); Bolton, 2003: 54, 192 (diagnosis, synopsis); Baroni Urbani & De Andrade, 2007: 81 (classification).

**PHEIDOLINI** [junior synonym of Attini]

**Pheidolidae** Emery, 1877a: 72. Type-genus: *Pheidole* Westwood, 1839: 219.

**Taxonomic history**

Pheidolini as group of Myrmicidae: Emery, 1877a: 72 [Pheidolidae].

Pheidolini as subtribe of Myrmicini: Emery, 1924d: 357.

Pheidolini as tribe of Myrmicinae: Forel, 1893a: 165 [Pheidolii]; Emery, 1914a: 35 [Pheidolini]; Emery, 1916b: 125 [Pheidolini]; Forel, 1917: 241; Arnold, 1920a: 404; Emery, 1921f: 49; Wheeler, W.M. 1922a: 661, 670 [Pheidolini]; Brown, 1949a: 48; Chapman & Capco, 1951: 131; Smith, D.R. 1979: 1357 [Pheidolini]; Hölldobler & Wilson, 1990: 16; Bolton, 1995b: 14; Bolton, 2003: 63, 228.

Pheidolini as junior synonym of Attini: Ward, *et al.* 2015: 77.

[Pheidolini as senior synonym of Attini: Fernández & Serna, 2019: 829.]

[Note: the name Attini (1858) is easily senior to Pheidolini (1877), but Fernández & Serna, 2019: 829, suggest Pheidolini as the name for the tribe. The compiler of this catalogue maintains temporal priority, pending an appeal by the authors to the International Commission on Zoological Nomenclature, the only body which can approve such a drastic change of usage.]

**Pheidolini references:** Emery, 1914a: 35, 38; 40, 41 (tribe diagnoses (in key); synoptic classifications); Forel, 1917: 241, 243 (synoptic classification); Emery, 1921f: 49 (Pheidolini diagnosis, genera key, catalogue); Wheeler, W.M. 1922a: 670 (genera key); Wheeler, W.M. 1922a: 802, 891 (Afrotropical Pheidolini, Ocymyrmecini catalogues); Wheeler, W.M. 1922a: 1016 (Malagasy catalogue); Emery, 1924d: 270 (Ocymyrmecini diagnosis, catalogue); Kusnezov, 1952b: 9 (genera key); Wheeler, G.C. & Wheeler, J. 1976b: 53, 57 (Pheidolini, Ocymyrmecini larvae, review and synthesis); Kugler, C. 1978a: 460 (sting structure); Dlussky & Fedoseeva, 1988: 80 (synoptic classification); Hölldobler & Wilson, 1990: 16 (synoptic classification); Bolton, 1994: 106 (synoptic classification); Bolton, 1995a: 1041 (census); Bolton, 1995b: 14 (catalogue); Fernández, 2003d: 321 (Neotropical genera); Bolton, 2003: 63, 228 (diagnosis, synopsis).

**PHEIDOLOGETINI** [junior synonym of Crematogastrini]

**Pheidologetini** Emery, 1913c: 586 (footnote, in text). Type-genus: *Pheidologeton* Mayr, 1962: 750.

**Taxonomic history**

Pheidologetini as tribe of Myrmicinae: Emery, 1914a: 38 [Pheidologetini]; Arnold, 1916: 248; Forel, 1917: 243; Emery, 1922e: 206 [Pheidologetini]; Wheeler, W.M. 1922a: 659 [Pheidologetonini]; Emery, 1924d: 207; Chapman & Capco, 1951: 154 [Pheidologetini]; Dlussky & Fedoseeva, 1988: 80; Hölldobler & Wilson, 1990: 16; Bolton, 1992: 38 [Pheidologetonini]; Bolton, 1994: 106 [Pheidologetonini]; Bolton, 1995b: 14.

Pheidologetini as junior synonym of Solenopsidini: Wheeler, W.M. 1922a: 659, 662; Ettershank, 1966: 81; Bolton, 2003: 59, 207.

Pheidologetini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

**PHILIPONA** [unavailable name]

Philipona Kirby, W. 1837: 261 [as family-group name (Heterogyna race Philipona), containing only the family Formicidae]. Unavailable name, not based on a genus rank taxon.

[Note (i): Kirby defines Philipona as, “all those genera that constitute Linné’s genus *Formica*, distinguished by their admirable industry, their wonderful economy, and the nests they construct.” By this definition Philipona is an absolute junior synonym of Formicidae.]

[Note (ii): Westwood, 1839: 217, refers to the “Sodales (or Philipona K.)” which contains, “the single family Formicidae”, which “corresponds with the genus *Formica* of Linnaeus, and the Heterogyna of St. Fargeau.” Thus Philipona and Sodales are absolute synonyms, and both are junior synonyms of Formicidae.]

**\*PITYOMYRMECINI** [tribe of Aneuretinae]

\***Pityomyrmecini** Wheeler, W.M. 1915h: 98. Type-genus: \**Pityomyrmex* Wheeler, W.M. 1915h: 98.

#### **Taxonomic history**

\***Pityomyrmecini** as tribe of Dolichoderinae: Wheeler, W.M. 1915h: 98; Dlussky & Fedoseeva, 1988: 78.

\***Pityomyrmecini** as tribe of Formicinae: Donisthorpe, 1943f: 684.

\***Pityomyrmecini** as junior synonym of Dolichoderinae: Shattuck, 1992c: 5; Bolton, 1994: 26; Bolton, 1995b: 14; Bolton, 2003: 19, 81.

\***Pityomyrmecini** as tribe of Aneuretinae: Dlussky & Rasnitsyn, 2009: 1036 [by implication as type-genus transferred to Aneuretinae].

\***Pityomyrmecini** *incertae sedis* in Dolichoderinae: Ward, *et al.* 2010: 362.

**Genus of Pityomyrmecini:** \**Pityomyrmex*.

#### **PLAGIOLEPIDINI** [tribe of Formicinae]

**Plagiolepisii** Forel, 1886f: 212. Type-genus: *Plagiolepis* Mayr, 1861: 42.

#### **Taxonomic history**

Plagiolepidini as tribe of Camponotinae: Forel, 1886f: 212 [*Plagiolepisii*]; Forel, 1891b: 95 [*Plagiolepisii*]; Forel, 1893a: 165 [*Plagiolepisii*]; Forel, 1893g: 345 [*Plagiolepisii*]; Emery, 1893i: 635 [*Plagiolepidii*]; Forel, 1895b: 106 [*Plagiolepisii*]; Emery, 1895j: 771 [*Plagiolepidii*]; Forel, 1899c: 123 [*Plagiolepidii*]; Forel, 1901b: 24 [*Plagiolepidii*]; Ruzsky, 1905b: 110 [*Plagiolepidii*]; Forel, 1908e: 63 [*Plagiolepisii*]; Wheeler, W.M. 1910g: 143 [*Plagiolepidii*]; Santschi, 1914b: 121 [*Plagiolepidini*]; Emery, 1916b: 219 [*Plagiolepidini*]; Wheeler, W.M. 1915h: 100; Forel, 1917: 249; Arnold, 1920a: 554.

Plagiolepidini as tribe of Formicinae: Ashmead, 1905b: 384; Bondroit, 1918: 18; Wheeler, W.M. 1922a: 695; Emery, 1925b: 15; Santschi, 1926a: 13; Chapman & Capco, 1951: 210; Kempf, 1972a: 266; Smith, D.R. 1979: 1422; Dlussky & Fedoseeva, 1988: 77; Hölldobler & Wilson, 1990: 18; Brandão, 1991: 393; Bolton, 1995b: 14; Bolton, 2003: 22, 100; Blaimer, Brady, *et al.* 2015: 6; Ward, Blaimer & Fisher, 2016: 348.

Plagiolepidini as senior synonym of Bregmatomyrmini: Bolton, 2003: 22, 100; Ward, Blaimer & Fisher, 2016: 348.

**Genera of Plagiolepidini:** *Acropyga*, *Agraulomyrmex*, *Anoplolepis*, *Aphomomyrmex*, *Bregmatomyrma*, *Lepisiota*, *Petalomyrmex*, *Plagiolepis*, *Tapinolepis*.

**Plagiolepidini references:** Forel, 1893a: 165 (synoptic classification); Emery, 1895j: 771 (synoptic classification); Forel, 1917: 249 (synoptic classification); Wheeler, W.M. 1922a: 695, 696, 697 (*Plagiolepidini*, *Myrmelachistini*, *Prenolepidini* genera keys); Wheeler, W.M. 1922a: 928, 1035 (*Afrotropical*, *Malagasy catalogues*); Emery, 1925b: 15 (diagnosis, genera key, catalogue); Santschi, 1926a: 13 (genera, synopsis); Wheeler, G.C. & Wheeler, J. 1970: 652 (larva diagnosis); Wheeler, G.C. & Wheeler, J. 1976b: 64 (larvae, review and synthesis); Dlussky & Fedoseeva, 1988: 77 (synoptic classification); Hölldobler & Wilson, 1990: 18 (synoptic classification); Brandão, 1991: 393 (*Neotropical fauna*, synoptic classification); Bolton, 1994: 50 (synoptic classification); Bolton, 1995a: 1039 (census); Bolton, 1995b: 9, 14 (catalogue); Bolton, 2003: 22, 100 (diagnosis, synopsis); LaPolla, Brady & Shattuck, 2010a: 118 (*Prenolepis* genus group revision, phylogeny, key to genera); LaPolla & Dlussky, 2010: 258 (*Prenolepis* genus group fossils); LaPolla, *et al.* 2012: 203 (*Prenolepis* genus group, key to genera); LaPolla & Fisher, 2014b: 39 (*Prenolepis* genus group, key to genera); Blaimer, Brady, *et al.* 2015: 6 (phylogeny, reclassification, synopsis); Ward, Blaimer & Fisher, 2016: 348 (phylogeny, reclassification, synopsis); Fernández & Ortiz-Sepúlveda, 2019: 730.

#### **PLATYTHYREINI** [tribe of Ponerinae]

**Platythyrei** Emery, 1901a: 36. Type-genus: *Platythyrea* Roger, 1863a: 172.

### **Taxonomic history**

Platythyreini as tribe of Ponerinae: Emery, 1901a: 36 [Platythyrei]; Emery, 1911d: 28 [Platythyreini]; Santschi, 1914b: 46 [Platythyreini]; Wheeler, W.M. 1915h: 36; Arnold, 1915: 22; Forel, 1917: 237; Wheeler, W.M. 1922a: 638, 641; Chapman & Capco, 1951: 47; Kempf, 1972a: 262; Smith, D.R. 1979: 1335; Dlussky & Fedoseeva, 1988: 79; Hölldobler & Wilson, 1990: 10; Brandão, 1991: 389; Bolton, 1995b: 14; Bolton, 2003: 44, 171; Schmidt, C.A. & Shattuck, 2014: 47; Fernández & Guerrero, 2019: 511.

**Genus of Platythyreini:** *Platythyrea*.

PLECTROCTENINI [junior synonym of Ponerini]

**Plectroctenini** Emery, 1911d: 92. Type-genus: *Plectroctena* Smith, F. 1858b: 101.

### **Taxonomic history**

Plectroctenini as subtribe of Ponerini: Emery, 1911d: 92; Forel, 1917: 238.

Plectroctenini as junior synonym of Ponerini: Bolton, 1994: 164; Bolton, 1995b: 14; Bolton & Brown, 2002: 2; Bolton, 2003: 43, 158; Schmidt, C.A. & Shattuck, 2014: 52.

PODOMYRMINI [junior synonym of Crematogastrini]

**Podomyrmini** Emery, 1924d: 236. Type-genus: *Podomyrma* Smith, F. 1859a: 145.

### **Taxonomic history**

Podomyrmini as subtribe of Myrmicinae, Myrmecini: Emery, 1924d: 236.

Podomyrmini as tribe of Myrmicinae: Dlussky & Fedoseeva, 1988: 79.

Podomyrmini as junior synonym of Formicoxenini: Bolton, 1994: 105; Bolton, 1995b: 12; Bolton, 2003: 68, 243.

Podomyrmini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

**POGONOMYRMECINI** [tribe of Myrmicinae]

Pogonomyrmecini Ward, *et al.* 2015: 76. Type-genus: *Pogonomyrmex* Mayr, 1868a: 169.

### **Taxonomic history**

Pogonomyrmecini as tribe of Myrmicinae: Ward, *et al.* 2015: 76.

**Genera of Pogonomyrmecini:** *Hylomyrma*, *Patagonomyrmex*, *Pogonomyrmex*.

**Pogonomyrmecini references:** Fernández & Serna, 2019: 793 (Colombia fauna).

POLYRHACHIDINI [junior synonym of Camponotini]

**Polyrhachidini** Ashmead, 1905b: 384. Type-genus: *Polyrhachis* Smith, F. 1857a: 58.

### **Taxonomic history**

Polyrhachidini as tribe of Camponotinae: Ashmead, 1905b: 384.

Polyrhachidini as junior synonym of Camponotini: Bolton, 1994: 50; Bolton, 1995b: 9; Bolton, 2003: 26, 111; Ward, Blaimer & Fisher, 2016: 345.

**PONERINAE** [subfamily of Formicidae]

**Ponerites** Lepeletier de Saint-Fargeau, 1835: 185 [as family-group name (Heterogynides, tribu Ponerites)]. Type-genus: *Ponera* Latreille, 1804: 179.

### **Taxonomic history**

Ponerinae as family: Smith, F. 1851: 6 [Poneridae]; Smith, F. 1858b: 76 [Poneridae]; Smith, F. 1861b: 44 [Poneridae]; Smith, F. 1871a: 320 [Poneridae]; André, 1882a: 125, 227 [Poneridae]; White, W.F. 1884: 258 [Poneridae]; Cresson, 1887: 93 [Poneridae]; Emery, 1894g: 379 [Poneridae]; Saunders, 1896: 18 [Poneridae]; Ashmead, 1905b: 382 [Poneridae]; Novák & Sadil, 1941: 70 [Poneridae]; Bernard, 1951: 1042 [Poneridae]; Bernard, 1953b: 185 [Poneridae].

Ponerinae as tribe of Formicidae: André, 1874: 170 [Poneridae].

Ponerinae as subfamily of Poneridae: Ashmead, 1905b: 382 [Ponerinae].

Ponerinae as subfamily of Formicidae: Mayr, 1855: 289, 386 [Formicina, Poneridae]; Nylander, 1856b: 53 [Ponerineae]; Smith, F. 1857a: 64 [Poneridae]; Mayr, 1861: 21, 28 [Formicidae, Poneridae]; Mayr, 1862: 712 [Poneridae]; Smith, F. 1862b: 31 [Poneridae]; Mayr, 1865: 11 [Poneridae]; Mayr, 1868b: 24 [Poneridae]; Forel, 1870: 307 [Poneridae]; Dours, 1873: 167 [Poneridae]; Forel, 1874: 21, 62 [Formicariae, Poneridae]; Emery, 1875b: 467 [Poneridei]; Emery, 1877a: 70 [Poneridae]; Forel, 1878: 366 [Poneridae]; Emery & Forel, 1879a: 455 [Poneridae]; André, 1881b: 64 [Poneridae]; Emery, 1887b: 427 [Poneridae]; Nasonov, 1889: 27 [Poneridae]; Forel, 1890a: lxxviii [Ponerides]; Forel, 1891b: 103 [Poneridae]; Forel, 1892j: 220 [Poneridae]; Dalla Torre, 1893: 13 [Ponerinae]; Forel, 1893a: 162 [Ponerinae]; Forel, 1893g: 353 [Poneridae]; Forel, 1895b: 111 [Poneridae]; Emery, 1895c: 261 [Ponerini]; Emery, 1895j: 766 [Ponerini]; Emery, 1896e: 176 [Ponerinae]; Mayr, 1897: 422 [Ponerini]; Forel, 1899c: 2 [Ponerinae]; Sharp, 1899: 170 [Ponerides]; Forel, 1900d: 303; Emery, 1901a: 36; Bingham, 1903: 23 [Ponerinae]; Ruzsky, 1905b: 174; Emery, 1909c: 355 [Ponerinae]; Forel, 1908e: 64 [Poneridae]; Santschi, 1910e: 648 [Ponerines]; Wheeler, W.M. 1910g: 134 [Ponerinae]; Emery, 1911d: 2 [Ponerinae]; Santschi, 1913h: 33 [Ponerinae]; Santschi, 1914b: 46 [Ponerinae]; Donisthorpe, 1915d: 65; Wheeler, 1915g: 805 [Ponerides]; Wheeler, W.M. 1915h: 25; Arnold, 1915: 9; Emery, 1916b: 94 [Ponerinae]; Escherich, 1917: 2 [Ponerini]; Forel, 1917: 235 [Ponerinae]; Bondroit, 1918: 78 [Poneritae]; Wheeler, W.M. 1920: 53 [Ponerinae]; Wheeler, W.M. 1922a: 56, 640 [Ponerinae]; Borgmeier, 1923: 37; Karavaiev, 1934: 49; Chapman & Capco, 1951: 22; Clark, 1951: 15; Smith, M.R. 1951a: 782; Brown, 1954e: 24; Kempf, 1972a: 262; Wheeler, G.C. & Wheeler, J. 1972a: 39; Brown, 1973b: 165; Baroni Urbani, 1984: 75; Bolton, 1995b: 14; Bolton, 2003: 42, 156; Ouellette, *et al.* 2006: 365; Brady, *et al.* 2006: 18173; Moreau, *et al.* 2006: 102; Ward, 2007a: 555; Schmidt, C.A. & Shattuck, 2014: 46; Boudinot, 2015: 47.

[Note: Ponerinae *sensu* Perkovsky, 2016: 115, is anachronistic, containing members of four poneroid subfamilies.]

**Tribes of Ponerinae:** Platythyreini, Ponerini.

**Genera incertae sedis in Ponerinae:** \**Afropone*, \**Eogorgites*, \**Eoponerites*, \**Furcisutura*, \**Longicapitia*.

**Ponerinae references, world:** Smith, F. 1858b: 76 (diagnosis); Mayr, 1862: 712 (genera key); Mayr, 1865: 11 (Odontomachidae, Poneridae diagnoses), Mayr, 1867a: 79, 81 (Odontomachidae, Poneridae diagnoses); Forel, 1878: 366 (diagnosis); Dalla Torre, 1893: 13 (catalogue); Emery, 1895j: 766 (diagnosis); Emery, 1896e: 176 (genera key); Emery, 1899c: 4 (larvae); Handlirsch, 1907: 879 (\*fossil taxa catalogue); Wheeler, W.M. 1910g: 134 (diagnosis); Emery, 1911d: 3 (diagnosis, tribes key); Forel, 1917: 235 (synoptic classification); Forel, 1921c: 133 (diagnosis); Wheeler, W.M. 1922a: 56, 636 (diagnosis, tribes key); Brown & Nutting, 1950: 124 (venation, phylogeny); Brown, 1954e: 24 (phylogeny); Eisner, 1957: 475 (proventriculus morphology); Bernard, 1967: 79 (diagnosis); Gotwald, 1969: 25 (mouthparts morphology); Wheeler, G.C. & Wheeler, J. 1972a: 39 (diagnosis); Brown, 1973b: 165 (genera, distribution); Wheeler, G.C. & Wheeler, J. 1976b: 48 (larvae, review and synthesis); Snelling, R.R. 1981: 387 (synoptic classification); Taylor & Brown, 1985: 18 (Australia catalogue); Wheeler, G.C. & Wheeler, J. 1985: 256 (synoptic classification); Billen, 1986: 168 (Dufour's gland); Fanfani & Dazzini Valcurone, 1986: 115 (exocrine glands synopsis); Dlussky & Fedoseeva, 1988: 78 (synoptic classification); Hölldobler & Wilson, 1990: 9 (synoptic classification, genera keys); Baroni Urbani, *et al.* 1992: 317 (phylogeny); Bolton, 1994: 153 (diagnosis, synoptic classification, genera keys); Bolton, 1995a: 1042 (census); Bolton, 1995b: 14 (catalogue); Grimaldi, *et al.* 1997: 20 (\*Cretaceous genera); Dlussky & Rasnitsyn, 2002: 422 (diagnosis for wingless fossils); Bolton, 2003: 42, 156 (diagnosis, synopsis); Ouellette, *et al.* 2006: 359 (phylogeny); Brady, *et al.* 2006: 18173 (phylogeny); Moreau, *et al.* 2006: 102 (phylogeny); Ward, 2007a: 555 (classification); Keller, 2011: 1 (morphology, phylogeny); Schmidt, C.A. 2013: 201 (genera, molecular phylogeny);

Schmidt, C.A. & Shattuck, 2014: 18, 24, 36 (**revision of world genera, keys to New World, Afrotropical and Malagasy, Eurasian, and Australian**); Boudinot, 2015: 47 (male diagnosis).  
**Ponerinae: regional and national faunas with keys:** Mayr, 1861: 28 (Europe); Mayr, 1868b: 69 (\*Baltic Amber); André, 1874: 170 (Europe); Forel, 1874: 29 (Switzerland); André, 1882b: 227 (Europe and Algeria); Cresson, 1887: 97 (U.S.A., genera); Provancher, 1887: 238 (Canada); Nasonov, 1889: 54 (Russia); Forel, 1891b: 9 (Madagascar genera); Forel, 1900c: 52 (India and Sri Lanka); Bingham, 1903: 23 (India, Sri Lanka and Burma); Ruzsky, 1905b: 108 (Russian Empire); Emery, 1909c: 355 (Palearctic); Wheeler, W.M. 1910g: 557 (North America genera); Bondroit, 1910: 489 (Belgium); Stitz, 1914: 54 (Central Europe); Gallardo, 1915: 31 (Argentina genera); Forel, 1915d: 6 (Switzerland); Arnold, 1915: 10 (South Africa); Donisthorpe, 1915d: 65 (Britain); Emery, 1916b: 98 (Italy); Wheeler, W.M. 1916m: 580 (U.S.A., Connecticut); Bondroit, 1918: 79 (France and Belgium); Gallardo, 1918b: 4 (Argentina); Soudek, 1922: 18 (Czechoslovakia); Stärcke, 1926: 82 (Netherlands); Donisthorpe, 1927b: 68 (Britain); Menozzi & Russo, 1930: 169 (Dominican Republic); Arnol'di, 1933b: 596 (Russia); Karavaiev, 1934: 50 (Ukraine); Smith, M.R. 1937: 823 (Puerto Rico); Stitz, 1939: 58 (Germany); Smith, M.R. 1943f: 278 (U.S.A. males); Buren, 1944a: 279 (U.S.A., Iowa); Smith, M.R. 1947f: 530 (U.S.A. genera); Creighton, 1950a: 31 (Nearctic); Kusnezov, 1956: 11 (Argentina); Brown, 1958h: 11 (New Zealand); Gregg, 1963: 280 (U.S.A., Colorado); Bernard, 1967: 80 (Western Europe); Wilson & Taylor, 1967: 10 (Polynesia); Kempf, 1972a: 262 (Neotropical synoptic classification); Bolton, 1973a: 323 (West Africa genera); Bolton & Collingwood, 1975: 3 (Britain); van Boven, 1977: 66 (Belgium); Kutter, 1977c: 21 (Switzerland); Arnol'di & Dlussky, 1978: 522 (former European U.S.S.R.); Collingwood, 1978: 74 (Iberian Peninsula); Collingwood, 1979: 29 (Fennoscandia and Denmark); Greenslade, 1979: 14 (South Australia genera); Francoeur, 1979: 30 (Canada, Québec); Schembri & Collingwood, 1981: 417 (Malta); Allred, 1982: 438 (U.S.A., Utah); Baroni Urbani, 1984: 75 (Neotropical genera); Collingwood, 1985: 236 (Saudi Arabia); Wheeler, G.C. & Wheeler, J. 1986g: 17 (U.S.A., Nevada); Agosti & Collingwood, 1987b: 264 (Balkans); Ogata, 1987: 101 (Japan genera); Morisita, *et al.* 1989: 8 (Japan); Dlussky, *et al.* 1990: 173 (Turkmenistan); Kupyanskaya, 1990: 85 (Far Eastern Russia); Atanasov & Dlussky, 1992: 51 (Bulgaria); Lattke, in Jaffe, 1993: 166 (Neotropical genera); Arakelian, 1994: 10 (Armenia); Wu, J. & Wang, 1995: 31 (China genera); Collingwood & Agosti, 1996: 308 (Saudi Arabia); Seifert, 1996b: 107 (Central Europe); Collingwood & Prince, 1998: 10 (Portugal); Kim, *et al.* 1998: 145 (Korea); Shattuck, 1999: 52, 179 (Australia genera synopsis); Andersen, 2000: 19 (northern Australia genera); Zhou, 2001b: 22 (China, Guangxi); Czechowski, *et al.* 2002: 133 (Poland); Aktaş & Radchenko, 2002: 53 (Turkey genera); Yoshimura & Onoyama, 2002: 436 (Japan genera, males); Mackay & Mackay, 2002: 27 (U.S.A., New Mexico); Csösz, 2003: 147 (Carpathian Basin); Palacio & Fernández, in Fernández, 2003d: 256 (Neotropical genera); Radchenko, 2005b: 184 (North Korea); Covert, 2005: 23 (U.S.A., Ohio); Yoshimura & Fisher, 2007: 27 (Malagasy genera, males); Clouse, 2007b: 190 (Micronesia); Seifert, 2007: 108 (North and Central Europe); Bolton & Fisher, 2008c: 32 (Afrotropical genera); Fernández & Arias-Penna, 2008: 32 (Neotropical genera); Dlussky, 2009: 1071 (Eocene amber); Terayama, 2009: 101 (Taiwan genera); Heterick, 2009: 34 (south-western Australia genera); Boer, 2010: 68 (Benelux); Czechowski, *et al.* 2012: 340 (Poland); General & Alpert, 2012: 76 (Philippines genera key); Dlussky & Perfilieva, 2014: 433 (British Eocene species key); Eguchi, *et al.* 2014: 4 (Vietnam genera key); Baccaro, *et al.* 2015: 108, 310 (Brazil genera key, text); Fernández & Lattke, in Delabie, Feitosa, *et al.* 2015: 85 (poneromorph phylogeny, systematics); Lattke, in Delabie, Feitosa, *et al.* 2015: 55 (Brazil genera, phylogeny, taxonomy); Fisher & Bolton, 2016: 52 (diagnosis); Fernández & Guerrero, 2019: 509 (Colombia).

**PONERINI** [tribe of Ponerinae]

**Ponerites** Lepeletier de Saint-Fargeau, 1835: 185 [as family-group name]. Type-genus: *Ponera* Latreille, 1804: 179.

## **Taxonomic history**

Ponerini as tribe of Poneridae: Forel, 1895b: 111 [Poneri].

Ponerini as tribe of Ponerinae: Forel, 1893a: 163 [Ponerii]; Emery, 1895c: 261 [Ponerii]; Emery, 1895j: 767 [Ponerii]; Forel, 1895b: 111 [Poneri]; Forel, 1899c: 2 [Ponerii]; Forel, 1900d: 303 [Ponerii]; Emery, 1901a: 36 [Ponerii]; Forel, 1901b: 6 [Ponerii]; Ruzsky, 1905b: 174 [Ponerii]; Ashmead, 1905b: 382 [Ponerini]; Forel, 1908e: 64 [Ponerii]; Emery, 1909c: 362 [Ponerii]; Wheeler, W.M. 1910g: 135 [Ponerii]; Emery, 1911d: 54; Santschi, 1914b: 46 [Ponerini]; Wheeler, W.M. 1915h: 27; Arnold, 1915: 36; Emery, 1916b: 104 [Ponerini]; Forel, 1917: 237; Gallardo, 1918b: 7; Wheeler, W.M. 1922a: 638, 646 [Ponerini]; Chapman & Capco, 1951: 17; Kempf, 1972a: 262; Smith, D.R. 1979: 1339; Dlussky & Fedoseeva, 1988: 78; Hölldobler & Wilson, 1990: 10; Brandão, 1991: 389; Bolton, 2003: 43, 158; Schmidt, C.A. & Shattuck, 2014: 52.

Ponerini as senior synonym of \*Archiponerini: Bolton, 1994: 164; Bolton, 1995b: 9; Bolton, 2003: 43, 159; Schmidt, C.A. & Shattuck, 2014: 52.

Ponerini as senior synonym of Centromyrmecini: Brown, 1953c: 9; Bolton, 1995b: 10; Bolton, 2003: 158; Schmidt, C.A. & Shattuck, 2014: 52.

Ponerini as senior synonym of Dorylozelini: Taylor, 1969: 132; Bolton, 1995b: 11; Bolton, 2003: 158; Schmidt, C.A. & Shattuck, 2014: 52.

Ponerini as senior synonym of Drepanognathini: Bolton, 1994: 164; Bolton, 1995b: 11; Bolton, 2003: 43, 158; Schmidt, C.A. & Shattuck, 2014: 52.

Ponerini as senior synonym of Euponerinae: Bolton, 1994: 164; Bolton, 1995b: 11; Bolton, 2003: 43, 158; Schmidt, C.A. & Shattuck, 2014: 52.

Ponerini as senior synonym of Harpegnathini: Bolton, 1994: 164; Bolton, 1995b: 12; Bolton, 2003: 158; Schmidt, C.A. & Shattuck, 2014: 52.

Ponerini as senior synonym of Leptogenyini: Emery, 1895c: 262 (footnote); Brown, 1963: 3; Bolton, 1994: 164; Bolton, 1995b: 12; Bolton, 2003: 43, 158; Schmidt, C.A. & Shattuck, 2014: 52.

Ponerini as senior synonym of Odontomachini: Bolton, 1994: 164; Bolton, 1995b: 14; Bolton, 2003: 158; Schmidt, C.A. & Shattuck, 2014: 52.

Ponerini as senior synonym of Pachycondyliini: Bolton, 1994: 164; Bolton, 1995b: 14; Bolton, 2003: 43, 158; Schmidt, C.A. & Shattuck, 2014: 52.

Ponerini as senior synonym of Plectroctenini: Bolton, 1994: 164; Bolton, 1995b: 14; Bolton & Brown, 2002: 2; Bolton, 2003: 43, 158; Schmidt, C.A. & Shattuck, 2014: 52.

Ponerini as senior synonym of Pseudoneoponerini: Bolton, 2003: 43, 159; Schmidt, C.A. & Shattuck, 2014: 52.

Ponerini as senior synonym of Thaumatomyrmecini: Schmidt, C.A. & Shattuck, 2014: 53.

**Genera of Ponerini** (by genus group, after Schmidt, C.A. & Shattuck, 2014: 16, 17):

*Harpegnathos* genus group: *Harpegnathos*.

*Hypoponera* genus group: *Hypoponera*.

*Odontomachus* genus group: *Anochetus*, *Asphinctopone*, *Bothroponera*, *Brachyponera*, *Buniapone*, *Euponera*, *Fisheropone*, *Hagensia*, *Leptogenys*, *Megaponera*, *Mesoponera*, *Myopias*, *Odontomachus*, *Odontoponera*, *Ophthalmopone*, *Paltothyreus*, *Phrynoponera*, *Promyopias*, *Pseudoneoponera*, *Streblognathus*.

*Pachycondyla* genus group: *Belonopelta*, *Dinoponera*, *Mayaponera*, *Neoponera*, *Pachycondyla*, *Simopelta*, *Thaumatomyrmex*.

*Plectroctena* genus group: *Boloponera*, *Centromyrmex*, *Dolioponera*, *Feroponera*, *Loboponera*, *Plectroctena*, *Psalidomyrmex*.

*Ponera* genus group: *Austroponera*, *Cryptopone*, *Diacamma*, *Ectomomyrmex*, *Emeryopone*, *Iroponera*, *Parvaponera*, *Ponera*, *Pseudoponera*, *Rasopone*,

**Genera incertae sedis in Ponerini:** \**Archiponera*, \**Cephalopone*, \**Cyrtopone*, \**Messelepone*, \**Ponerites*, \**Protopone*, \**Taphopone*.

**PONERITI** [*Nomen nudum*]

**Poneriti** Brandão, 1991: 389 [as subtribe of Ponerini]. *Nomen nudum*; proposed without diagnosis.

**PRENOLEPIDINI** [junior synonym of Lasiini]

**Prenolepidii** Forel, 1912i: 89. Type-genus: *Prenolepis* Mayr, 1861: 52.

**Taxonomic history**

Prenolepidini as tribe of Camponotinae: Forel, 1912i: 89 [Prenolepidii]; Santschi, 1914b: 127 [Prenolepidii]; Wheeler, W.M. 1915h: 100 [Prenolepidini]; Emery, 1916b: 237 [Prenolepidini]; Forel, 1917: 249 [Prenolepidini]; Arnold, 1922: 605 [Prenolepidini].

Prenolepidini as tribe of Formicinae: Bondroit, 1918: 18 [Prenolepidini]; Wheeler, W.M. 1922a: 697 [Prenolepidini]; Chapman & Capco, 1951: 214; Hölldobler & Wilson, 1990: 18.

Prenolepidini as junior synonym of Plagiolepidini: Bolton, 2003: 22, 100.

Prenolepidini as junior synonym of Lasiini: Emery, 1925b: 212; Bolton, 1994: 50; Bolton, 1995b: 15; Blaimer, Brady, *et al.* 2015: 6 [by implication]; Ward, Blaimer & Fisher, 2016: 347.

**PRIONOMYRMECINI** [tribe of Myrmeciinae]

**Prionomyrmecini** Wheeler, W.M. 1915h: 25. Type-genus: \**Prionomyrmex* Mayr, 1868b: 77.

**Taxonomic history**

Prionomyrmecini as tribe of Ponerinae: Wheeler, W.M. 1915h: 25 [Prionomyrmecini].

Prionomyrmecini as subfamily of Formicidae: Baroni Urbani, 2000: 479 [Prionomyrmecinae]; Baroni Urbani, 2005: 590 [Prionomyrmecinae].

Prionomyrmecini as tribe of Myrmeciinae: Brown, 1954e: 22 [Prionomyrmecini]; Baroni Urbani, *et al.* 1992: 303; Bolton, 1994: 73 [Prionomyrmecini]; Bolton, 1995b: 15; Ward & Brady, 2003: 377; Bolton, 2003: 30, 132.

Prionomyrmecini as senior synonym of Nothomyrmecini: Baroni Urbani, 2000: 479 [Nothomyrmeciinae]; Bolton, 2003: 133; Ward & Brady, 2003: 375.

**Genera of Prionomyrmecini:** *Nothomyrmecia*, \**Prionomyrmex*.

**PROATTINI** [junior synonym of Crematogastrini]

**Proattini** Forel, 1917: 232. Type-genus: *Proatta* Forel, 1912m: 768.

**Taxonomic history**

Proattini as tribe of Myrmicinae: Forel, 1917: 232; Wheeler, W.M. 1922a: 668.

Proattini as subtribe of Attini: Emery, 1924d: 333.

Proattini as junior synonym of Stenammini: Bolton, 1994: 106; Bolton, 1995b: 15; Bolton, 2003: 58, 202.

Proattini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

**PROBOLOMYRMECINI** [tribe of Proceratiinae]

**Probolomyrmecinae** Perrault, 2000: 271. Type-genus: *Probolomyrmex* Mayr, 1901b: 2.

**Taxonomic history**

Probolomyrmecini as subfamily of Formicidae: Perrault, 2000: 271 [Probolomyrmecinae].

Probolomyrmecini as tribe of Proceratiinae: Bolton, 2003: 49, 180.

**Genus of Probolomyrmecini:** *Probolomyrmex*.

**PROCAMPONOTINAE** [unavailable name]

Procampotoninae Forel, 1912i: 88 [as "section" of Camponotinae]. Unavailable name; not based on genus rank taxon.

[Note: section designated to include tribe Myrmoteratini. Contained material referable to Myrmoteratini (Bolton, 1994: 51, Bolton, 1995b: 15, Bolton, 2003: 266).]

### **PROCERATIINAE** [subfamily of Formicidae]

**Proceratii** Emery, 1895j: 765. Type-genus: *Proceratium* Roger, 1863a: 171.

#### **Taxonomic history**

Proceratiinae as subfamily of Formicidae: Bolton, 2003: 48, 178; Ouellette, *et al.* 2006: 365; Brady, *et al.* 2006: 18173; Moreau, *et al.* 2006: 102; Ward, 2007a: 555; Boudinot, 2015: 48.

**Tribes of Proceratiinae:** Probolomyrmecini, Proceratiini.

**Proceratiinae references:** Bolton, 2003: 48, 178 (diagnosis, synopsis); Ouellette, *et al.* 2006: 359 (phylogeny); Brady, *et al.* 2006: 18173 (phylogeny); Moreau, *et al.* 2006: 102 (phylogeny); Ward, 2007a: 555 (classification); Fernández & Arias-Penna, 2008: 31 (Neotropical genera key); Yoshimura & Fisher, 2009: 8 (Malagasy males diagnosis, key); Terayama, 2009: 96 (Taiwan genera key); Keller, 2011: 1 (morphology, phylogeny); Boudinot, 2015: 48 (male diagnosis); Feitosa, 2015b, in Delabie, Feitosa, *et al.* 2015: 75 (phylogeny, taxonomy); Fisher & Bolton, 2016: 54 (diagnosis); Escárraga, Longino & Sosa-Calvo, 2019: 681 (Colombia).

### **PROCERATIINI** [tribe of Proceratiinae]

**Proceratii** Emery, 1895j: 765. Type-genus: *Proceratium* Roger, 1863a: 171.

#### **Taxonomic history**

Proceratiini as tribe of Dorylinae: Emery, 1895j: 765 [Proceratii].

Proceratiini as junior synonym of Ectatommini: Brown, 1958g: 176; Taylor, 1980c: 354; Dlussky & Fedoseeva, 1988: 78; Hölldobler & Wilson, 1990: 10; Bolton, 1994: 164.

Proceratiini as tribe of Ponerinae: Emery, 1901a: 36 [Proceratii]; Ashmead, 1905b: 382 [Proceratiini]; Emery, 1909c: 358 [Proceratii]; Wheeler, W.M. 1910g: 136 [Proceratii]; Emery, 1911d: 49 [Proceratiini]; Wheeler, W.M. 1915h: 27; Arnold, 1915: 33; Emery, 1916b: 102 [Proceratiini]; Forel, 1917: 236; Wheeler, W.M. 1922a: 644 [Proceratiini]; Chapman & Capco, 1951: 76; Kusnezov, 1964: 51; Wheeler, G.C. & Wheeler, J. 1976b: 49; Wheeler, G.C. & Wheeler, J. 1985: 256; Jaffe, 1993: 8; Lattke, 1994: 112; Bolton, 1995b: 15.

Proceratiini as tribe of Proceratiinae: Bolton, 2003: 49, 178.

Proceratiini as senior synonym of Discothyreinae: Lattke, 1994: 112 [by implication as type-genus included in Proceratiini]; Bolton, 1995b: 15; Bolton, 2003: 49, 178.

**Genera of Proceratiini:** \**Bradoponera*, *Discothyrea*, *Proceratium*.

**Proceratiini references:** Wheeler, W.M. 1910g: 135 (diagnosis); Emery, 1911d: 49 (diagnosis, genera key); Arnold, 1915: 33 (diagnosis, South Africa genera key); Forel, 1917: 236 (synoptic classification); Wheeler, W.M. 1922a: 644, 761 (genera key, Afrotropical catalogue); Leston, 1971: 119 (Ghana); Wheeler, G.C. & Wheeler, J. 1976b: 49 (larvae, review and synthesis); Kugler, C. 1991: 158 (sting structure); Lattke, 1994: 112 (phylogeny); Bolton, 1995b: 15 (catalogue); Bolton, 2003: 49, 178 (diagnosis, synopsis); General & Alpert, 2012: 77 (Philippines genera key); Eguchi, *et al.* 2014: 5 (Vietnam genera key); Baccaro, *et al.* 2015: 113, 342 (Brazil genera key, text); Escárraga, Longino & Sosa-Calvo, 2019: 684 (Colombia).

### **PRODOLICHODERINAE** [unavailable name]

Prodolichoderinae Forel, 1917: 247 [as "section" of Dolichoderinae]. Unavailable name; not based on genus rank taxon.

[Note: section designated to include tribes Aneuretini, Dolichoderini and Leptomyrmecini. Contained material referable to Aneuretinae and Dolichoderinae (Bolton, 1994: 15, 27, Bolton, 1995b: 15, Bolton, 2003: 266).]

### **PRODORYLINAE** [unavailable name]

Prodorylinae Emery, 1909c: 355 [as "group" of Ponerinae]; Emery, 1911d: 5 [as "sectio" of Ponerinae]. Unavailable name; not based on genus rank taxon: Donisthorpe, 1922: xlv (in text). [Note (i): group/"sectio" designated to include tribe Cerapachyini. Contained material referable to Cerapachyinae (Bolton, 1990a: 66, Bolton, 1990c: 1356, Bolton, 1995b: 15, Bolton, 2003: 266). Referable to Dorylinae (Borowiec, M.L. 2016: 14).]

[Note (ii): as well as Prodorylinae being unavailable, it is apparent that from the outset it was identical with Cerapachyini.]

### PROMYRMICINAE [unavailable name]

Promyrmicinae Forel, 1911h: 446 [as "section" of Ponerinae]. Unavailable name; not based on genus rank taxon.

[Note (i): section originally designated to include tribe Metaponini. Contained material referable to Metaponini (Bolton, 1994: 106, Bolton, 1995b: 15, Bolton, 2003: 266).]

[Note (ii): **Promyrmicinae**: Forel, 1917: 240, Emery, 1912b: 96 (in text), Emery, 1914a: 34, and Emery, 1921f: 19; unavailable name; not based on genus rank taxon (expansion of the above unavailable name to include tribes Metaponini and Pseudomyrmecini).]

[Note (iii): **Promyrmecidae**: Bernard, 1951: 1053, Bernard, 1953a: 136; unavailable name; not based on genus rank taxon (incorrectly treated as family, including only tribe Pseudomyrmecini).]

### PROPONERINAE [unavailable name]

Proponerinae Emery, 1909c: 355 [as "group" of Ponerinae]; Emery, 1911d: 16 [as "sectio" of Ponerinae]. Unavailable name; not based on genus rank taxon.

[Note: group/"sectio" designated to include tribes Amblyoponini and Proceratiini. Contained material referable to Ponerinae (Bolton, 1994: 164, Bolton, 1995b: 15). Referable to Amblyoponinae and Proceratiinae (Bolton, 2003: 266).]

### PSEUDOMYRMECINAE [subfamily of Formicidae]

**Pseudomyrmecinae** Smith, M.R. 1952a: 98. Type-genus: *Pseudomyrmex* Lund, 1831b: 106.

#### Taxonomic history

Pseudomyrmecinae as family: Bernard, 1953b: 221 [Pseudomyrmecidae].

Pseudomyrmecinae as subfamily of Formicidae: Smith, M.R. 1952a: 98; Brown, 1954e: 23; Kempf, 1972a: 265; Smith, D.R. 1979: 1345; Taylor & Brown, 1985: 17; Dlussky & Fedoseeva, 1988: 78; Hölldobler & Wilson, 1990: 12; Ward, 1990: 449; Bolton, 1995b: 15; subsequent authors; Bolton, 2003: 30, 134; Brady, *et al.* 2006: 18173; Moreau, *et al.* 2006: 102; Ward, 2007a: 556; Boudinot, 2015: 49; Perkovsky, 2016: 114.

Pseudomyrmecinae as senior synonym of Leptaleinae: Smith, M.R. 1958c: 112; Bolton, 1995b: 12; Bolton, 2003: 134.

Pseudomyrmecinae as senior synonym of Pseudomyrmidae: Ward, 1990: 459; Bolton, 1995b: 15; Bolton, 2003: 134.

[Note: Pseudomyrmecinae retains priority over Leptaleinae and Pseudomyrmidae under Article 40.2 of the International Code of Zoological Nomenclature (4th Edition), 1999: 46.]

**Genera of Pseudomyrmecinae:** *Myrcidris*, *Pseudomyrmex*, *Tetraoponera*.

**Pseudomyrmecinae references:** Forel, 1893a: 164 (diagnosis); Emery, 1895j: 768 (diagnosis); Wheeler, W.M. 1910g: 139 (diagnosis); Emery, 1914a: 34 (diagnosis, in key); Emery, 1921f: 21 (diagnosis, catalogue); Wheeler, W.M. 1922a: 103, 654, 795, 1014 (diagnosis, genera key, Afrotropical, Malagasy catalogues); Creighton, 1950a: 77 (Nearctic); Brown & Nutting, 1950: 126 (venation, phylogeny); Brown, 1954e: 23 (phylogeny); Eisner, 1957: 452 (proventriculus morphology); Gotwald, 1969: 116 (mouthparts morphology); Wheeler, G.C. & Wheeler, J. 1972a: 39 (diagnosis); Bolton, 1973a: 329 (West Africa, genera); Brown, 1973b: 166 (genera, distribution); Wheeler, G.C. & Wheeler, J. 1976b: 52 (larvae, review and synthesis); Smith, D.R. 1979: 1345 (North America catalogue); Snelling, R.R. 1981: 393 (synoptic classification); Taylor & Brown, 1985: 17 (Australia catalogue); Wheeler, G.C. & Wheeler, J. 1985: 257 (synoptic classification); Dlussky & Fedoseeva, 1988: 77 (synoptic classification); Ward, 1990: 449 (diagnosis, subfamily revision, genera key, phylogeny); Hölldobler & Wilson, 1990: 12 (synoptic

classification); Baroni Urbani, *et al.* 1992: 317 (phylogeny); Jaffe, 1993: 13 (Neotropical, synoptic classification); Lattke, in Jaffe, 1993: 170 (Neotropical genera); Bolton, 1994: 184 (diagnosis, synoptic classification, genera key); Bolton, 1995a: 1042 (census); Bolton, 1995b: 15 (catalogue); Shattuck, 1999: 208 (Australia, synopsis); Baroni Urbani, 2000: 480 (phylogeny); Bolton, 2003: 30, 134 (diagnosis, synopsis); Ward & Downie, 2005: 310 (evolution, phylogeny); Brady, *et al.* 2006: 18173 (phylogeny); Moreau, *et al.* 2006: 102 (phylogeny); Keller, 2011: 1 (morphology, phylogeny); Boudinot, 2015: 49 (male diagnosis); Baccaro, *et al.* 2015: 114, 350 (Brazil genera key, text); Fisher & Bolton, 2016: 56 (diagnosis).

**PSEUDOMYRMIDAE** [junior synonym of Pseudomyrmecinae]

**Pseudomyrmidae** Forel, 1885a: 377. Type-genus: *Pseudomyrma* Guérin-Méneville, 1844a: 427 (junior synonym of *Pseudomyrmex* Lund, 1831b: 106).

**Taxonomic history**

Pseudomyrmidae as tribe of Myrmicinae: Forel, 1885a: 377 [Pseudomyrmidae]; Forel, 1893a: 164 [Pseudomyrmii]; Forel, 1895b: 121 [Pseudomyrmii]; Emery, 1895c: 269 [Pseudomyrmii]; Emery, 1895j: 768 [Pseudomyrmii (subfamily spelled Myrmicini)]; Forel, 1899c: 86 [Pseudomyrmii]; Forel, 1908e: 65 [Pseudomyrmii]; Wheeler, W.M. 1910g: 139 [Pseudomyrmii]; Forel, 1899c: 86 [Pseudomyrmini]; Sharp, 1899: 168 [Pseudomyrmini]; Emery, 1914a: 34 [Pseudomyrmini]; Santschi, 1914b: 70 [Pseudomyrmii]; Wheeler, W.M. 1915h: 40 [Pseudomyrmini]; Arnold, 1916: 173 [Pseudomyrmini]; Forel, 1917: 240 [Pseudomyrmini]; Emery, 1921f: 21 [Pseudomyrmini].

Pseudomyrmidae as subfamily of Myrmicidae: Emery, 1894g: 383 [Pseudomyrminae]; Ashmead, 1905b: 383 [Pseudomyrminae].

Pseudomyrmidae as subfamily of Formicidae: Emery, 1899c: 8 [Pseudomyrminae]; Wheeler, W.M. 1920: 53 [Pseudomyrminae]; Wheeler, W.M. 1922a: 103, 653 [Pseudomyrminae]; Donisthorpe, 1922: xli [Pseudomyrminae]; Creighton, 1950a: 77 [Pseudomyrminae]; Chapman & Capco, 1951: 78 [Pseudomyrminae].

Pseudomyrmidae as junior synonym of Pseudomyrmecinae: Ward, 1990: 459; Bolton, 1995b: 15; Bolton, 2003: 31, 134.

[Note: Pseudomyrmecinae retains priority over Pseudomyrmidae under Article 40.2 of the International Code of Zoological Nomenclature (4th Edition), 1999: 46.]

**PSEUDONEOPONERINI** [junior synonym of Ponerini]

**Pseudoneoponerini** Chapman & Capco, 1951: 77 (attributed to Donisthorpe). Type-genus: *Pseudoneoponera* Donisthorpe, 1943d: 439.

**Taxonomic history**

Pseudoneoponerini as tribe of Ponerinae: Chapman & Capco, 1951: 77.

Pseudoneoponerini as junior synonym of Ponerini: Bolton, 2003: 43, 159; Schmidt, C.A. & Shattuck, 2014: 52.

**PSEUDOPONERINAE** [*Nomen nudum*]

Pseudoponerinae LaPolla, *et al.* 2013: 614 (in table). *Nomen nudum*; proposed without diagnosis.

**RENEINI** [junior synonym of Amblyoponinae]

**Reneini** Donisthorpe, 1947d: 183. Type-genus: *Renea* Donisthorpe, 1947d: 183 (junior synonym of *Prionopelta* Mayr, 1866a: 503).

**Taxonomic history**

Reneini as tribe of Ponerinae: Donisthorpe, 1947d: 183; Chapman & Capco, 1951: 77.

Reneini as junior synonym of Amblyoponinae: Brown, 1953c: 11; Bolton, 1995b: 9; Bolton, 2003: 42, 153.

### RHAGIOMYRMICINAE [unavailable name]

Rhagiomyrmicinae Forel, 1917: 246 [as "section" of Myrmicinae]. Unavailable name; not based on genus rank taxon.

[Note: section designated to include tribes Cataulacini, Cephalotini [= Cryptocerini] and Dacetini. Contained material referable to Myrmicinae (Bolton, 1994: 106, Bolton, 1995b: 15, Bolton, 2003: 266).]

### SANTSCHIELLINI [tribe of Formicinae]

**Santschiellini** Forel, 1917: 232. Type-genus: *Santschiella* Forel, 1916: 434.

#### Taxonomic history

Santschiellini as tribe of Camponotinae: Forel, 1917: 248.

Santschiellini as junior synonym of Gesomyrmecini: Bolton, 2003: 23, 108.

Santschiellini as tribe of Formicinae: Wheeler, W.M. 1922a: 692; Emery, 1925b: 48; subsequent authors; Dlussky & Fedoseeva, 1988: 77; Hölldobler & Wilson, 1990: 18; Bolton, 1995b: 15; Bolton, 2003: 23, 108; Ward, Blaimer & Fisher, 2016: 349.

**Genus of Santschiellini:** *Santschiella*.

\*SICELOMYRMECINI [junior synonym of Gesomyrmecini]

\***Sicelomyrmecini** Wheeler, W.M. 1929a: 12 (in text). Type-genus: \**Sicelomyrmex* Wheeler, W.M. 1915h: 111.

#### Taxonomic history

\*Sicelomyrmecini as tribe of Formicinae: Wheeler, W.M. 1929a: 12 [\*Sicelomyrmecini]; Brown & Carpenter, 1979: 423 [\*Sicelomyrmecini]; Bolton, 1994: 51; Bolton, 1995b: 15.

\*Sicelomyrmecini as junior synonym of Gesomyrmecini: Bolton, 2003: 23, 108; Ward, Blaimer & Fisher, 2016: 347.

### SOCIALIA [unavailable name]

Socialia White, W.F. 1884: 246 [as family-group name (Heterogyna phalanx Socialia)]. Unavailable name, not based on a genus rank taxon.

[Note: originally designated to include the families Formicidae, Poneridae, and Myrmicidae. Socialia would therefore be equivalent to the modern rank of superfamily, and is synonymous with the modern Formicidae.]

### SODALES [unavailable name]

Sodales Westwood, 1839: 217 [as family-group name (synonymous with Philipona), containing only the family Formicidae]. Unavailable name, not based on a genus rank taxon.

[Note: Westwood refers to the "Sodales (or Philipona K.)" which contains, "the single family Formicidae", which "corresponds with the genus *Formica* of Linnaeus, and the *Heterogyna* of St. Fargeau." Thus Philipona and Sodales are absolute synonyms, and both are junior synonyms of Formicidae.]

SOLENOMYRMINI [junior synonym of Crematogastrini]

**Solenomyrmini** Donisthorpe, 1943g: 726. Type-genus: *Solenomyrma* Karavaiev, 1935a: 103 (junior synonym of *Gauromyrmex* Menozzi, 1933c: 146).

#### Taxonomic history

Solenomyrmini as tribe of Myrmicinae: Donisthorpe, 1943g: 726; Chapman & Capco, 1951: 161.

Solenomyrmini as junior synonym of Formicoxenini: Bolton, 2003: 68, 244.

Solenomyrmini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

### SOLENOPSISINI [tribe of Myrmicinae]

**Solenopsisii** Forel, 1893a: 164. Type-genus: *Solenopsis* Westwood, 1840b: 86.

#### Taxonomic history

Solenopsisini as junior synonym of Myrmicini: Emery, 1895c: 271 (footnote).

Solenopsidini as tribe of Myrmicinae: Forel, 1893a: 164 [Solenopsisii]; Emery, 1895j: 769 [Solenopsidii]; Forel, 1895b: 130 [Solenopsisii]; Forel, 1899c: 79 [Solenopsidii]; Ashmead, 1905b: 383 [Solenopsidini]; Forel, 1908e: 66 [Soelnopsisii]; Wheeler, W.M. 1910g: 140 [Solenopsidii]; Emery, 1913c: 586 (footnote) [Solenopsidini]; Emery, 1914a: 37; Santschi, 1914b: 77 [Solenopsidii]; Wheeler, W.M. 1915h: 46 [Solenopsidiini]; Arnold, 1916: 203; Emery, 1916b: 159 [Solenopsidini]; Forel, 1917: 242 [Solenopsidini]; Emery, 1922e: 158 [Solenopsidini]; Wheeler, W.M. 1922a: 659, 662, 670; Chapman & Capco, 1951: 161; Kempf, 1972a: 263; Smith, D.R. 1979: 1381; Hölldobler & Wilson, 1990: 16; subsequent authors; Bolton, 2003: 59, 207.

Solenopsidini as senior synonym of Adelomyrmecini: Ward, *et al.* 2015: 77.

Solenopsidini as senior synonym of Megalomyrmecini: Bolton, 1994: 106; Bolton, 1995b: 12; Bolton, 2003: 59, 207; Ward, *et al.* 2015: 77.

Solenopsidini as senior synonym of Monomorini Emery: Bolton, 1994: 106; Bolton, 1995b: 13; Bolton, 2003: 59, 207; Ward, *et al.* 2015: 77.

Solenopsidini as senior synonym of Monomorini Wheeler: Bolton, 1995b: 15; Bolton, 2003: 59, 207; Ward, *et al.* 2015: 77.

Solenopsidini as senior synonym of Myrmicariini: Ward, *et al.* 2015: 77.

Solenopsidini as senior synonym of \*Hypopomyrmeciti: Bolton, 2003: 59, 207; Ward, *et al.* 2015: 77.

Solenopsidini as senior synonym of Pheidologetini: Wheeler, W.M. 1922a: 662; Ettershank, 1966: 73; Bolton, 2003: 59, 207; Ward, *et al.* 2015: 77.

Solenopsidini as senior synonym of Stegomyrmecini: Ward, *et al.* 2015: 77.

**Genera of Solenopsidini:** *Adelomyrmex*, *Anillomyrma*, *Austromorium*, *Baracidris*, *Bariamyrma*, *Bondroitia*, *Chelaner*, *Cryptomyrmex*, *Dolopomyrmex*, *Epelysidris*, *Erromyrma*, *Kempfidris*, *Megalomyrmex*, *Monomorium*, *Myrmicaria*, *Oxyepoecus*, *Rogeria*, *Solenopsis*, *Stegomyrmex*, *Syllophopsis*, *Tropidomyrmex*, *Tyrannomyrmex*.

**Solenopsidini references:** Emery, 1895j: 769 (diagnosis); Wheeler, W.M. 1910g: 140 (diagnosis); Emery, 1914a: 37, 38, 41 (diagnoses (in key), synoptic classification); Forel, 1917: 242 (synoptic classification); Emery, 1922e: 158, 206 (Solenopsidini diagnosis, genera key, catalogue; Pheidologetini diagnosis); Wheeler, W.M. 1922a: 670 (genera key); Wheeler, W.M. 1922a: 862, 1026 (Afrotropical, Malagasy catalogues); Emery, 1924d: 207 (Pheidologetini genera key, catalogue); Kusnezov, 1957a: 267 (Neotropical genera key); Ettershank, 1966: 73 (review of Solenopsidini, genera diagnoses); Ettershank, 1966: 115 (*Pheidologeton* group review); Wheeler, G.C. & Wheeler, J. 1976b: 55 (larvae, review and synthesis); Kugler, C. 1978a: 455 (sting structure); Kugler, C. 1986: 221 (*Pheidologeton* group sting structure); Bolton, 1987: 263 (diagnosis, review of genus group, genera key); Dlussky & Fedoseeva, 1988: 80 (synoptic classification); Brandão, 1991: 390 (Neotropical, synoptic classification); Hölldobler & Wilson, 1990: 16 (synoptic classification); Bolton, 1994: 106 (synoptic classification); Bolton, 1995a: 1041 (census); Bolton, 1995b: 14, 15 (catalogue); Bolton, 2003: 60, 207 (diagnosis, synopsis); Fernández, 2003d: 322 (Neotropical genera); Ward, *et al.* 2015: 67 (**reclassification**); Fernández & Serna, 2019: 800 (Colombia fauna).

**\*SPHECOMYRMINAE** [subfamily of Formicidae]

**\*Sphecomyrminae** Wilson & Brown, in Wilson, *et al.* 1967: 6. Type-genus: *\*Sphecomyrma* Wilson & Brown, in Wilson, *et al.* 1967: 8.

#### **Taxonomic history**

\*Sphecomyrminae as family: Dlussky, 1983: 77 [\*Sphecomyrmidae]; Dlussky, 1987: 132 [\*Sphecomyrmidae]; Dlussky & Fedoseeva, 1988: 77 [\*Sphecomyrmidae].

\*Sphecomyrminae as subfamily of Formicidae: Wilson, *et al.* 1967: 6; Dlussky, 1975: 114; Wilson, 1987: 49; Hölldobler & Wilson, 1990: 9; Bolton, 1994: 184; Bolton, 1995b: 15; Dlussky,

1996: 83; Grimaldi, *et al.* 1997: 7; Dlussky, 1999a: 63; Bolton, 2003: 74, 260; Ward, 2007a: 555; LaPolla, *et al.* 2013: 618 (in text); Barden, 2017: 2; Borysenko, 2017: 3.

**Tribes of \*Sphecomyrminae:** \*Sphecomyrmini, \*Zigrasimeciini.

**\*Sphecomyrminae references:** Dlussky, 1975: 114 (diagnosis); Bolton, 2003: 74, 260 (diagnoses, comments, synopsis); Barden & Grimaldi, 2016: 4 (phylogeny); Barden, 2017: 2 (checklist); Borysenko, 2017: 15 (diagnosis).

**\*SPHECOMYRMINI** [tribe of \*Sphecomyrminae]

**\*Sphecomyrminae** Wilson & Brown, in Wilson, *et al.* 1967: 6. Type-genus: \**Sphecomyrma* Wilson & Brown, in Wilson, *et al.* 1967: 8.

#### **Taxonomic history**

\*Sphecomyrmini as tribe of \*Sphecomyrminae: Bolton, 1994: 187.

\*Sphecomyrmini as senior synonym of \*Armaniidae: Borysenko, 2017: 17 (in text)

**Genera of \*Sphecomyrmini:** \**Armania*, \**Cretomyrma*, \**Gerontoformica*, \**Orapia*, \**Pseudarmania*, \**Sphecomyrma*.

**\*Sphecomyrmini references:** Wheeler, G.C. & Wheeler, J. 1972a: 36 (diagnosis); Wilson, 1987: 44, 49 (review, synoptic classification); Bolton, 1995b: 15 (catalogue); Grimaldi, *et al.* 1997: 7 (review, diagnosis, phylogeny); Bolton, 2003: 74, 261 (diagnosis, synopsis); Perfilieva, 2011: 275 (venation); Barden & Grimaldi, 2013: 410 (comments); Barden & Grimaldi, 2016: 4 (phylogeny); Barden, 2017: 2 (checklist); Borysenko, 2017: 15 (diagnosis).

STEGOMYRMECINI [junior synonym of Solenopsidini]

**Stegomyrmicini** Wheeler, W.M. 1922a: 655, 668. Type-genus: *Stegomyrmex* Emery, 1912b: 99.

#### **Taxonomic history**

Stegomyrmecini as tribe of Myrmicinae: Wheeler, W.M. 1922a: 655, 668 [Stegomyrmicini]; Kempf, 1972a: 265 [Stegomyrmicini]; Wheeler, G.C. & Wheeler, J. 1976b: 60 [Stegomyrmecini]; Wheeler, G.C. & Wheeler, J. 1985: 258; Diniz, 1990: 277; Brandão, 1991: 392; Bolton, 1994: 106; Bolton, 1995b: 15; Bolton, 2003: 70, 254.

Stegomyrmecini as junior synonym of Solenopsidini: Ward, *et al.* 2015: 77.

**STENAMMINI** [tribe of Myrmicinae]

**Stenammini** Ashmead, 1905b: 383. Type-genus: *Stenamma* Westwood, 1839: 219.

#### **Taxonomic history**

Stenammini as subtribe of Pheidolini: Emery, 1921f: 52.

Stenammini as subtribe of Myrmicini: Emery, 1924d: 357.

Stenammini as tribe of Myrmicinae: Ashmead, 1905b: 383; Bolton, 1994: 106; Bolton, 1995b: 16; Bolton, 2003: 58, 202.

Stenammini as senior synonym of Aphaenogastrini: Ward, *et al.* 2015: 76.

**Genera of Stenammini:** *Aphaenogaster*, *Goniomma*, *Oxyopomyrmex*, *Messor*, *Novomessor*, \**Paraphaenogaster*, *Stenamma*, *Veromessor*.

**Stenammini references:** Emery, 1921f: 52 (diagnosis, catalogue); Bolton, 1994: 106 (synoptic classification); Bolton, 1995a: 1042 (census); Bolton, 1995b: 16 (catalogue); Bolton, 2003: 58, 202 (diagnosis, synopsis); Fernández, 2003d: 325 (Neotropical genera); Xu, 2012b: 333 (genera key); Ward, *et al.* 2015: 67 (**reclassification**); Fernández & Serna, 2019: 797 (Colombia fauna).

STEREOMYRMECINI [junior synonym of Crematogastrini]

**Stereomyrmicini** Emery, 1914a: 36 (diagnosis in key). Type-genus: *Stereomyrmex* Emery, 1901f: 115.

#### **Taxonomic history**

Stereomyrmecini as tribe of Myrmicinae: Emery, 1914a: 36 [Stereomyrmicini]; Forel, 1917: 242 [Stereomyrmicini]; Emery, 1921f: 19 (footnote) [Stereomyrmicinae]; Emery, 1922e: 119 [Stereomyrmicini]; Wheeler, W.M. 1922a: 661 [Stereomyrmicini]; Chapman & Capco, 1951: 173; Wheeler, G.C. & Wheeler, J. 1976b: 53 [Stereomyrmecini]; Wheeler, G.C. & Wheeler, J. 1985: 257 [Stereomyrmecini]; Dlussky & Fedoseeva, 1988: 80 [Stereomyrmecini].

Stereomyrmecini as junior synonym of Formicoxenini: Bolton, 1994: 105; Bolton, 1995b: 12; Bolton, 2003: 68, 243.

Stereomyrmecini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

**STICTOPONERINI** [junior synonym of Ectatommini]

**Stictoponerini** Arnol'di, 1930d: 161. Type-genus: *Stictoponera* Mayr, 1887: 539 (junior synonym of *Gnamptogenys* Roger, 1863a: 174).

**Taxonomic history**

Stictoponerini as subtribe of Ectatommini: Arnol'di, 1930d: 161.

Stictoponerini as junior synonym of Ectatommini: Brown, 1958g: 211 [by implication as type-genus included in Ectatommini]; Taylor, 1980c: 354; Bolton, 1994: 164; Bolton, 1995b: 11; Bolton, 2003: 46, 173.

**STRUMIGENITI** [junior synonym of Attini]

**Strumigeniti** Brown, 1952g: 10 (footnote). Type-genus: *Strumigenys* Smith, F. 1860c: 72.

**Taxonomic history**

Strumigeniti as subtribe of Dacetini: Brown, 1952g: 10 (footnote); Brown, 1954b: 465; Brown & Wilson, 1959b: 281; Brandão, 1991: 391.

Strumigeniti as junior synonym of Dacetini: Baroni Urbani & De Andrade, 1994: 9; Bolton, 1995b: 10; Bolton, 2003: 54, 186.

Strumigeniti as junior synonym of Attini: Ward, *et al.* 2015: 77.

**TAPINOMINI** [tribe of Dolichoderinae]

**Tapinomini** Emery, 1913a: 17. Type-genus: *Tapinoma* Foerster, 1850a: 43.

**Taxonomic history**

Tapinomini as junior synonym of Dolichoderinae: Shattuck, 1992c: 5; Bolton, 1994: 26; Bolton, 1995b: 16; Bolton, 2003: 19, 81.

Tapinomini as tribe of Dolichoderinae: Emery, 1913a: 17 [Tapinomini]; Santschi, 1914b: 117; Wheeler, W.M. 1915h: 86; Emery, 1916b: 211; Forel, 1917: 247; Wheeler, W.M. 1922a: 688; Chapman & Capco, 1951: 187; Kempf, 1972a: 266; Smith, D.R. 1979: 1417; subsequent authors; Dlussky & Fedoseeva, 1988: 77; Hölldobler & Wilson, 1990: 17; Brandão, 1991: 393; Jaffe, 1993: 9; Dubovikoff, 2005a: 91; Ward, *et al.* 2010: 361.

Tapinomini as senior synonym of Axinidrini: Ward, *et al.* 2010: 361 [by implication as type-genus included in Tapinomini].

Tapinomini as senior synonym of Liometopini: Ward, *et al.* 2010: 361 [by implication as type-genus included in Tapinomini].

**Genera of Tapinomini:** *Aptinoma*, *Axinidris*, \**Ctenobethylus*, *Ecpnorella*, *Liometopum*, *Tapinoma*, *Technomyrmex*.

**TARAXOPONERINAE** [unavailable name]

Taraxoponerinae Forel, 1917: 231 [as "section" of Ponerinae]. Unavailable name; not based on genus rank taxon.

[Note: section designated to include tribes Ectatommini, Paraponerini, Platythyreini, Proceratiini and Thaumatomyrmecini. Contained material referable to Ponerinae (Bolton, 1994: 164, Bolton, 1995b: 16). From 2003 onward referable to Ectatomminae, Paraponerinae, Ponerinae and Proceratiinae (Bolton, 2003: 266).]

TELEUTOMYRMECINI [junior synonym of Crematogastrini]

**Teleutomyrmini** Kutter, 1950a: 81. Type-genus: *Teleutomyrmex* Kutter, 1950: 82.

**Taxonomic history**

Teleutomyrmecini as subtribe of Tetramoriini: Kutter, 1950a: 81 [Teleutomyrmini].

Teleutomyrmecini as junior synonym of Tetramoriini: Bolton, 1994: 106 [Teleutomyrmini]; Bolton, 1995b: 16 [Teleutomyrmini]; Bolton, 2003: 62, 224 [Teleutomyrmini].

Teleutomyrmecini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

[**TELEUTOMYRMINAE**: incorrect initial spelling by Kutter, 1950a: 81; incorrect subsequent spelling by Bolton, 1994 106, Bolton, 2003: 62, 224.]

TETRAMORIINI [junior synonym of Crematogastrini]

**Tetramorii** Emery, 1895j: 770. Type-genus: *Tetramorium* Mayr, 1855: 423.

**Taxonomic history**

Tetramoriini as tribe of Myrmicinae: Emery, 1895j: 770 [Tetramorii]; Forel, 1901b: 10 [Tetramorii]; Ashmead, 1905b: 383 [Tetramoriini]; Santschi, 1910e: 650 [Tetramorii]; Wheeler, W.M. 1910g: 141 [Tetramorii]; Emery, 1914a: 38; Santschi, 1914b: 101 [Tetramorii]; Wheeler, W.M. 1915h: 69; Emery, 1916b: 192 [Tetramoriini]; Arnold, 1917: 271; Forel, 1917: 245; Wheeler, W.M. 1922a: 664, 670; Emery, 1924d: 271; Chapman & Capco, 1951: 173; Kempf, 1972a: 264; Smith, D.R. 1979: 1399; Dlussky & Fedoseeva, 1988: 80; Hölldobler & Wilson, 1990: 16; Brandão, 1991: 390; Bolton, 1995b: 16; Bolton, 2003: 62, 224.

Tetramoriini as junior synonym of Crematogastrini: Ward, *et al.* 2015: 77.

**Tetramoriini references**: Wheeler, W.M. 1910g: 141 (diagnosis); Emery, 1914a: 38, 42 (diagnosis (in key), synoptic classification); Forel, 1917: 245 (synoptic classification); Wheeler, W.M. 1922a: 670 (genera key); Wheeler, W.M. 1922a: 893, 1030 (Afrotropical, Malagasy catalogues); Emery, 1924d: 271 (diagnosis, genera key, catalogue); Wheeler, G.C. & Wheeler, J. 1976b: 57 (larvae, review and synthesis); Bolton, 1976: 289, 294 (diagnosis, revision of tribe, genera key); Kugler, C. 1978a: 442 (sting structure); Bolton, 1980: 196 (Afrotropical genera key); Dlussky & Fedoseeva, 1988: 80 (synoptic classification); Hölldobler & Wilson, 1990: 16 (synoptic classification); Bolton, 1994: 106 (synoptic classification); Bolton, 1995a: 1042 (census); Bolton, 1995b: 16 (catalogue); Sanetra & Buschinger, 2000: 95 (partial phylogeny); Bolton, 2003: 62, 224 (diagnosis, synopsis).

THAUMATOMYRMECINI [junior synonym of Ponerini]

**Thaumatomyrmii** Emery, 1901a: 36. Type-genus: *Thaumatomyrmex* Mayr, 1887: 530.

**Taxonomic history**

Thaumatomyrmecini as tribe of Ponerinae: Emery, 1901a: 36 [Thaumatomyrmii]; Emery, 1911d: 48 [Thaumatomyrmicini]; Forel, 1917: 236 [Thaumatomyrmicini]; Wheeler, W.M. 1922a: 637, 644 [Thaumatomyrmicini]; Wheeler, G.C. & Wheeler, J. 1976b: 45 [Thaumatomyrmecini]; Wheeler, G.C. & Wheeler, J. 1985: 256; Dlussky & Fedoseeva, 1988: 78; Hölldobler & Wilson, 1990: 10; Bolton, 1994: 164; Bolton, 1995b: 15; Bolton, 2003: 44, 171.

Thaumatomyrmecini as junior synonym of Ponerini: Schmidt, C.A. & Shattuck, 2014: 46, 53.

**TYPHLOMYRMECINI** [tribe of Ectatomminae]

**Typhlomyrmicini** Emery, 1911d: 32. Type-genus: *Typhlomyrmex* Mayr, 1862: 736.

**Taxonomic history**

Typhlomyrmecini as subtribe of Ectatommini: Emery, 1911d: 32 [Typhlomyrmicini]; Gallardo, 1918b: 11 [Typhlomyrmicini].

Typhlomyrmecini as tribe of Ponerinae: Brown, 1953a: 104 [Typhlomyrmecini]; Kusnezov, 1964: 49 [Typhlomyrmecini]; Brown, 1965c: 65 [Typhlomyrmecini]; Kempf, 1972a: 262 [Typhlomyrmecini]; Wheeler, G.C. & Wheeler, J. 1976b: 48; Dlussky & Fedoseeva, 1988: 79; Hölldobler & Wilson, 1990: 10 [Typhlomyrmecini]; Brandão, 1991: 389; Bolton, 1995b: 15.

Typhlomyrmecini as tribe of Ectatomminae: Bolton, 2003: 46, 176; Feitosa & Prada-Achiardi, 2019: 677.

**Genus of Typhlomyrmecini:** *Typhlomyrmex*.

**\*ZHERICHINIINI** [tribe of Dolichoderinae]

\***Zherichiniini** Dlussky, 1988: 56. Type-genus: *\*Zherichinius* Dlussky, 1988: 57.

**Taxonomic history**

\*Zherichiniini as tribe of Dolichoderinae: Dlussky, 1988: 56; Dlussky & Fedoseeva, 1988: 77.

\*Zherichiniini as junior synonym of Dolichoderinae: Shattuck, 1992c: 5; Bolton, 1994: 26; Bolton, 1995b: 16; Bolton, 2003: 19, 81.

\*Zherichiniini as tribe of Dolichoderinae: Ward, *et al.* 2010: 362 [by implication as *incertae sedis* in Dolichoderinae].

**Genus of \*Zherichiniini:** *\*Zherichinius*.

**\*ZIGRASIMECIINI** [tribe of \*Sphecomyrminae]

\***Zigrasimeciini** Borysenko, 2017: 3. Type-genus: *\*Zigrasimecia* Barden & Grimaldi, 2013: 407.

**Taxonomic history**

\*Zigrasimeciini as tribe of \*Sphecomyrminae: Borysenko, 2017: 3, 18 (diagnosis).

**Genera of \*Zigrasimeciini:** *\*Boltonimecia*, *\*Zigrasimecia*.