

TEMNOTHORAX

[Note (i): unavailable names, *nomina nuda*, etc. that were originally published in combination in *Leptothorax* are listed here, but their original reference data have been retained under *Leptothorax*.

Note (ii): while it should be noted that the compiler of this catalogue emphatically supports monophyly, in agreement with Ward, Brady, et al. 2016: 489, some authors prefer to retain *Chalepoxenus*, *Myrmoxenus* and *Protomognathus* as paraphyletic genera: Seifert, Buschinger, et al. 2016: 237. Valid species included in *Chalepoxenus*: *brunneus*, *hyrcanus*, *kutteri*, *muellerianus*, *spinosus* (*sentosus*), *tarbinskii*, *tauricus* (*inquilinus*), *tramieri*, *zabelini*. Valid species included in *Myrmoxenus*: *adlerzi*, *africanus*, *algerianus*, *bernardi*, *birgitae*, *corsicus*, *gordiagini*, *kraussei*, *ravouxi*, *stumperi*, *tamarae*, *zaleskyi*. Valid species included in *Protomognathus*: *americanus*.]

abeli. *Leptothorax abeli* Fontenla Rizo, 1998: 62, fig. 1 (w.) CUBA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Fontenla Rizo, 2001: 16 (in key); Bolton, 2003: 271.

aculeata Mayr, 1866 [*Macromischa*]; see under **TETRAMORIUM**.

acutinodis. *Leptothorax tuberum* subsp. *acutinodis* Arnol'di, 1977a: 204 (w.) ARMENIA.

[*Leptothorax tuberum* subsp. *acutinodis* Arnol'di, 1948: 211 (in list). *Nomen nudum*.]

Junior synonym of *tuberum*: Arakelian, 1994: 58; Bolton, 1995b: 235; Radchenko, 1995c: 15; Radchenko, 2016: 229.

adlerzi. *Epimyrma adlerzi* Douwes, Jessen & Buschinger, 1988: 240, figs. 2-5 (q.m.) GREECE.

Combination in *Myrmoxenus*: Schulz, A. & Sanetra, 2002: 167;

combination in *Temnothorax*: Ward, et al. 2015: 75.

Status as species: Buschinger, 1989: 267; Bolton, 1995b: 188; Buschinger, 1997: 8; Legakis, 2011: 17; Borowiec, L. & Salata, 2012: 524; Borowiec, L. 2014: 136; Lebas, et al. 2016: 328; Salata & Borowiec, 2018c: 47.

adustus. *Leptothorax (Myrafant) adustus* Mackay, 2000: 309, figs. 31, 32, 35, 80, 81 (w.q.m.) MEXICO (Chihuahua), U.S.A. (New Mexico).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Mackay & Mackay, 2002: 115; Bolton, 2003: 271.

aeolius. *Leptothorax bulgaricus* subsp. *aeolius* Forel, 1911d: 334 (w.) TURKEY.

Subspecies of bulgaricus: Forel, 1913d: 432; Emery, 1924d: 253; Menozzi, 1936d: 291; Bolton, 1995b: 235; Vonshak, et al. 2009: 44; Legakis, 2011: 17.

Status as species: Collingwood, 1993b: 194; Borowiec, L. & Salata, 2012: 539; Kiran & Karaman, 2012: 25; Borowiec, L. 2014: 170; Borowiec, L. & Salata, 2018: 7; Salata & Borowiec, 2018c: 49.

affinis. *Leptothorax affinis* Mayr, 1855: 442 (w.) AUSTRIA.

Forel, 1874: 88 (q.); Stitz, 1914: 62 (m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

As unavailable (infrasubspecific) name: Emery & Forel, 1879: 458.

Subspecies of tuberum: Forel, 1874: 85 (in key); André, 1883a: 299; Forel, 1889: 257; Forel, 1892i: 314; Dalla Torre, 1893: 128; Ruzsky, 1902d: 21; Ruzsky, 1905b: 590; Bondroit, 1910: 496; Stitz, 1914: 62; Crawley, 1914a: 91 (in key); Emery, 1914d: 158; Forel, 1915d: 23 (in key); Emery, 1916b: 174; Escherich, 1917: 328 (in key); Soudek, 1922: 53; Emery, 1924d: 256; Gösswald, 1932: 94; Ceballos, 1956: 307.

Status as species: Gredler, 1858: 27; Smith, F. 1858b: 119; Mayr, 1861: 59 (in key); Roger, 1863b: 26; Mayr, 1863: 426; André, 1874: 190 (in key); Emery, 1878b: 51; Bondroit, 1918: 128; Müller, 1923b: 93; Stärcke, 1926: 95 (in key); Finzi, 1933: 164; Stitz, 1939: 173; Finzi, 1939b: 88; Novák, in Novák & Sadil, 1941: 92 (in key); Novák, in Kratochvíl, et al. 1944: 120; Bernard, 1956a: 163; Bernard, 1967: 213 (redescription);

Kutter, 1968a: 60; Baroni Urbani, 1971c: 102; Collingwood, 1971: 161; Pisarski, 1975: 19; Kutter, 1977c: 130; Arnol'di & Dlussky, 1978: 541 (in key); Collingwood, 1978: 84 (in key); Agosti & Collingwood, 1987a: 55; Agosti & Collingwood, 1987b: 275 (in key); Atanassov & Dlussky, 1992: 133; Radchenko, 1994d: 156 (in key); Bolton, 1995b: 235; Douwes, 1995: 90; Poldi, *et al.* 1995: 4; Radchenko, 1995c: 20; Espadaler, 1997b: 30; Collingwood & Prince, 1998: 16 (in key); Gallé, *et al.* 1998: 215; Czechowski, *et al.* 2002: 53; Markó & Csösz, 2002: 114; Bolton, 2003: 271; Karaman, G.S. & Karaman, 2005: 55; Bračko, 2006: 140; Markó, Sipos, *et al.* 2006: 70; Petrov, 2006: 98 (in key); Bračko, 2007: 18; Seifert, 2007: 231; Werner & Wiezik, 2007: 140; Zryanin & Zryanina, 2007: 231; Gratiashvili & Barjadze, 2008: 142; Casevitz-Weulersse & Galkowski, 2009: 494; Lapeva-Gjonova, *et al.* 2010: 21; Boer, 2010: 51; Csösz, *et al.* 2011: 57; Legakis, 2011: 17; Karaman, M.G. 2011b: 28; Borowiec, L. & Salata, 2012: 539; Czechowski, *et al.* 2012: 153; Kiran & Karaman, 2012: 25; Borowiec, L. & Salata, 2013: 371; Borowiec, L. 2014: 171; Lebas, *et al.* 2016: 342; Radchenko, 2016: 217; Salata & Borowiec, 2018c: 49; Seifert, 2018: 204.

Senior synonym of *tirolensis*: Emery, 1914d: 158 (footnote); Emery, 1916b: 174; Emery, 1924d: 256; Bernard, 1967: 213; Bolton, 1995b: 235; Radchenko, 2016: 217.

affinis. *Macromischa* (*Macromischa*) *affinis* Mann, 1920: 417, fig. 5 (w.) CUBA.

[**Junior secondary homonym** of *Leptothorax affinis* Mayr, 1855: 442.]

Status as species: Mann, 1924: 21; Wheeler, W.M. 1937b: 455, 463; Kempf, 1972a: 135; Alayo, 1974: 17 (in key); Fontenla Rizo, 1993: 5 (error).

Replacement name: *Leptothorax similis* Baroni Urbani, 1978b: 501.

affinonigriceps Forel, 1874 (*nomen nudum*); see under **LEPTOTHORAX**.

affinotuberum Forel, 1874 (*nomen nudum*); see under **LEPTOTHORAX**.

africana Mayr, 1866 [*Macromischa*]; see under **TETRAMORIUM**.

africanus. *Epimyrma* (*Gonepimyrma*) *africana* Bernard, 1948: 148, fig. 7a,b (w.) LIBYA.

Combination in *Temnothorax*: Ward, *et al.* 2015: 75.

Status as species: Kutter, 1973e: 289; Buschinger, 1989: 266; Schulz, A. 1994b: 432; Bolton, 1995b: 188; Borowiec, L. 2014: 136.

aguayoi. *Croesomyrmex aguayoi* Wheeler, W.M. 1931b: 25 (w.) CUBA.

Baroni Urbani, 1978b: 410 (m.).

Combination in *Macromischa* (*Croesomyrmex*): Aguayo, 1931: 179;

combination in *Leptothorax* (*Macromischa*): Baroni Urbani, 1978b: 409.

Status as species: Aguayo, 1931: 179; Wheeler, W.M. 1937b: 465; Kempf, 1972a: 135; Alayo, 1974: 15 (in key); Baroni Urbani, 1978b: 409 (redescription); Brandão, 1991: 351; Bolton, 1995b: 235.

Junior synonym of *gundlachi*: Fontenla Rizo, 1997a: 50.

alaicus. *Leptothorax tuberum* subsp. *alaicus* Tarbinsky, 1976: 97 (w.) KYRGYZSTAN.

Subspecies of *tuberum*: Bolton, 1995b: 235.

Junior synonym of *tuberum*: Radchenko, 1995c: 14; Schultz, R. *et al.* 2006: 203; Radchenko, 2016: 229.

alayoi. *Leptothorax* (*Macromischa*) *alayoi* Baroni Urbani, 1978b: 411, figs. 26, 83 (w.) CUBA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Brandão, 1991: 350; Bolton, 1995b: 235; Fontenla Rizo, 2001: 16 (in key); Bolton, 2003: 271.

alayorum. *Macromischa alayorum* Fontenla Rizo, 1993: 2, fig. 1 (w.) CUBA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271 (error).

Junior synonym of *gundlachi*: Fontenla Rizo, 1997a: 50.

albipennis. *Stenamma albipennis* Curtis, 1854: 218 (w.m.) GREAT BRITAIN.

Combination in *Leptothorax*: Emery, 1924d: 256; Orledge, 1998: 31;

combination in *Temnothorax*: Bolton, 2003: 271.

Junior synonym of *unifasciatus*: Nylander, 1856b: 92; Smith, F. 1871b: 4.

Junior synonym of *nylanderi*: Smith, F. 1858b: 120; Mayr, 1863: 427; Forel, 1874: 102 (in list); Emery & Forel, 1879: 459; Dalla Torre, 1893: 125.

Junior synonym of *tuberum*: Donisthorpe, 1915d: 162; Emery, 1924d: 256; Donisthorpe, 1927b: 181; Bolton, 1995b: 235.

Status as species: Smith, F. 1855b: 134; Orledge, 1998: 31; Czechowski, *et al.* 2002: 46; Bolton, 2003: 271; Seifert, 2007: 236; Werner & Wiezik, 2007: 148; Casevitz-Weulersse & Galkowski, 2009: 494; Boer, 2010: 51; Csösz, *et al.* 2011: 57; Czechowski, *et al.* 2012: 368 (in key); Salata & Borowiec, 2013: 407; Borowiec, L. 2014: 171; Lebas, *et al.* 2016: 378; Radchenko, 2016: 218; Seifert, 2018: 209.

Senior synonym of *tuberointerruptus*: Orledge, 1998: 31; Czechowski, *et al.* 2002: 46; Casevitz-Weulersse & Galkowski, 2009: 494; Radchenko, 2016: 218.

albispinus. *Macromischa albispina* Wheeler, W.M. 1908a: 139, pl. 11, figs. 3, 4 (w.q.) PUERTO RICO.

Combination in *M. (Antillaemyrmex)*: Mann, 1920: 408;

combination in *Antillaemyrmex*: Wheeler, W.M. 1931b: 27;

combination in *Leptothorax (Macromischa)*: Baroni Urbani, 1978b: 413;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Mann, 1920: 409 (in key); Emery, 1924d: 246; Wheeler, W.M. 1931b: 27; Smith, M.R. 1937: 850; Wheeler, W.M. 1937b: 465; Kempf, 1972a: 135; Baroni Urbani, 1978b: 413 (redescription); Brandão, 1991: 351; Bolton, 1995b: 235; Bolton, 2003: 271.

Senior synonym of *pallipes*: Baroni Urbani, 1978b: 413; Brandão, 1991: 351; Bolton, 1995b: 235.

algerianus. *Epimyrma algeriana* Cagniant, 1968c: 157, figs. 1-4 (w.q.m.) ALGERIA.

[*Epimyrma algeriana* Cagniant, 1968a: 144. *Nomen nudum*.]

Combination in *Myrmoxenus*: Cagniant, 2006a: 198;

combination in *Temnothorax*: Ward, *et al.* 2015: 75.

Status as species: Cagniant, 1970a: 428; Kutter, 1973e: 285; Buschinger, 1989: 267; Buschinger, Jessen & Cagniant, 1990: 23; Schulz, A. 1994b: 436; Bolton, 1995b: 188; Buschinger, 1997: 8; Cagniant & Espadaler, 1997: 282; Cagniant, 2006a: 198; Borowiec, L. 2014: 136.

algiricus. *Leptothorax angustulus* var. *algiricus* Forel, 1894d: 37 (w.) ALGERIA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of *angustulus*: Santschi, 1911a: 12; Santschi, 1918a: 35; Emery, 1924d: 253; Bolton, 1995b: 235.

Status as species: Cagniant, 1968a: 144; Cagniant & Espadaler, 1997: 278; Bračko, 2006: 140; Cagniant, 2006a: 198; Borowiec, L. 2014: 171; Galkowski & Lebas, 2016: 84 (in key); Lebas, *et al.* 2016: 344; Galkowski & Cagniant, 2017: 189.

Senior synonym of *gazella*: Cagniant & Espadaler, 1997: 278; Galkowski & Cagniant, 2017: 189.

Senior synonym of *monticola*: Cagniant & Espadaler, 1997: 278; Galkowski & Cagniant, 2017: 189.

Senior synonym of *silvanus*: Cagniant & Espadaler, 1997: 278.

Senior synonym of *timida*: Cagniant & Espadaler, 1997: 278.

***alienus*.** *Temnothorax alienus* Schulz, A. Heinze & Pusch, 2007: 3, figs. 2, 3, 22, 26, 28, 29 (w.q.) ITALY.

Status as species: Borowiec, L. 2014: 171.

***alinae*.** *Leptothorax alinae* Radchenko, 1994i: 31, fig. 6a,b (w.) RUSSIA (Primorsky krai).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Radchenko, 1994d: 153 (in key); Bolton, 1995b: 235; Radchenko, 1995c: 21; Radchenko, 2004: 120.

***allardycei*.** *Macromischa (Macromischa) allardycei* Mann, 1920: 414, fig. 3 (w.q.) BAHAMAS.

Combination in *Leptothorax (Macromischa)*: Baroni Urbani, 1978b: 415; combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Wheeler, W.M. 1937b: 463; Kempf, 1972a: 136; Baroni Urbani, 1978b: 409 (redescription); Deyrup, *et al.* 1989: 97; Brandão, 1991: 351; Bolton, 1995b: 235; Bolton, 2003: 271; Deyrup, 2003: 45; Deyrup & Cover, 2004a: 58; Deyrup, 2017: 143.

Senior synonym of *floridanus* Wheeler: Baroni Urbani, 1978b: 415; Brandão, 1991: 351; Bolton, 1995b: 235.

***almeqeri*.** *Temnothorax almeqeri* Sharaf, in Sharaf & Aldawood, 2019b: 604, figs. 1A-F, 2A-C (w.) SAUDI ARABIA.

***alpinus*.** *Leptothorax alpinus* Ruzsky, 1902d: 22 (w.) RUSSIA, GEORGIA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of *tuberum*: Ruzsky, 1905b: 598; Emery, 1924d: 256.

Status as species: Radchenko, 1994d: 150 (in key); Bolton, 1995b: 235; Radchenko, 1996c: 17; Gratiashvili & Barjadze, 2008: 142; Borowiec, L. 2014: 171; Radchenko, Yusupov & Fedoseeva, 2015: 163.

Senior synonym of *wernerii*: Radchenko, Yusupov & Fedoseeva, 2015: 163 (in text).

***ambiguus*.** *Leptothorax (Leptothorax) curvispinosus* subsp. *ambiguus* Emery, 1895c: 320 (w.) U.S.A. (South Dakota, Ohio, New York).

[Note: type-locality designated as South Dakota by Creighton, 1950a: 263.]

Wesson, L.G. & Wesson, R.G. 1940: 97 (q.m.); Wheeler, G.C. & Wheeler, J. 1955b: 22 (l.).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 817;

combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of *curvispinosus*: Wheeler, W.M. 1903c: 241; Wheeler, W.M. 1906b: 9; Wheeler, W.M. 1910g: 567; Wheeler, W.M. 1916m: 589; Emery, 1924d: 258; Wing, 1939: 162; Smith, M.R. 1951a: 817.

Status as species: Wesson, L.G. & Wesson, R.G. 1940: 97 (redescription); Buren, 1944a: 287; Creighton, 1950a: 261; Smith, M.R. 1958c: 131; Smith, M.R. 1967: 358; Wilson, 1975: 110; Francoeur, 1977b: 207; Smith, D.R. 1979: 1392; Allred, 1982: 483; DuBois & LaBerge, 1988: 138; Bolton, 1995b: 235; Mackay, 2000: 312 (redescription); Bolton, 2003: 271; Coovert, 2005: 71; Ellison, *et al.* 2012: 326; Shattuck & Cover, 2016: 19.

Senior synonym of *foveata*: Coovert, 2005: 71; Shattuck & Cover, 2016: 20.

Senior synonym of *pinetorum*: Coovert, 2005: 71; Shattuck & Cover, 2016: 20.

***americanus*.** *Tomognathus americanus* Emery, 1895c: 272 (w.) U.S.A. (District of Columbia, Pennsylvania).

[*Tomognathus americanus* Wasmann, 1894: 164. *Nomen nudum* (attributed to Emery).]

Creighton, 1927: 27 (q.m.); Wheeler, G.C. & Wheeler, J. 1955b: 26 (l.).

Combination in *T. (Protomognathus)*: Wheeler, W.M. 1905a: 3;

combination in *Harpagoxenus*: Wheeler, W.M. 1910g: 494;

combination in *Protomognathus*: Cover, in Hölldobler & Wilson, 1990: 65;

combination in *Temnothorax*: Ward, *et al.* 2015: 75.

Status as species: Wheeler, W.M. 1901c: 715; Wheeler, W.M. 1905f: 376; Wheeler, W.M. 1910g: 567; Emery, 1924d: 266; Creighton, 1927: 26; Smith, M.R. 1939b: 166 (redescription); Wesson, L.G. & Wesson, R.G. 1940: 98; Creighton, 1950a: 284; Smith, M.R. 1951a: 822; Smith, M.R. 1958c: 134; Carter, 1962a: 7 (in list); Smith, M.R. 1967: 360; Kutter, 1968b: 204; Smith, D.R. 1979: 1398; Buschinger, 1981: 213; DuBois & LaBerge, 1988: 138; Wheeler, G.C., *et al.* 1994: 302; Bolton, 1995b: 369; Coovert, 2005: 81; MacGown & Forster, 2005: 72; Fisher & Cover, 2007: 137; Ellison, *et al.* 2012: 306.

***amilcaris*.** *Leptothorax flavisinus* st. *amilcaris* Santschi, 1939d: 76.

[First available use of *Leptothorax flavisinus* st. *santschii* var. *amilcaris* Santschi, 1911a: 12 (w.) TUNISIA; unavailable (infrasubspecific) name.]

As unavailable (infrasubspecific) name: Emery, 1924d: 254.

Subspecies of *flavisinus*: Bolton, 1995b: 235.

***annibalalis*,** misspelling, see under *annibalalis*.

***anacanthus*.** *Leptothorax hesperius* st. *anacanthus* Santschi, 1912c: 149.

Replacement name for *Leptothorax hesperius* st. *inermis* Santschi, 1909b: 468. [Junior primary homonym of *Leptothorax inermis* Forel, 1902c: 229.]

Cagniant & Espadaler, 1997: 281 (m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of *hesperius*: Emery, 1924d: 252; Santschi, 1936c: 203.

Status as species: Santschi, 1931a: 6; Cagniant, 1964: 89; Bolton, 1995b: 235; Cagniant & Espadaler, 1997: 281; Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 171 (see note in bibliography).

Current subspecies: nominal plus *maximus*.

***anaphalantus*.** *Temnothorax anaphalantus* Snelling, R.R. *et al.* 2014: 32, figs. 2-4, 19, 23-26 (w.q.m.) U.S.A. (California), MEXICO (Baja California).

***andersoni*.** *Leptothorax (Myrafant) andersoni* Mackay, 2000: 314, figs. 14, 83 (w.) U.S.A. (Texas).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271.

***andrei*.** *Leptothorax (Leptothorax) andrei* Emery, 1895c: 322, pl. 8, fig. 15 (w.) U.S.A. (California).

Cole, 1958c: 537 (q.m.).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 817;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Wheeler, W.M. 1903c: 256; Wheeler, W.M. 1910g: 567; Wheeler, W.M. 1917a: 507; Emery, 1924d: 258; Creighton, 1950a: 263; Smith, M.R. 1951a: 817; Cole, 1958c: 537; Cole, 1966: 17 (in key); Smith, M.R. 1967: 358; Hunt & Snelling,

1975: 22; Yensen, *et al.* 1977: 183; Smith, D.R. 1979: 1392; Snelling, R.R. & George, 1979: 143; Allred, 1982: 483; Wheeler, G.C. & Wheeler, J. 1986g: 52; Mackay, Lowrie, *et al.* 1988: 90; Bolton, 1995b: 235; Mackay, 2000: 316 (redescription); Mackay & Mackay, 2002: 116; Bolton, 2003: 271; Ward, 2005: 15; Snelling, R.R. *et al.* 2014: 37.

Senior synonym of *heathii*: Ward, 2005: 15; Snelling, R.R. *et al.* 2014: 37.

Senior synonym of *occidentalis*: Ward, 2005: 15; Snelling, R.R. *et al.* 2014: 38.

Senior synonym of *ocellatus*: Ward, 2005: 15; Snelling, R.R. *et al.* 2014: 38.

***androsanus*.** *Macromischa androsana* Wheeler, W.M. 1905b: 97, fig. K (w.) BAHAMAS (Andros I.).

Baroni Urbani, 1978b: 418 (q.m.).

Combination in *Leptocephalus (Macromischa)*: Baroni Urbani, 1978b: 416;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Wheeler, W.M. 1908a: 142 (in key); Mann, 1920: 409 (in key); Emery, 1924d: 246; Wheeler, W.M. 1937b: 463; Kempf, 1972a: 136; Baroni Urbani, 1978b: 416 (redescription); Brandão, 1991: 351; Bolton, 1995b: 235; Bolton, 2003: 271.

anemicus. *Leptocephalus (Macromischa) anemicus* Baroni Urbani, 1978b: 420.

Replacement name for *Macromischa (Croesomyrmex) bermudezi* var. *gracilis* Aguayo, 1932: 223. [Junior secondary homonym of **Leptocephalus gracilis* Mayr, 1868b: 89.]

Status as species: Brandão, 1991: 353; Bolton, 1995b: 235.

Junior synonym of *bermudezi*: Fontenla Rizo, 1997a: 49.

***angulinodis*.** *Temnothorax angulinodis* Csösz, Heinze & Mikó, 2015: 16, figs. 5A-C (w.) GREECE.

Status as species: Salata & Borowiec, 2018c: 49.

***angulohumerus*.** *Temnothorax angulohumerus* Zhou, *et al.* 2010: 12, figs. 1-3 (w.) CHINA (Hunan).

Status as species: Guénard & Dunn, 2012: 54.

***angustifrons*.** *Temnothorax angustifrons* Csösz, Heinze & Mikó, 2015: 18, figs. 9A-C (w.) TURKEY, GREECE.

Salata & Borowiec, 2018c: 24 (q.).

Status as species: Borowiec, L. & Salata, 2018: 8; Salata & Borowiec, 2018c: 22.

***angustinodus*.** *Leptocephalus angustulus* var. *angustinode* Stitz, 1917: 336, fig. 3 (w.) LIBYA.

Subspecies of *angustulus*: Emery, 1924d: 252; Finzi, 1940: 161; Bolton, 1995b: 235; Galkowski & Cagniant, 2017: 190.

angustinodus. *Leptocephalus (Leptocephalus) angustinodus* Cole, 1956b: 28 (w.q.) U.S.A. (Arizona).

[**Junior primary homonym** of *Leptocephalus angustulus* var. *angustinode* Stitz, 1917: 336.]

Replacement name: *Leptocephalus stenotyle* Cole, 1956e: 214.

***angustulus*.** *Myrmica angustula* Nylander, 1856b: 88, pl. 3, fig. 36 (w.) FRANCE.

[Misspelled as *angustus* by Santschi, 1918a: 35.]

De Stefani, 1889: 145 (q.m.); Emery, 1916b: 183, 187 (q.m., respectively).

Combination in *Leptocephalus*: Mayr, 1861: 59 (in key);

combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of *tuberum*: Forel, 1890a: lxxv; Emery, 1891b: 5; Emery, 1915a: 260.

Status as species: Smith, F. 1858b: 117; Mayr, 1861: 59 (in key); Roger, 1863b: 26; Mayr, 1863: 427; Emery, 1869b: 14; Dours, 1873: 168; André, 1874: 189 (in key); Emery, 1878b: 51; Emery & Forel, 1879: 459; André, 1883a: 301 (in key); De Stefani,

1889: 145; Dalla Torre, 1893: 123; Forel, 1894d: 37; Forel, 1907b: 206; Emery, 1916b: 175; Bondroit, 1918: 136; Menozzi, 1921: 28; Müller, 1923b: 87 (in key); Emery, 1924d: 252; Kutter, 1927: 100; Finzi, 1933: 164; Zimmermann, 1935: 31; Finzi, 1940: 161; Bernard, 1956a: 161; Ceballos, 1956: 306; Baroni Urbani, 1964c: 155; Cagniant, 1964: 89; Bernard, 1967: 202 (redescription); Collingwood & Yarrow, 1969: 69; Cagniant, 1970a: 420; Baroni Urbani, 1971c: 103; Collingwood, 1978: 84 (in key); Schembri & Collingwood, 1981: 431; Agosti & Collingwood, 1987a: 55; Agosti & Collingwood, 1987b: 274 (in key); Casevitz-Weulersse, 1990c: 418 (in key); Bolton, 1995b: 235; Poldi, *et al.* 1995: 4; Schembri & Collingwood, 1995: 155; Espadaler, 1997b: 30; Bolton, 2003: 271; Bračko, 2006: 140; Petrov, 2006: 96 (in key); Borowiec, L. 2014: 171 (see note in bibliography); Galkowski & Lebas, 2016: 84 (in key); Lebas, *et al.* 2016: 344; Galkowski & Cagniant, 2017: 185 (redescription).

Senior synonym of *bordagei*: Casevitz-Weulersse & Galkowski, 2009: 494; Galkowski & Cagniant, 2017: 185.

Current subspecies: nominal plus *angustinodis*.

angustus, misspelling, see under *angustulus*.

anira. *Leptothorax anira* Terayama & Onoyama, 1999: 76, fig. 17 (w.) JAPAN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271; Imai, *et al.* 2003: 156.

annectens. *Leptothorax curvispinosus* subsp. *annectens* Wheeler, W.M. 1903c: 242, pl. 12, fig. 13 (w.) U.S.A. (Colorado).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 819;

Subspecies of *curvispinosus*: Wheeler, W.M. 1910g: 567.

Subspecies of *rugatulus*: Wheeler, W.M. 1917a: 510; Emery, 1924d: 259; Smith, M.R. 1951a: 819.

Junior synonym of *rugatulus*: Creighton, 1950a: 269; Smith, M.R. 1958c: 132; Smith, D.R. 1979: 1394; Bolton, 1995b: 236; Mackay, 2000: 394; Snelling, R.R. *et al.* 2014: 72.

annectens. *Macromischa annectens* Wheeler, W.M. 1931b: 11 (w.) MEXICO (Morelos).

[**Junior secondary homonym** of *Leptothorax curvispinosus annectens* Wheeler, W.M., 1903c: 242.]

Status as species: Wheeler, W.M. 1937b: 464; Kempf, 1972a: 136.

Replacement name: *Leptothorax annexus* Baroni Urbani, 1978b: 421.

annexus. *Leptothorax (Macromischa) annexus* Baroni Urbani, 1978b: 421.

Replacement name for *Macromischa annectens* Wheeler, W.M. 1931b: 11. [Junior secondary homonym of *Leptothorax curvispinosus annectens* Wheeler, W.M. 1903c: 242.]

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Brandão, 1991: 353; Bolton, 1995b: 236; Bolton, 2003: 271.

annibalis. *Leptothorax rottenbergi* st. *annibalis* Santschi, 1909b: 476, fig. 9 (w.q.) TUNISIA.

[Misspelled as *amnibalis* by Emery, 1924d: 252.]

Cagniant, 1966d: 967 (m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of *rottenbergii*: Santschi, 1918a: 33; Santschi, 1922a: 66; Emery, 1924a: 8; Emery, 1924d: 252; Finzi, 1940: 161.

Status as species: Santschi, 1929e: 151; Cagniant, 1966b: 279; Cagniant, 1966d: 967; Cagniant, 1970a: 419; Bolton, 1995b: 236; Bolton, 2003: 271; Borowiec, L. 2014: 172 (see note in bibliography).

Current subspecies: nominal plus *numidicus*.

***anodonta*.** *Leptothorax anodonta* Arnol'di, 1977a: 199 (w.m.) ARMENIA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Arakelian, 1994: 54; Radchenko, 1994d: 155 (in key); Bolton, 1995b: 236; Radchenko, 1995d: 7; Bolton, 2003: 271; Paknia, *et al.* 2010: 35; Borowiec, L. 2014: 172.

***anodontoides*.** *Leptothorax anodontoides* Dlussky & Zabelin, 1985: 227, fig. 5 (w.) TURKMENIA.

Radchenko, 1995d: 8 (m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Dlussky, Soyunov & Zabelin, 1990: 189; Radchenko, 1994d: 150 (in key); Bolton, 1995b: 236; Radchenko, 1995d: 7; Bolton, 2003: 271; Borowiec, L. & Salata, 2012: 540; Borowiec, L. 2014: 172.

***anoplogynus*.** *Leptothorax anoplogynus* Emery, 1869b: 15 (w.q.) ITALY.

As unavailable (infrasubspecific) name: Emery & Forel, 1879: 459; Ruzsky, 1905b: 596; Karavaiev, 1926c: 164; Gratiashvili & Barjadze, 2008: 143 (error).

Subspecies of *unifasciatus*: Emery, 1869b: 25 (in text); Dalla Torre, 1893: 129; Ruzsky, 1902d: 22.

Subspecies of *tuberum*: André, 1883a: 300.

Junior synonym of *unifasciatus*: Emery, 1916b: 175; Emery, 1924d: 257; Baroni Urbani, 1971c: 125; Bolton, 1995b: 236; Radchenko, 2016: 230.

***ansei*.** *Temnothorax ansei* Catarineu, *et al.* 2017: 139, figs. 1-13 (w.q.m.) SPAIN.

***antera*.** *Leptothorax antera* Terayama & Onoyama, 1999: 78, fig. 16 (w.) JAPAN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271; Imai, *et al.* 2003: 155.

***antigoni*.** *Leptothorax (Temnothorax) antigoni* Forel, 1911d: 333 (w.) TURKEY.

Salata & Borowiec, 2015c: 133 (q.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Emery, 1924d: 259; Bolton, 1995b: 236; Bolton, 2003: 271; Kiran & Karaman, 2012: 25; Borowiec, L. 2014: 172; Salata & Borowiec, 2015c: 131 (redescription); Lebas, *et al.* 2016: 370; Borowiec, L. & Salata, 2018: 8; Salata & Borowiec, 2018c: 49.

***antoniae*.** *Leptothorax laurae* subsp. *antoniae* Cagniant, in Cagniant & Espadaler, 1997: 270, fig. 7 (w.q.) MOROCCO.

Subspecies of *laurae*: Cagniant, 2006a: 198.

***arabicus*.** *Temnothorax arabicus* Sharaf & Akbar, in Sharaf, Akbar, *et al.* 2017: 4, figs. 1-3 (w.) SAUDI ARABIA.

Status as species: Sharaf, Aldawood, Economo, *et al.* 2019: 4 (in key).

***arboreus*.** *Temnothorax arboreus* Snelling, R.R. *et al.* 2014: 38, figs. 5, 19, 24-26 (w.) U.S.A. (California).

***arcanus*.** *Leptothorax arcanus* Kutter, 1973b: 327, figs. 1-7 (m.) SWITZERLAND.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 1995b: 236; Bolton, 2003: 271; Borowiec, L. 2014: 172.

archangelskiji. *Leptothorax bulgaricus* subsp. *archangelskiji* Kuznetsov-Ugamsky, 1926a: 74, figs. 19-26 (w.q.m.) KAZAKHSTAN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of bulgaricus: Kuznetsov-Ugamsky, 1927d: 40.

Status as species: Dlussky, 1962: 179; Radchenko, 1994d: 156 (in key); Bolton, 1995b: 236; Radchenko, 1995c: 20; Bolton, 2003: 271.

archeri. *Croesomyrmex aguayoi* var. *archeri* Wheeler, W.M. 1931b: 26 (w.) CUBA.

Combination in *Macromischa (Croesomyrmex)*: Wheeler, W.M. 1937b: 465; combination in *Macromischa*: Brown, 1959e: 74.

Subspecies of *aguayoi*: Wheeler, W.M. 1937b: 465.

Status as species: Brown, 1959e: 74; Kempf, 1972a: 136; Alayo, 1974: 15 (in key).

Junior synonym of *aguayoi*: Baroni Urbani, 1978b: 409; Brandão, 1991: 351; Bolton, 1995b: 236.

Junior synonym of *gundlachi*: Fontenla Rizo, 1997a: 50.

arenarius. *Leptothorax arenarius* Santschi, 1908: 527, fig. 10 (w.q.l.) TUNISIA.

Santschi, 1910b: 62 (m.).

Combination in *L. (Temnothorax)*: Santschi, 1918a: 32;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Santschi, 1910b: 62; Emery, 1924d: 259; Kugler, J. 1988: 257; Bolton, 1995b: 236; Bolton, 2003: 271; Vonshak, *et al.* 2009: 44; Borowiec, L. 2014: 172 (see note in bibliography).

Current subspecies: nominal plus *fusciventris*.

argentipes. *Leptothorax argentipes* Wheeler, W.M. 1928c: 25 (w.q.) CHINA (Fujian).

[Unjustified emendation to *argentipex* by Wheeler, W.M. 1929g: 55 (footnote), Wheeler, W.M. 1930h: 69.]

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Wheeler, W.M. 1930h: 69; Chapman & Capco, 1951: 110; Radchenko, 1994d: 153 (in key); Radchenko, 1996c: 18; Bolton, 2003: 271; Radchenko, 2004: 121; Zhou, *et al.* 2010: 11 (in key); Guénard & Dunn, 2012: 54.

ariadnae. *Temnothorax ariadnae* Csösz, Heinze & Mikó, 2015: 42, figs. 25A-C (w.) GREECE (Crete I.).

Status as species: Lebas, *et al.* 2016: 368; Salata, Borowiec & Trichas, 2018: 772 (redescription); Salata & Borowiec, 2018c: 49.

arimensis. *Leptothorax (Leptothorax) arimensis* Azuma, 1953: 3 (w.) JAPAN.

[Also described as new by Azuma, 1977: 114.]

Azuma, 1977: 114 (q.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Onoyama, 1980: 194 (as *nomen nudum*), 212; Ogata, 1991b: 96; Morisita, *et al.* 1992: 28; Bolton, 1995b: 236; Radchenko, 1996c: 18; Terayama & Onoyama, 1999: 80 (redescription); Bolton, 2003: 271; Imai, *et al.* 2003: 157.

armouri. *Leptothorax risii* subsp. *armouri* Wheeler, W.M. 1927g: 111 (w.) SPAIN (Canary Is.).

Subspecies of *risii*: Wellenius, 1955: 10; Báez & Ortega, 1978: 190; Barquin Diez, 1981: 267.

Junior synonym of *risii*: Hohmann, *et al.* 1993: 151; Bolton, 1995b: 236.

arnoldii. *Temnothorax arnoldii* Radchenko & Fedoseeva, in Radchenko, Yusupov & Fedoseeva, 2015: 166, figs. 4-6 (w.) RUSSIA (North-West Caucasus).

- arpini***. *Leptothorax arpini* Tarbinsky, 1976: 91, figs. 148-150, 189 (w.) KYRGYZSTAN.
Combination in *Temnothorax*: Bolton, 2003: 271.
- Status as species:** Radchenko, 1994d: 150 (in key); Bolton, 1995b: 236; Radchenko, 1995d: 10; Bolton, 2003: 271; Schultz, R. et al. 2006: 203.
- Senior synonym of *narinicus*:** Radchenko, 1994d: 150 (in key); Bolton, 1995b: 236; Radchenko, 1995d: 10; Schultz, R. et al. 2006: 203.
- artvinensis***. *Temnothorax artvinense* Seifert, 2006: 10, figs. 11-13 (w.q.) TURKEY.
Status as species: Kiran & Karaman, 2012: 25; Borowiec, L. 2014: 173; Csösz, Heinze & Mikó, 2015: 50 (redescription).
- atlantis***. *Leptothorax atlantis* Santschi, 1911a: 13, fig. 9 (w.) ALGERIA.
Cagniant & Espadaler, 1997: 277 (q.m.).
Combination in *Temnothorax*: Bolton, 2003: 271.
- Subspecies of *normandi*:** Santschi, 1921b: 426.
- Subspecies of *angustulus*:** Cagniant, 1970a: 420; Bolton, 1995b: 236.
- Status as species:** Emery, 1924d: 253; Bernard, 1945: 134; Cagniant, 1964: 105; Cagniant & Espadaler, 1997: 276; Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 173; Lebas, et al. 2016: 344; Galkowski & Cagniant, 2017: 187.
Current subspecies: nominal plus *brunea*, *silvanus*, *suturalis*, *veneris*.
- atomus*** Forel, 1905 (unavailable name); see under **LEPTOTHORAX**.
- atomus***. *Leptothorax atomus* Cagniant & Espadaler, 1997: 274, figs. 16, 55 (w.q.m.) MOROCCO.
Combination in *Temnothorax*: Bolton, 2003: 271.
- Status as species:** Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 173.
- atrinodis***. *Macromischa (Macromischa) squamifera* var. *atrinodis* Mann, 1920: 412, fig. 2 (w.q.) CUBA.
Subspecies of *squamifer*: Kempf, 1972a: 138; Alayo, 1974: 35.
Junior synonym of *squamifer*: Wheeler, W.M. 1931b: 21; Baroni Urbani, 1978b: 508; Brandão, 1991: 353; Bolton, 1995b: 236.
- augusti***. *Leptothorax (Macromischa) augusti* Baroni Urbani, 1978b: 423.
Replacement name for *Macromischa foreli* Aguayo, 1931: 182. [Junior secondary homonym of *Leptothorax foreli* Santschi, 1907: 330.]
Combination in *Temnothorax*: Bolton, 2003: 271.
- Status as species:** Brandão, 1991: 353; Bolton, 1995b: 236; Bolton, 2003: 271.
- auresianus***. *Leptothorax auresianus* Santschi, 1929e: 158, figs. 11, 12 (w.) ALGERIA.
Combination in *Temnothorax*: Bolton, 2003: 271.
- Status as species:** Cagniant, 1968a: 144; Cagniant, 1970a: 423; Bolton, 1995b: 236; Bolton, 2003: 271; Borowiec, L. 2014: 173.
- aveli***. *Leptothorax aveli* Bondroit, 1918: 127, fig. 62 (w.) FRANCE.
[Misspelled as *aveti* by Emery, 1924d: 253.]
Combination in *Temnothorax*: Bolton, 2003: 271.
- Status as species:** Emery, 1924d: 253; Bernard, 1967: 216; Bolton, 1995b: 236; Bolton, 2003: 271; Casevitz-Weulersse & Galkowski, 2009: 494; Plateaux & Cagniant, 2013: 430; Borowiec, L. 2014: 173 (see note in bibliography); Lebas, et al. 2016: 348.
- Senior synonym of *berlandi*:** Casevitz-Weulersse & Galkowski, 2009: 494; Plateaux & Cagniant, 2013: 430.

Senior synonym of *pici*: Casevitz-Weulersse & Galkowski, 2009: 494; Plateaux & Cagniant, 2013: 430.

Senior synonym of *rabaudi*: Casevitz-Weulersse & Galkowski, 2009: 494; Plateaux & Cagniant, 2013: 430.

***aztecus*.** *Macromischa azteca* Wheeler, W.M. 1931b: 8 (w.q.m.) MEXICO (Veracruz).

Combination in *Leptothorax (Macromischa)*: Baroni Urbani, 1978b: 425;
combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Wheeler, W.M. 1937b: 464; Kempf, 1972a: 136; Baroni Urbani, 1978b: 425 (redescription); Brandão, 1991: 351; Bolton, 1995b: 236; Bolton, 2003: 271; Branstetter & Sáenz, 2012: 261.

Senior synonym of *maya*: Baroni Urbani, 1978b: 425; Brandão, 1991: 351; Bolton, 1995b: 236.

baborensis Cagniant, 1970 (unavailable name); see under **LEPTOTHORAX**

***babuganicus*.** *Leptothorax pithyusae* subsp. *babuganicus* Arnol'di, 1977a: 201 (w.) RUSSIA (Crimea).

Subspecies of *pithyusae*: Arnol'di & Dlussky, 1978: 542 (in key).

Subspecies of *tauricus*: Bolton, 1995b: 236.

Junior synonym of *tauricus*: Radchenko, 1995c: 16; Radchenko, 2016: 228

***baeticus*.** *Leptothorax baeticus* Emery, 1924c: 165, fig. A2-3 (w.) SPAIN.

[Misspelled as *boeticus* by Santschi, 1931a: 5, and others.]

Santschi, 1931a: 5 (q.); Tinaut, 1989: 51 (m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Santschi, 1931a: 5; Ceballos, 1956: 306; Collingwood & Yarrow, 1969: 69; Collingwood, 1978: 83 (in key); Bolton, 1995b: 236; Bolton, 2003: 271; Borowiec, L. 2014: 173; Galkowski & Lebas, 2016: 83 (in key); Lebas, *et al.* 2016: 372.

***bajaraniensis*.** *Temnothorax bajaraniensis* Reyes-López & Carpintero-Ortega, 2013: 24, figs. 1-5 (w.q.) SPAIN.

***balcanica*.** *Leptothorax rottenbergi* var. *balcanica* Santschi, 1909b: 474, fig. 7 (w.) BULGARIA.

[Misspelled as *Rbalcanica* by Santschi, 1926f: 287.]

Subspecies of *rottenbergi*: Emery, 1924d: 252; Santschi, 1926f: 287.

Junior synonym of *semiruber*: Agosti & Collingwood, 1987a: 56; Bolton, 1995b: 236; Legakis, 2011: 17; Salata, Borowiec & Trichas, 2018: 796.

***balchashensis*.** *Leptothorax balchashensis* Arnol'di, 1971: 1822, fig. 2(1-4) (w.q.m.) KAZAKHSTAN.

Status as species: Dlussky, 1981a: 17; Bolton, 1995b: 236.

Junior synonym of *melleus*: Radchenko, 1995a: 26.

***balli*.** *Leptothorax balli* Santschi, 1939c: 3, fig. 1 (w.) MOROCCO.

Status as species: Bolton, 1995b: 236.

Junior synonym of *tyndalei*: Cagniant & Espadaler, 1997: 273.

***banao*.** *Leptothorax banao* Fontenla Rizo, 1998: 63, fig. 2 (w.) CUBA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Fontenla Rizo, 2001: 16 (in key); Bolton, 2003: 271.

***barbarus*.** *Leptothorax (Temnothorax) recedens* var. *barbarus* Santschi, 1939d: 76 (w.q.) TUNISIA.

Subspecies of *recedens*: Bolton, 1995b: 236.

Junior synonym of *recedens*: Cagniant & Espadaler, 1997: 268; Radchenko, 2016: 226; Salata, Borowiec & Trichas, 2018: 793.

barbouri. *Macromischa barbouri* Aguayo, 1931: 176 (w.) CUBA.

Combination in *Leptothorax (Macromischa)*: Baroni Urbani, 1978b: 427; combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Wheeler, W.M. 1937b: 464; Kempf, 1972a: 136; Alayo, 1974: 15 (in key); Baroni Urbani, 1978b: 427 (redescription); Brandão, 1991: 351; Bolton, 1995b: 236; Fontenla Rizo, 1997a: 48; Fontenla Rizo, 2001: 17 (in key); Bolton, 2003: 271.

barroi. *Macromischa (Croesomyrmex) barroi* Aguayo, 1931: 179 (w.) CUBA.

Combination in *Leptothorax (Macromischa)*: Baroni Urbani, 1978b: 428; combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Wheeler, W.M. 1937b: 465; Kempf, 1972a: 136; Alayo, 1974: 15 (in key); Baroni Urbani, 1978b: 428 (redescription); Brandão, 1991: 351; Bolton, 1995b: 236; Fontenla Rizo, 1997a: 49; Fontenla Rizo, 2001: 16 (in key); Bolton, 2003: 271.

barryi. *Leptothorax barryi* Cagniant, 1967b: 272, 2 figs. (w.) ALGERIA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Cagniant, 1968a: 144; Cagniant, 1970a: 428; Bolton, 1995b: 236; Bolton, 2003: 271; Borowiec, L. 2014: 173.

basara. *Leptothorax basara* Terayama & Onoyama, 1999: 80, fig. 19 (w.) JAPAN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271; Imai, *et al.* 2003: 154.

berlandi. *Leptothorax berlandi* Bondroit, 1918: 130 (w.) FRANCE.

Combination in *Temnothorax*: Bolton, 2003: 271.

Junior synonym of *rabaudi*: Bernard, 1956a: 163; Bernard, 1967: 210.

Status as species: Emery, 1924d: 253; Collingwood & Yarrow, 1969: 72; Collingwood, 1978: 85 (in key); Bolton, 1995b: 236; Espadaler, 1997b: 30; Bolton, 2003: 271.

Junior synonym of *aveli*: Casevitz-Weulersse & Galkowski, 2009: 4494; Plateaux & Cagniant, 2013: 430.

bermudezi. *Croesomyrmex bermudezi* Wheeler, W.M. 1931b: 26 (w.) CUBA.

Wheeler, G.C. & Wheeler, J. 1955b: 18 (l.).

Combination in *Macromischa (Croesomyrmex)*: Wheeler, W.M. 1937b: 465;

combination in *Leptothorax (Macromischa)*: Baroni Urbani, 1978b: 429;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Aguayo, 1932: 223; Kempf, 1972a: 136; Alayo, 1974: 15 (in key); Baroni Urbani, 1978b: 429 (redescription); Brandão, 1991: 351; Bolton, 1995b: 236; Fontenla Rizo, 1997a: 49; Fontenla Rizo, 2001: 16 (in key); Bolton, 2003: 271.

Senior synonym of *anemicus*: Fontenla Rizo, 1997a: 49.

Senior synonym of *mutabilis*: Baroni Urbani, 1978b: 429; Brandão, 1991: 351; Bolton, 1995b: 236; Fontenla Rizo, 1997a: 49.

bernardi. *Epimyrma bernardi* Espadaler, 1982a: 1, figs. 1-11 (w.q.) SPAIN.

Combination in *Temnothorax*: Ward, *et al.* 2015: 75.

Status as species: Buschinger, 1989: 267; Schulz, A. 1994b: 432; Bolton, 1995b: 188; Buschinger, 1995: 75; Buschinger, 1997: 8; Tinaut, Ruano & Martinez, 2005: 458; Borowiec, L. 2014: 137; Lebas, *et al.* 2016: 328.

bestelmeyeri. *Leptothorax (Myrafant) bestelmeyeri* Mackay, 2000: 318, figs. 26, 41, 42, 87-89 (w.) U.S.A. (New Mexico).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Mackay & Mackay, 2002: 117; Bolton, 2003: 271.

beyrichi* Mayr, 1868; see under **VOLLENHOVIA.

bicolor. *Leptocephalus (Myrafant) bicolor* Mackay, 2000: 320, figs. 23, 25, 90, 91 (w.) MEXICO (Chiapas).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271.

bierigi. *Macromischa (Croesomyrmex) bierigi* Santschi, 1931c: 273, fig. 7 (w.) CUBA.

Subspecies of *aguayoi*: Wheeler, W.M. 1937b: 465.

Junior synonym of *archeri*: Brown, 1959e: 74; Kempf, 1972a: 136.

Junior synonym of *aguayoi*: Baroni Urbani, 1978b: 409; Brandão, 1991: 351; Bolton, 1995b: 236.

Junior synonym of *gundlachi*: Fontenla Rizo, 1997a: 50.

bikara. *Leptocephalus bikara* Terayama & Onoyama, 1999: 81, figs. 20, 21 (w.) JAPAN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271; Imai, *et al.* 2003: 155.

bimbache. *Temnothorax bimbache* Espadaler, 2007: 120, figs. 1 – 3 (w.q.) SPAIN (Canary Is: El Hierro I.).

Status as species: Borowiec, L. 2014: 174.

birgitae. *Epimyrma birgitae* Schulz, A. 1994b: 432, figs. 1, 2 (q.m.) SPAIN (Canary Is).

Combination in *Temnothorax*: Ward, *et al.* 2015: 75.

Status as species: Buschinger, 1997: 8; Borowiec, L. 2014: 137.

blascoi. *Leptocephalus blascoi* Espadaler, 1997a: 152 (w.q.m.) SPAIN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271; Borowiec, L. 2014: 174; Lebas, *et al.* 2016: 370; Catarineu, *et al.* 2017: 143 (in key).

boccaris. *Leptocephalus exilis* var. *boccaris* Santschi, 1923f: 331 (w.) TUNISIA.

[Misspelled as *bocaris* by Santschi, 1929e: 153.]

Subspecies of *exilis*: Santschi, 1929e: 153.

Junior synonym of *exilis*: Baroni Urbani, 1971d: 1041; Bolton, 1995b: 236; Salata, Borowiec & Trichas, 2018: 778.

boeticus, misspelling, see under *baeticus*.

boiteli. *Leptocephalus flavispinus* st. *boiteli* Santschi, 1929e: 152 (w.) ALGERIA.

Subspecies of *flavispinus*: Santschi, 1939d: 76 (in key); Bolton, 1995b: 236.

Junior synonym of *santschii*: Cagniant & Espadaler, 1997: 276.

bordagei. *Leptocephalus angustulus* var. *bordagei* Bondroit, 1918: 137 (w.) FRANCE.

Subspecies of *angustulus*: Emery, 1924d: 252; Bolton, 1995b: 236.

Junior synonym of *angustulus*: Casevitz-Weulersse & Galkowski, 2009: 494; Galkowski & Cagniant, 2017: 185.

brackoi. *Temnothorax brackoi* Salata & Borowiec, 2019b: 93, figs. 1, 2, 9, 13 (w.) GREECE (Peloponnese, Epirus, Ionian Is, Macedonia, Sterea Ellas, Thessaly), CROATIA.

bradleyi. *Leptocephalus bradleyi* Wheeler, W.M. 1913c: 113 (w.) U.S.A. (Georgia).

Wilson, 1952a: 69 (q.m.).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 817;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Emery, 1924d: 258; Creighton, 1950a: 263; Smith, M.R. 1951a: 817; Wilson, 1952a: 67 (redescription); Smith, M.R. 1958c: 131; Smith, D.R. 1979: 1392; Deyrup, *et al.* 1989: 97; Bolton, 1995b: 236; Mackay, 2000: 321 (redescription); Bolton, 2003: 271; Deyrup, 2003: 45; Deyrup & Cover, 2004a: 56 (in key); MacGown & Forster, 2005: 72; Deyrup, 2017: 144.

brasiliensis Borgmeier, 1952 [*Macromischa*]; see under **ROGERIA**.

brauneri. *Leptothorax servicus* var. *brauneri* Ruzsky, 1905b: 603 (w.) GEORGIA, RUSSIA.

Radchenko, 1995d: 4 (m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of servicus: Emery, 1924d: 255.

Status as species: Arnol'di, 1977a: 203; Arnol'di & Dlussky, 1978: 540 (in key); Radchenko, 1994d: 149 (in key); Bolton, 1995b: 236; Radchenko, 1995d: 4; Bolton, 2003: 271; Gratiashvili & Barjadze, 2008: 142; Borowiec, L. 2014: 174.

brauneri. *Leptothorax (Leptothorax) tuberum* var. *brauneri* Karavaiev, 1937: 172, fig. 2 (w.) UKRAINE.

[**Junior primary homonym** of *Leptothorax servicus* var. *brauneri* Ruzsky, 1905b: 603.]

Subspecies of *tuberum*: Bolton, 1995b: 236 (as unresolved homonym).

Replacement name: *Leptothorax tuberum brauniella* Radchenko, 1995c: 15.

Junior synonym of unifasciatus: Radchenko, 1995c: 15; Radchenko, 2016: 230.

brauniella. *Leptothorax tuberum brauniella* Radchenko, 1995c: 15.

Replacement name for *Leptothorax (Leptothorax) tuberum* var. *brauneri* Karavaiev, 1937: 172. [Junior primary homonym of *Leptothorax servicus* var. *brauneri* Ruzsky, 1905b: 603.]

Junior synonym of *unifasciatus*: Radchenko, 1995c: 15; Radchenko, 2016: 230.

brevidentis. *Temnothorax brevidentis* Prebus, 2015: 30, figs. 4a, 5 (w.) KENYA.

brevispinosus. *Leptothorax (Myrafant) brevispinosus* Mackay, 2000: 323, figs. 24, 95 (w.q.m.) MEXICO (Michoacan).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271.

brevispinus. *Leptothorax brevispinus* Chang & He, 2001b: 2, figs. 1, 5, 9 (w.) CHINA (Ningxia).

Combination in *Temnothorax*: Zhou, *et al.* 2010: 10 (in key).

Status as species: Zhou, *et al.* 2010: 10 (in key); Guénard & Dunn, 2012: 54.

bristoli. *Leptothorax (Myrafant) bristoli* Mackay, 2000: 326, figs. 28, 96 (w.) U.S.A. (Texas), MEXICO (Coahuila).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271.

brunea. *Leptothorax angustus* var. *brunea* Santschi, 1918a: 35.

[First available use of *Leptothorax angustulus* st. *algiricus* var. *brunea* Santschi, 1911a: 13 (w.) ALGERIA; unavailable (infrasubspecific) name.]

As unavailable (infrasubspecific) name: Emery, 1924d: 253.

Subspecies of angustulus: Bolton, 1995b: 236.

Junior synonym of *atlantis*: Cagniant & Espadaler, 1997: 277.

Subspecies of atlantis: Galkowski & Cagniant, 2017: 187.

bruneri. *Macromischa (Macromischa) bruneri* Mann, 1924: 19 (w.) CUBA.

Combination in *Leptothorax (Macromischa)*: Baroni Urbani, 1978b: 431; combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Wheeler, W.M. 1937b: 456, 464; Kempf, 1972a: 136; Alayo, 1974: 17 (in key); Baroni Urbani, 1978b: 431 (redescription); Brandão, 1991: 351; Bolton, 1995b: 236; Fontenla Rizo, 2001: 17 (in key); Bolton, 2003: 271.

Senior synonym of *imitatrix*: Baroni Urbani, 1978b: 431; Brandão, 1991: 351; Bolton, 1995b: 236.

Senior synonym of *ornatipes*: Baroni Urbani, 1978b: 431; Brandão, 1991: 351; Bolton, 1995b: 236.

Senior synonym of *proxima*: Baroni Urbani, 1978b: 431; Brandão, 1991: 351; Bolton, 1995b: 236.

brunneipes. *Macromischa scabripes* var. *brunneipes* Wheeler, W.M. 1937b: 449 (w.) CUBA.

Subspecies of *scabripes*: Kempf, 1972a: 138; Alayo, 1974: 36.

Junior synonym of *scabripes*: Baroni Urbani, 1978b: 496; Brandão, 1991: 352; Bolton, 1995b: 236.

Junior synonym of *splendens*: Fontenla Rizo, 1997a: 52.

brunnescens. *Leptothorax rugatulus* subsp. *brunnescens* Wheeler, W.M. 1917a: 510 (w.) U.S.A. (Colorado).

Wheeler, G.C. & Wheeler, J. 1955b: 25 (l.).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 819.

Subspecies of *rugatulus*: Emery, 1924d: 259; Creighton, 1950a: 269; Smith, M.R. 1951a: 819; Smith, M.R. 1958c: 132; Smith, M.R. 1967: 359; Smith, D.R. 1979: 1394; Bolton, 1995b: 236.

Junior synonym of *rugatulus*: Mackay, 2000: 394; Snelling, R.R. et al. 2014: 73.

brunneus. *Chalepoxenus brunneus* Cagniant, 1985a: 141, figs. 1-5 (q.m.) MOROCCO.

Combination in *Temnothorax*: Ward, et al. 2015: 75.

Status as species: Buschinger, Erhardt, Fischer & Ofer, 1988: 391; Buschinger, Cagniant, Erhardt & Heinze, 1989: 253; Bolton, 1995b: 145; Cagniant & Espadaler, 1997: 282; Cagniant, 2006a: 198; Borowiec, L. 2014: 63.

bucheti. *Leptothorax bucheti* Santschi, 1909b: 480, fig. 10 (w.q.) MOROCCO.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Emery, 1924d: 251; Cagniant, 1970a: 419; Bolton, 1995b: 236; Cagniant & Espadaler, 1997: 279; Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 174 (see note in bibliography).

Current subspecies: nominal plus *festai*, *mixtus*, *tuneticus*.

bugnioni. *Leptothorax bugnioni* Forel, 1894d: 33 (w.q.) ALGERIA.

Cagniant & Espadaler, 1997: 280 (m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Santschi, 1909b: 463 (redescription); Emery, 1924d: 251; Cagniant, 1968a: 144; Cagniant, 1970a: 419; Bolton, 1995b: 236; Cagniant & Espadaler, 1997: 280; Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 174.

bulgaricus. *Leptothorax bulgaricus* Forel, 1892i: 314, pl. 5, fig. 5 (w.) BULGARIA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Dalla Torre, 1893: 123; Ruzsky, 1905b: 574; Forel, 1913d: 432; Müller, 1923b: 90; Emery, 1924d: 253; Agosti & Collingwood, 1987a: 55; Agosti & Collingwood, 1987b: 275 (in key); Atanassov & Dlussky, 1992: 135; Collingwood,

1993b: 194; Bolton, 1995b: 236; Bolton, 2003: 271; Petrov, 2006: 97 (in key); Vonshak, *et al.* 2009: 44; Lapeva-Gjonova, *et al.* 2010: 21; Legakis, 2011: 17; Borowiec, L. & Salata, 2012: 540; Kiran & Karaman, 2012: 25; Borowiec, L. & Salata, 2013: 372; Borowiec, L. 2014: 174 (see note in bibliography); Bracko, *et al.* 2014: 15; Borowiec, L. & Salata, 2018: 8; Salata & Borowiec, 2018c: 49.

Current subspecies: nominal plus *cypridis*.

cabrerae. *Leptocephalus cabrerae* Forel, 1893d: 464 (w.) SPAIN (Canary Is).

[Also described as new by Forel, 1894a: 160.]

Santschi, 1909b: 465 (q.).

Combination in *Temnocephalus*: Bolton, 2003: 271.

Status as species: Santschi, 1908: 517; Santschi, 1909b: 465 (redescription); Emery, 1924d: 252; Wheeler, W.M. 1927g: 109; Wellenius, 1955: 9; Baez & Ortega, 1978: 189; Barquin Diez, 1981: 234; Hohmann, *et al.* 1993: 149; Bolton, 1995b: 237; Bolton, 2003: 271; Borowiec, L. 2014: 175.

Senior synonym of *stitti*: Hohmann, *et al.* 1993: 149; Bolton, 1995b: 237.

caesari. *Leptocephalus caesari* Espadaler, 1997c: 146, figs. 1-6 (w.q.m.) SPAIN.

Combination in *Temnocephalus*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271; Borowiec, L. 2014: 175; Galkowski & Lebas, 2016: 84 (in key); Lebas, *et al.* 2016: 370; Catarineu, *et al.* 2017: 143 (in key).

cagnianti. *Leptocephalus cagnianti* Tinaut, 1983: 319, figs. 1-5 (w.m.) SPAIN.

Combination in *Temnocephalus*: Bolton, 2003: 271.

Status as species: Bolton, 1995b: 237; Cagniant & Espadaler, 1997: 269; Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 175; Galkowski & Lebas, 2016: 84 (in key).

caguatan. *Temnocephalus caguatan* Snelling, R.R. *et al.* 2014: 41, figs. 1, 6-8, 20, 24-26 (w.q.m.) U.S.A. (California, Oregon), MEXICO (Baja California).

canescens. *Leptocephalus canescens* Santschi, 1908: 526 (q.) SPAIN (Canary Is).

Santschi, 1919g: 407 (w.).

Combination in *Temnocephalus*: Bolton, 2003: 271.

Status as species: Santschi, 1919g: 407; Emery, 1924d: 253; Wheeler, W.M. 1927g: 109; Wellenius, 1955: 10; Baez & Ortega, 1978: 189; Barquin Diez, 1981: 294; Hohmann, *et al.* 1993: 150; Bolton, 1995b: 237; Bolton, 2003: 271; Borowiec, L. 2014: 175.

carinatus. *Leptocephalus (Leptocephalus) carinatus* Cole, 1957d: 213, fig. 1 (w.q.) U.S.A. (Texas).

Wheeler, G.C. & Wheeler, J. 1973b: 70 (l.).

Combination in *L. (Myrafant)*: Smith, D.R. 1979: 1392;

combination in *Temnocephalus*: Bolton, 2003: 271.

Status as species: Cole, 1958c: 537; Smith, M.R. 1967: 358; Hunt & Snelling, 1975: 22; Smith, D.R. 1979: 1392; Wheeler, G.C. & Wheeler, J. 1986g: 52; Bolton, 1995b: 237; Mackay, 2000: 328 (redescription); Mackay & Mackay, 2002: 117; Bolton, 2003: 271; Snelling, R.R. *et al.* 2014: 49.

carinthiacus. *Leptocephalus carinthiacus* Bernard, 1957a: 46, figs. 1, 2 (w.q.m.) AUSTRIA.

Status as species: Bernard, 1967: 203 (redescription); Agosti & Collingwood, 1987a: 55; Agosti & Collingwood, 1987b: 274 (in key); Poldi, *et al.* 1995: 4; Petrov, 2006: 96 (in key) (error).

Junior synonym of *sordidulus*: Schulz, A. 1991: 121; Bolton, 1995b: 237; Seifert, 1995: 1 (in text); Seifert, 2006: 8; Karaman, M.G. 2011b: 33; Csösz, Heinze & Mikó, 2015: 55.

- caucasicus*. *Leptothorax caucasicus* Arnol'di, 1977a: 198 (w.) GEORGIA, ARMENIA.
 Radchenko, 1995d: 6 (q.m.).
 Status as species: Arakelian, 1994: 55; Radchenko, 1994d: 154 (in key); Bolton, 1995b: 237; Radchenko, 1995d: 5; Bolton, 2003: 271 (error).
 Junior synonym of *nadigi*: Schulz, A. in Czechowski, *et al.* 2002: 55; Gratiashvili & Barjadze, 2008: 142; Czechowski, *et al.* 2012: 157.
- cenatus*. *Leptothorax cenatus* Bolton, 1982: 327, figs. 11, 15 (w.) KENYA.
 Combination in *Temnothorax*: Bolton, 2003: 271.
Status as species: Bolton, 1995b: 237; Bolton, 2003: 271; Hita Garcia, *et al.* 2013: 217; Prebus, 2015: 33 (redescription).
- cervantesi*. *Leptothorax cervantesi* Santschi, 1919e: 242, fig. 1 (w.) SPAIN.
 Status as species: Menozzi, 1922b: 328; Ceballos, 1956: 306; Collingwood & Yarrow, 1969: 70; Collingwood, 1978: 85 (in key); Bolton, 1995b: 237.
 Junior synonym of *tyndalei*: Cagniant & Espadaler, 1997: 273.
- chandleri*. *Leptothorax (Myrafant) chandleri* Mackay, 2000: 330, figs. 35, 99 (w.) U.S.A. (California).
 Combination in *Temnothorax*: Bolton, 2003: 271.
Status as species: Bolton, 2003: 271; Ward, 2005: 68; Snelling, R.R. *et al.* 2014: 49.
- chloana*. *Macromischa chloana* Wheeler, W.M. 1937b: 454 (w.) CUBA.
 Junior synonym of *dissimilis*: Brown, 1959e: 74; Kempf, 1972a: 136; Baroni Urbani, 1978b: 439; Brandão, 1991: 351; Bolton, 1995b: 237.
- chobauti*. *Leptothorax rusticus* var. *chobauti* Santschi, 1923f: 330 (w.) ALGERIA.
 Subspecies of *oraniensis*: Bolton, 1995b: 237.
 Junior synonym of *oraniensis*: Cagniant & Espadaler, 1997: 269.
- ciferrii*. *Macromischa (Antillaemyrmex) ciferrii* Menozzi & Russo, 1930: 160, fig. 5 (w.) DOMINICAN REPUBLIC.
 Combination in *Antillaemyrmex*: Wheeler, W.M. 1931b: 32;
 combination in *Leptothorax (Macromischa)*: Baroni Urbani, 1978b: 433;
 combination in *Temnothorax*: Bolton, 2003: 271.
Status as species: Wheeler, W.M. 1937b: 465; Kempf, 1972a: 136; Baroni Urbani, 1978b: 433 (redescription); Brandão, 1991: 351; Bolton, 1995b: 237; Bolton, 2003: 271; Lubertazzi, 2019: 187.
- cingulata*. *Myrmica cingulata* Schenck, 1852: 104 (w.q.m.) GERMANY.
 [Also described as new by Schenck, 1853: 188.]
 Status as species: Nylander, 1856b: 93; Dours, 1873: 168.
 Junior synonym of *nylanderi*: Mayr, 1855: 447; Nylander, 1856b: 93; Smith, F. 1858a: 280; Smith, F. 1858b: 120; Mayr, 1861: 59 (in key); Roger, 1863b: 26; Mayr, 1863: 427; Smith, F. 1871b: 3; André, 1874: 203 (in list); Forel, 1874: 102 (in list); Emery & Forel, 1879: 459; Dalla Torre, 1893: 125; Ruzsky, 1905b: 597; Donisthorpe, 1915d: 155; Forel, 1915d: 22 (in key); Emery, 1924d: 255; Donisthorpe, 1927b: 173; Karavaiev, 1934: 137; Ceballos, 1956: 306; Collingwood, 1978: 70; Bolton, 1995b: 237; Casevitz-Weulersse & Galkowski, 2009: 495.
 [Note: Nylander, 1856b: 93, gives *cingulata* as senior synonym, but *nylanderi* has priority.]
- ciscaucasicus*. *Leptothorax tuberum* subsp. *ciscaucasicus* Arnol'di, 1977a: 204 (w.q.) RUSSIA.
 Subspecies of *tuberum*: Arnol'di & Dlussky, 1978: 543 (in key); Bolton, 1995b: 237.
 Junior synonym of *tuberum*: Radchenko, 1995c: 14; Radchenko, 2016: 229.
- clivulus*. *Leptothorax flavispinus* var. *clivulus* Santschi, 1939d: 76 (w.) TUNISIA.

Subspecies of *flavispinus*: Bolton, 1995b: 237.

clypeatus. *Myrmica clypeata* Mayr, 1853c: 282 (w.) AUSTRIA.

Stitz, 1914: 62 (q.m.); Emery, 1916b: 183 (q.); Jaeger, 1933: 101 (m.).

Combination in *Leptothorax*: Mayr, 1855: 436;

combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of *tuberum*: Soudek, 1922: 52.

Status as species: Mayr, 1855: 436 (redescription); Smith, F. 1858b: 118; Mayr, 1861: 58 (in key); Roger, 1863b: 26; Mayr, 1863: 427; Dours, 1873: 168; André, 1874: 189 (in key); Emery, 1878b: 51; Emery & Forel, 1879: 459; André, 1883a: 296 (in key); Dalla Torre, 1893: 123; Stitz, 1914: 62; Forel, 1915d: 22 (in key); Emery, 1916b: 174; Bondroit, 1918: 125; Menozzi, 1918: 85; Bondroit, 1920a: 154; Bondroit, 1920b: 304; Müller, 1923b: 86 (in key); Emery, 1924d: 253; Finzi, 1924b: 122; Jaeger, 1933: 101; Grandi, 1935: 101; Stitz, 1939: 177; Novák, in Novák & Sadil, 1941: 90 (in key); Novák, in Kratochvíl, *et al.* 1944: 113; Consani & Zangheri, 1952: 41; Bernard, 1956a: 161; Bernard, 1967: 202 (redescription); Baroni Urbani, 1971c: 103; Collingwood, 1971: 161; Pisarski, 1975: 20; Arnol'di & Dlussky, 1978: 541 (in key); Agosti & Collingwood, 1987a: 55; Agosti & Collingwood, 1987b: 275 (in key); Casevitz-Weulersse, 1990c: 418 (in key); Atanassov & Dlussky, 1992: 135; Radchenko, 1994d: 153 (in key); Bolton, 1995b: 237; Poldi, *et al.* 1995: 4; Radchenko, 1995c: 21; Collingwood & Prince, 1998: 16 (in key); Gallé, *et al.* 1998: 215; Czechowski, *et al.* 2002: 56; Markó & Csösz, 2002: 114; Bolton, 2003: 271; Bračko, 2006: 141; Markó, Sipos, *et al.* 2006: 70; Petrov, 2006: 97 (in key); Bračko, 2007: 18; Werner & Wiezik, 2007: 140; Casevitz-Weulersse & Galkowski, 2009: 494; Lapeva-Gjonova, *et al.* 2010: 21; Csösz, *et al.* 2011: 57; Legakis, 2011: 17; Borowiec, L. & Salata, 2012: 540; Czechowski, *et al.* 2012: 159; Borowiec, L. & Salata, 2013: 372; Borowiec, L. 2014: 175; Lebas, *et al.* 2016: 346; Radchenko, 2016: 219; Salata & Borowiec, 2018c: 49; Seifert, 2018: 202.

cockerelli. *Leptothorax rugatulus* var. *cockerelli* Wheeler, W.M. 1917a: 509.

[First available use of *Leptothorax curvispinosus* subsp. *rugatulus* var. *cockerelli* Wheeler, W.M. 1903c: 241 (w.q.) U.S.A. (New Mexico); unavailable (infrasubspecific) name.]

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 819.

As unavailable (infrasubspecific) name: Wheeler, W.M. 1910g: 567; Cole, 1937b: 136.

Subspecies of *rugatulus*: Emery, 1924d: 259; Smith, M.R. 1951a: 819.

Junior synonym of *rugatulus*: Creighton, 1950a: 269; Smith, M.R. 1958c: 132; Smith, D.R. 1979: 1394; Bolton, 1995b: 237; Mackay, 2000: 394; Snelling, R.R. *et al.* 2014: 72.

cokendolpheri. *Leptothorax (Myrafant) cokendolpheri* Mackay, 2000: 332, figs. 30, 100, 101 (w.q.) U.S.A. (New Mexico, Texas).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Mackay & Mackay, 2002: 119; Bolton, 2003: 271.

coleenae. *Leptothorax (Myrafant) coleenae* Mackay, 2000: 335, figs. 37, 102 (w.) U.S.A. (New Mexico).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Mackay & Mackay, 2002: 120; Bolton, 2003: 271.

colettae. *Leptothorax laurae* var. *colettae* Santschi, 1915a: 60, fig. 6 (w.) TUNISIA.

Subspecies of *laurae*: Emery, 1924d: 254; Bolton, 1995b: 237.

colorata Santschi, 1909 (unavailable name); see under **LEPTOTHORAX**.

conatensis. *Temnothorax conatensis* Galkowski & Lebas, 2016: 82, figs. 3-5 (w.q.) FRANCE.

confucii. *Tetramorium confucii* Forel, 1912a: 53 (w.q.) TAIWAN.

Combination in *Leptothorax*: Bolton, 1977: 70;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Emery, 1924d: 283; Wheeler, W.M. 1929g: 61; Teranishi, 1940: 57; Chapman & Capco, 1951: 175; Bolton, 1995b: 237; Bolton, 2003: 271; Lin & Wu, 2003: 64; Terayama, 2009: 180.

congruus. *Leptothorax congruus* Smith, F. 1874: 406 (w.) JAPAN.

Wheeler, W.M. 1906c: 317 (q.); Wheeler, G.C. & Wheeler, J. 1955b: 24 (l.); Imai & Kubota, 1972: 197 (k.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Dalla Torre, 1893: 123; Wheeler, W.M. 1906c: 316 (redescription); Yano, 1910: 420; Emery, 1924d: 253; Wheeler, W.M. 1929f: 7; Azuma, 1950: 35; Azuma, 1951: 87; Chapman & Capco, 1951: 110; Azuma, 1953: 3; Collingwood, 1976: 303; Azuma, 1977: 114; Onoyama, 1980: 197; Ogata, 1991b: 96; Morisita, *et al.* 1992: 29; Radchenko, 1994d: 150 (in key); Bolton, 1995b: 237; Radchenko, 1996c: 16; Terayama & Onoyama, 1999: 83 (redescription); Bolton, 2003: 271; Imai, *et al.* 2003: 157; Lyu & Cho, 2003b: 271; Radchenko, 2004: 121; Radchenko, 2005b: 148; Zhou, *et al.* 2010: 10 (in key); Guénard & Dunn, 2012: 54.

continentalis. *Temnothorax continentalis* Galkowski & Cagniant, 2017: 186, fig. 3 (w.) FRANCE, SPAIN.

convexotrabutii Forel, 1894 (unavailable name); see under **LEPTOTHORAX**.

convexus. *Leptothorax convexus* Forel, 1894d: 36 (w.) ALGERIA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Emery, 1924d: 253; Bolton, 1995b: 237; Cagniant & Espadaler, 1997: 278; Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 175; Galkowski & Cagniant, 2017: 188.

Senior synonym of *submuticus*: Cagniant & Espadaler, 1997: 278.

cordieri. *Leptothorax cordieri* Bondroit, 1918: 126, fig. 62 (w.) FRANCE (Corsica).

Status as species: Emery, 1924d: 253; Bernard, 1967: 216; Baroni Urbani, 1971c: 105.

Subspecies of *unifasciatus*: Plateaux & Cagniant, 2013: 429.

Junior synonym of *unifasciatus*: Casevitz-Weulersse, 1990c: 417; Bolton, 1995b: 237; Casevitz-Weulersse & Galkowski, 2009: 497; Radchenko, 2016: 230.

cornibrevis. *Leptothorax cornibrevis* Collingwood, 1961a: 63, fig. 8 (w.) AFGHANISTAN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Radchenko, 1994d: 152 (in key); Bolton, 1995b: 237; Radchenko, 1995a: 28; Bolton, 2003: 271.

corsicus. *Formicoxenus corsicus* Emery, 1895b: 68, fig. 2a-d (q.) FRANCE (Corsica).

Buschinger & Winter, 1985: 70 (m.).

Combination in *Epimyrma*: Emery, 1915a: 262;

combination in *Myrmoxenus*: Bračko, 2006: 139;

combination in *Temnothorax*: Ward, *et al.* 2015: 75.

Status as species: Emery, 1908f: 552; Emery, 1916b: 188; Bondroit, 1918: 140; Emery, 1924d: 263; Menozzi, 1931c: 48 (redescription); Bernard, 1967: 220 (redescription); Kutter, 1968b: 204; Baroni Urbani, 1971c: 130; Kutter, 1973e: 285; Agosti & Collingwood, 1987a: 56; Agosti & Collingwood, 1987b: 276 (in key); Buschinger &

Winter, 1985: 66; Buschinger, 1989: 267; Mei, 1992b: 146; Schulz, A. 1994b: 437; Bolton, 1995b: 188; Poldi, *et al.* 1995: 5; Buschinger, 1997: 8; Bračko, 2006: 139; Petrov, 2006: 99 (in key); Casevitz-Weulersse & Galkowski, 2009: 491; Borowiec, L. 2014: 137; Lebas, *et al.* 2016: 328.

corticalis. *Myrmica corticalis* Schenck, 1852: 100 (w.q.) GERMANY.

[Also described as new by Schenck, 1853: 187.]

Stitz, 1914: 63 (m.).

Combination in *Leptothorax*: Mayr, 1855: 440;
combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of tuberum: Forel, 1874: 85 (in key); Emery & Forel, 1879: 459; André, 1883a: 298; Forel, 1886e: clxviii; Forel, 1889: 257; Emery, in Dalla Torre, 1893: 127 (footnote); Emery, 1898c: 133; Ruzsky, 1902d: 21; Ruzsky, 1905b: 588; Bondroit, 1910: 497; Stitz, 1914: 63; Crawley, 1914a: 91 (in key); Escherich, 1917: 328 (in key); Soudek, 1922: 52; Gösswald, 1932: 92.

Status as species: Mayr, 1855: 440 (redescription); Gredler, 1858: 26; Smith, F. 1858b: 119; Mayr, 1861: 58 (in key); Roger, 1863b: 26; Mayr, 1863: 427; Dours, 1873: 168; André, 1874: 189 (in key); Dalla Torre, 1893: 123; Forel, 1911e: 268; Bondroit, 1912: 351; Donisthorpe, 1915d: 160; Forel, 1915d: 22 (in key); Emery, 1916b: 175; Bondroit, 1918: 124; Müller, 1923b: 86 (in key); Emery, 1924d: 253; Karavaiev, 1926f: 69; Stärcke, 1926: 94 (in key); Donisthorpe, 1927b: 179; Karavaiev, 1927c: 266 (in key); Arnol'di, 1933b: 599 (in key); Karavaiev, 1934: 136; Stitz, 1939: 174; Novák, in Novák & Sadil, 1941: 91 (in key); Novák, in Kratochvíl, *et al.* 1944: 114; Ceballos, 1956: 306; Bernard, 1956a: 163; Bernard, 1967: 213 (redescription); Kutter, 1968a: 60; Collingwood & Yarrow, 1969: 69; Baroni Urbani, 1971c: 105; Collingwood, 1971: 161; Pisarski, 1975: 20; Kutter, 1977c: 131; Collingwood, 1978: 85 (in key); Arnol'di & Dlussky, 1978: 541 (in key); Collingwood, 1979: 74; Agosti & Collingwood, 1987a: 55; Agosti & Collingwood, 1987b: 275 (in key); Atanassov & Dlussky, 1992: 137; Radchenko, 1994d: 157 (in key); Bolton, 1995b: 237; Douwes, 1995: 90; Poldi, *et al.* 1995: 4; Radchenko, 1995c: 19; Espadaler, 1997b: 30; Collingwood & Prince, 1998: 17 (in key); Gallé, *et al.* 1998: 215; Czechowski, *et al.* 2002: 54; Markó & Csösz, 2002: 114; Bolton, 2003: 271; Markó, Sipos, *et al.* 2006: 70; Petrov, 2006: 98 (in key); Bračko, 2007: 18; Seifert, 2007: 231; Werner & Wiezik, 2007: 140; Gratiashvili & Barjadze, 2008: 142; Casevitz-Weulersse & Galkowski, 2009: 494; Lapeva-Gjonova, *et al.* 2010: 21; Csösz, *et al.* 2011: 57; Legakis, 2011: 17; Borowiec, L. & Salata, 2012: 540; Czechowski, *et al.* 2012: 155; Kiran & Karaman, 2012: 25; Borowiec, L. 2014: 175; Lebas, *et al.* 2016: 348; Radchenko, 2016: 219; Salata & Borowiec, 2018c: 49; Seifert, 2018: 205.

corticalonylanderi Emery & Forel, 1879 (unavailable name); see under **LEPTOTHORAX**.

crasecundus. *Temnothorax crasecundus* Seifert & Csösz, 2015: 55, figs. 12-14 (w.q.m.) BULGARIA, ARMENIA, GEORGIA, GREECE, ROMANIA, RUSSIA (Krasnodar Krai, Kalmykia), TURKEY, UKRAINE.

Status as species: Csösz, Heinze & Mikó, 2015: 35 (redescription); Lebas, *et al.* 2016: 366; Radchenko, 2016: 382; Salata & Borowiec, 2018c: 49.

crassispinus. *Leptothorax (Leptothorax) nylanderi* var. *crassispina* Karavaiev, 1926f: 69 (w.q.) UKRAINE.

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of nylanderi: Karavaiev, 1927c: 266 (in key).

Junior synonym of *nylanderi*: Karavaiev, 1934: 137; Bolton, 1995b: 237; Radchenko, 1995d: 3.

Status as species: Radchenko, 2000: 44; Czechowski, *et al.* 2002: 50; Markó & Csösz, 2002: 114; Bolton, 2003: 271; Karaman, G.S. & Karaman, 2005: 55; Bračko, 2006: 141; Markó, Sipos, *et al.* 2006: 70; Bračko, 2007: 18; Seifert, 2007: 239; Werner & Wiezik, 2007: 149; Zryanin & Zryanina, 2007: 231; Lapeva-Gjonova, *et al.* 2010: 22; Csösz, *et al.* 2011: 57; Karaman, M.G. 2011b: 28; Borowiec, L. & Salata, 2012: 540; Czechowski, *et al.* 2012: 148; Kiran & Karaman, 2012: 25; Borowiec, L. 2014: 176; Bračko, *et al.* 2014: 15; Seifert & Csösz, 2015: 40; Csösz, Heinze & Mikó, 2015: 38 (redescription); Radchenko, 2016: 220; Salata & Borowiec, 2018c: 49; Seifert, 2018: 215.

Senior synonym of *slavonicus*: Radchenko, 2000: 44; Werner & Wiezik, 2007: 141; Csösz, *et al.* 2011: 57; Karaman, M.G. 2011b: 28; Czechowski, *et al.* 2012: 148; Csösz, Heinze & Mikó, 2015: 38; Lebas, *et al.* 2016: 366; Radchenko, 2016: 220.

***crassispinus*.** *Leptocephalus flavispinus* subsp. *crassispinus* Cagniant, 1970a: 421.

[First available use of *Leptocephalus flavispinus* st. *santschii* var. *crassispina* Santschi, 1911a: 11 (w.) TUNISIA; unavailable (infrasubspecific) name (Bolton, 1995b: 237).]

[Unresolved junior primary homonym of *Leptocephalus (Leptocephalus) nylanderi* var. *crassispina* Karavaiev, 1926f: 69.]

As unavailable (infrasubspecific) name: Emery, 1924d: 254; Santschi, 1929c: 100; Santschi, 1934f: 169; Santschi, 1939d: 75 (in key).

***crassistriatus*.** *Temnothorax crassistriatus* Salata, Borowiec & Trichas, 2018: 773, figs. 6-10 (w.) GREECE (Crete I.).

***creightoni*.** *Macromischa (Macromischa) creightoni* Mann, 1929: 163, fig. 2 (w.q.) CUBA.

Combination in *Leptocephalus (Macromischa)*: Baroni Urbani, 1978b: 434; combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Wheeler, W.M. 1937b: 464; Kempf, 1972a: 136; Alayo, 1974: 17 (in key); Baroni Urbani, 1978b: 434 (redescription); Brandão, 1991: 351; Fontenla Rizo, 1993: 5; Bolton, 1995b: 237; Fontenla Rizo, 2001: 17 (in key); Bolton, 2003: 271.

***creolus*.** *Leptocephalus (Macromischa) creolus* Baroni Urbani, 1978b: 437, figs. 44, 94 (w.) SANTO DOMINGO.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Brandão, 1991: 350; Bolton, 1995b: 237; Bolton, 2003: 271; Lubertazzi, 2019: 187.

***crepuscularis*.** *Leptocephalus crepuscularis* Tinaut, 1994: 90, figs. 1-4 (w.q.m.) SPAIN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271; Borowiec, L. 2014: 176; Lebas, *et al.* 2016: 370; Catarineu, *et al.* 2017: 143 (in key).

cressoni André, 1887 [*Macromischa*]; see under **PHEDOLE**.

***creticus*.** *Leptocephalus exilis* subsp. *creticus* Forel, 1910a: 23 (w.q.) GREECE (Crete).

Menozzi, 1936d: 289 (m.).

Subspecies of *exilis*: Emery, 1924d: 254; Menozzi, 1936d: 289.

Junior synonym of *exilis*: Baroni Urbani, 1971d: 1041; Bolton, 1995b: 237; Legakis, 2011: 17; Salata, Borowiec & Trichas, 2018: 778.

***cristinae*.** *Leptocephalus cristinae* Espadaler, 1997a: 153 (w.q.m.) SPAIN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271; Borowiec, L. 2014: 176.

csikii. *Leptothorax melleus* subsp. *csikii* Pisarski, 1969b: 298, figs. 1-4 (w.) MONGOLIA.

Subspecies of *melleus*: Bolton, 1995b: 237.

Junior synonym of *melleus*: Radchenko, 1995a: 26.

cuneinodis. *Temnothorax cuneinodis* Radchenko, 2004: 112, figs. 1-3 (w.) NORTH KOREA.

Status as species: Radchenko, 2005b: 149.

curtisetosus. *Temnothorax curtisetosus* Salata & Borowiec, 2015c: 140, figs. 9-11, 12, 14 (w.) TURKEY.

Status as species: Borowiec, L. & Salata, 2018: 8; Salata & Borowiec, 2018c: 44.

curtulus. *Leptothorax tebessae* st. *curtulus* Santschi, 1929e: 158, fig. 7 (w.) MOROCCO.

Cagniant, 1970a: 426 (q.m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of *tebessae*: Cagniant, 1968a: 144.

Status as species: Cagniant, 1970a: 425 (redescription); Cagniant, 1987c: 249; Bolton, 1995b: 237; Cagniant & Espadaler, 1997: 275 (redescription); Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 176.

Current subspecies: nominal plus *gentilis*.

curvispinosus. *Leptothorax curvispinosus* Mayr, 1866a: 508, pl., fig. 13 (w.) "North America" (no state data).

[Note: Wheeler, W.M. 1903c: 240, gives type-locality as, "?District of Columbia".]

Mayr, 1886d: 453 (q.); Mackay, 2000: 338 (m.).

Combination in *L. (Myrafant)*: Smith, M.R. 1950: 30;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Mayr, 1886d: 451 (in key); Cresson, 1887: 261; Dalla Torre, 1893: 124; Emery, 1895c: 320; Wheeler, W.M. 1903c: 239; Wheeler, W.M. 1905f: 385; Wheeler, W.M. 1906b: 9; Wheeler, W.M. 1908f: 621; Wheeler, W.M. 1910g: 567; Wheeler, W.M. 1913c: 114; Wheeler, W.M. 1916m: 588; Wheeler, W.M. 1917i: 461; Emery, 1924d: 258; Dennis, 1938: 289; Wing, 1939: 162; Wesson, L.G. & Wesson, R.G. 1940: 96; Buren, 1944a: 286; Creighton, 1950a: 263; Smith, M.R. 1951a: 817; Smith, M.R. 1958c: 131; Carter, 1962a: 6 (in list); Smith, M.R. 1967: 358; Hunt & Snelling, 1975: 22; Smith, D.R. 1979: 1392; DuBois & LaBerge, 1988: 138; Deyrup, et al. 1989: 97; Wheeler, G.C., et al. 1994: 302; Bolton, 1995b: 237; Mackay, 2000: 337 (redescription); Mackay & Mackay, 2002: 122; Bolton, 2003: 271; Deyrup, 2003: 45; Deyrup & Cover, 2004a: 58 (in key); Coovert, 2005: 72; MacGown & Forster, 2005: 72; Ellison, et al. 2012: 327; Deyrup, 2017: 144.

Senior synonym of *gallarum*: Mayr, 1886d: 453; Dalla Torre, 1893: 124; Wheeler, W.M. 1903c: 239; Emery, 1924d: 258; Creighton, 1950a: 264; Smith, M.R. 1951a: 817; Smith, D.R. 1979: 1392; Bolton, 1995b: 237; Mackay, 2000: 337.

curvispinosus. *Leptothorax nigrita* var. *curvispinosus* André, 1881b: 72 (in text) (w.) ISRAEL.

[Junior primary homonym of *Leptothorax curvispinosus* Mayr, 1866a: 508.]

Replacement name: *Leptothorax nigrita* var. *flavispinus* André, 1883a: 302.

curvithorax. *Leptothorax curvithorax* Bondroit, 1918: 130, fig. 63 (w.) FRANCE.

Status as species: Emery, 1924d: 254.

Junior synonym of *rabaudi*: Bernard, 1967: 210; Bolton, 1995b: 237.

Junior synonym of *tuberum*: Casevitz-Weulersse & Galkowski, 2009: 496.

cuyaguateje. *Leptothorax cuyaguateje* Fontenla Rizo, 1998: 65, fig. 3 (w.) CUBA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271.

cypridis. *Leptothorax bulgaricus* st. *cypridis* Santschi, 1930c: 266 (w.q.) CYPRUS.

Subspecies of bulgaricus: Bolton, 1995b: 237.

daidalosi. *Temnothorax daidalosi* Salata, Borowiec & Trichas, 2018: 775, figs. 11-15, 61 (w.) GREECE (Crete I.).

Status as species: Salata & Borowiec, 2018c: 49.

dakotensis. *Leptothorax rugatulus* subsp. *dakotensis* Wheeler, G.C. & Wheeler, E.W. 1944: 247 (w.) U.S.A. (North Dakota).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 819.

Subspecies of *rugatulus*: Smith, M.R. 1951a: 819.

Junior synonym of *brunnescens*: Creighton, 1950a: 269; Smith, M.R. 1958c: 132; Smith, D.R. 1979: 1394; Bolton, 1995b: 237.

Junior synonym of *rugatulus*: Mackay, 2000: 394.

darii. *Leptothorax exilis* var. *darii* Forel, 1911d: 334 (w.) TURKEY.

Menozzi, 1936d: 287 (q.l.).

As unavailable (infrasubspecific) name: Emery, 1915h: 2.

Subspecies of *exilis*: Emery, 1924d: 254; Finzi, 1930d: 314; Cori & Finzi, 1931: 238; Menozzi, 1936d: 287.

Junior synonym of *exilis*: Baroni Urbani, 1971d: 1041; Bolton, 1995b: 237; Legakis, 2011: 16; Kiran & Karaman, 2012: 25; Salata, Borowiec & Trichas, 2018: 778.

darlingtoni. *Macromischa darlingtoni* Wheeler, W.M. 1937b: 450 (w.) CUBA.

Combination in *Leptothorax (Macromischa)*: Baroni Urbani, 1978b: 438;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Brown, 1959e: 73; Kempf, 1972a: 136; Alayo, 1974: 17 (in key); Baroni Urbani, 1978b: 438 (redescription); Brandão, 1991: 351; Bolton, 1995b: 237; Fontenla Rizo, 1997a: 50; Fontenla Rizo, 2001: 17 (in key); Bolton, 2003: 271.

Senior synonym of opalina: Brown, 1959e: 73; Kempf, 1972a: 136; Fontenla Rizo, 1997a: 50.

davisi. *Leptothorax texanus* subsp. *davisi* Wheeler, W.M. 1905f: 385 (w.q.) U.S.A. (New Jersey).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 819;

combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of *texanus*: Wheeler, W.M. 1910g: 567; Emery, 1924d: 258; Creighton, 1950a: 272; Smith, M.R. 1951a: 819; Smith, M.R. 1952b: 104; Smith, M.R. 1958c: 133; Smith, D.R. 1979: 1395; Deyrup, et al. 1989: 97; Bolton, 1995b: 237.

Status as species: Mackay, 2000: 340 (redescription); Bolton, 2003: 271; Coovert, 2005: 73 (error).

Junior synonym of *texanus*: Deyrup & Cover, 2004a: 56.

delaparti. *Leptothorax delaparti* Forel, 1890a: lxxii (w.q.) ALGERIA.

Cagniant & Espadaler, 1997: 269 (m.).

Combination in *L. (Temnothorax)*: Emery, 1891b: 5;

combination in *Temnothorax*: Cagniant, 1970a: 418; Bolton, 2003: 271.

Status as species: Emery, 1891b: 5 (in key); Dalla Torre, 1893: 124; Emery, 1924d: 259; Cagniant, 1970a: 418; Bolton, 1995b: 237; Cagniant & Espadaler, 1997: 269; Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 176.

Senior synonym of emeryi: Cagniant & Espadaler, 1997: 269.

denticulatus. *Leptothorax denticulatus* Stitz, 1917: 336, fig. 4 (w.) SPAIN (Canary Is.).

[Junior primary homonym of *Leptothorax denticulatus* Mayr, 1901b: 5.]

Replacement name: *Leptothorax cabrerae* var. *stitzii* Santschi, 1918a: 34.

desertorum. *Temnothorax desertorum* Dlussky & Soyunov, 1988: 35, figs. 1, 2 (w.q.)
TURKMENISTAN, UZBEKISTAN.

[*Leptothorax desertorum* Dlussky, 1981a: 17. *Nomen nudum.*]

Combination in *Leptothorax*: Bolton, 1995b: 238;
combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Dlussky, Soyunov & Zabelin, 1990: 186; Bolton, 1995b: 238; Bolton, 2003: 271.

desioi. *Leptothorax (Leptothorax) desioi* Menozzi, 1939a: 303, figs. 7, 8 (w.q.m.) PAKISTAN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 1995b: 238; Bolton, 2003: 271; Bharti, Gul & Schulz, 2012: 334 (in key); Bharti, Guénard, *et al.* 2016: 45; Bharti, Gul & Sasi, 2016: 752 (in key).
Current subspecies: nominal plus *melanicus*.

dessyi. *Leptothorax (Leptothorax) dessyi* Menozzi, 1936d: 289, fig. XIII, 1 (w.) GREECE
(Scarpanto I.).

Salata & Borowiec, 2018c: 27 (q.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Agosti & Collingwood, 1987a: 55; Bolton, 1995b: 238; Bolton, 2003: 271; Legakis, 2011: 18; Borowiec, L. & Salata, 2012: 541; Kiran & Karaman, 2012: 25; Borowiec, L. 2014: 176; Lebas, *et al.* 2016: 344; Galkowski & Cagniant, 2017: 186; Salata & Borowiec, 2018c: 26.

dichroa. *Leptothorax exilis* var. *dichroa* Emery, 1916b: 174.

[First available use of *Leptothorax tuberum* subsp. *exilis* var. *dichroa* Emery, 1905a: 452 (w.) ITALY; unavailable (infrasubspecific) name.]

As unavailable (infrasubspecific) name: Emery, 1914d: 157 (footnote); Emery, 1915a: 246.

Junior synonym of *leviceps*: Emery, 1916b: 174; Baroni Urbani, 1971c: 107; Bolton, 1995b: 240 (error).

Junior synonym of *exilis*: Baroni Urbani, 1971d: 1041.

discoloratus. *Leptothorax discoloratus* Arnol'di, 1977a: 200 (w.) RUSSIA (Caucasus).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Arnol'di & Dlussky, 1978: 543 (in key); Radchenko, 1994d: 156 (in key); Bolton, 1995b: 238; Radchenko, 1996c: 19; Bolton, 2003: 271; Borowiec, L. 2014: 176.

dissimilis. *Macromischa dissimilis* Aguayo, 1932: 220 (w.) CUBA.

Combination in *Leptothorax (Macromischa)*: Baroni Urbani, 1978b: 439;
combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Wheeler, W.M. 1937b: 464; Brown, 1959e: 74; Kempf, 1972a: 136; Alayo, 1974: 16 (in key); Baroni Urbani, 1978b: 439 (redescription); Brandão, 1991: 351; Bolton, 1995b: 238; Fontenla Rizo, 2001: 17 (in key); Bolton, 2003: 271.

Senior synonym of chloana: Brown, 1959e: 74; Kempf, 1972a: 136; Baroni Urbani, 1978b: 439; Brandão, 1991: 351; Bolton, 1995b: 238.

ditifet. *Leptothorax ditifet* Espadaler, in Cagniant & Espadaler, 1997: 279, figs. 29, 64 (w.q.m.) MOROCCO.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 177.

***dlusskyi*.** *Temnothorax dlusskyi* Radchenko, Yusupov & Fedoseeva, 2015: 164, figs. 1-3 (w.) RUSSIA (Kabardino-Balkarian Republic).

***duloticus*.** *Leptocephalus (Mycothorax) duloticus* Wesson, L.G. 1937: 125, fig. 1 (w.q.) U.S.A. (Ohio).

Wesson, L.G. 1940: 81 (m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Wesson, L.G. 1940: 73; Wesson, L.G. & Wesson, R.G. 1940: 94; Creighton, 1950a: 278; Smith, M.R. 1951a: 821; Smith, M.R. 1958c: 134; Smith, M.R. 1967: 359; Kutter, 1968b: 204; Wilson, 1975: 108; Smith, D.R. 1979: 1397; Buschinger, 1981: 213; Wheeler, G.C., et al. 1994: 303; Bolton, 1995b: 238; Bolton, 2003: 271; Covert, 2005: 78; Seifert, Kleeberg, et al. 2014: 73.

***eburneipes*.** *Leptocephalus congruus* var. *eburneipes* Wheeler, W.M. 1927e: 1 (w.) CHINA (Beijing).

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of *congruus*: Wheeler, W.M. 1930h: 70; Chapman & Capco, 1951: 110.

Status as species: Wheeler, W.M. 1929f: 8; Bolton, 1995b: 238; Radchenko, 1996c: 17; Bolton, 2003: 271; Radchenko, 2004: 123; Radchenko, 2005b: 149; Zhou, et al. 2010: 12 (in key); Guénard & Dunn, 2012: 54.

***elderensis*.** *Leptocephalus elderensis* Dlussky & Zabelin, 1985: 225, fig. 3 (w.) TURKMENIA.

Status as species: Dlussky, Soyunov & Zabelin, 1990: 190.

Junior synonym of *tesquorum*: Radchenko, 1994d: 150 (in key); Bolton, 1995b: 238; Radchenko, 1996c: 18.

***eldoradensis*.** *Leptocephalus eldoradensis* Wheeler, W.M. 1915b: 414 (w.) U.S.A. (California).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 817.

Status as species: Wheeler, W.M. 1917a: 507; Emery, 1924d: 258; Cole, 1936a: 36; Smith, M.R. 1951a: 817.

Subspecies of *nevadensis*: Creighton, 1950a: 266; Smith, M.R. 1958c: 131; Yensen, et al. 1977: 183; Smith, D.R. 1979: 1393; Bolton, 1995b: 238.

Junior synonym of *nevadensis*: Mackay, 2000: 376; Ward, 2005: 16; Snelling, R.R. et al. 2014: 56.

***elmenshawyi*.** *Temnothorax elmenshawyi* Sharaf, Wachkoo & Hita Garcia, in Sharaf, Aldawood, Economo, et al. 2019: 2, figs. 1A-C, 2A-H (w.) SAUDI ARABIA.

***elongatus*.** *Leptocephalus elongatus* Santschi, 1919e: 247 (w.) SPAIN (Canary Is.).

Status as species: Wheeler, W.M. 1927g: 110; Wellenius, 1955: 10; Báez & Ortega, 1978: 189.

Subspecies of *risii*: Barquin Diez, 1981: 269.

Junior synonym of *risii*: Hohmann, et al. 1993: 151; Bolton, 1995b: 238.

***emeryi*.** *Leptocephalus (Temnothorax) emeryi* Santschi, 1923f: 333, fig. 4 (w.) ALGERIA.

Combination in *Temnothorax*: Cagniant, 1970a: 419.

Status as species: Cagniant, 1970a: 419; Bolton, 1995b: 238.

Junior synonym of *delaparti*: Cagniant & Espadaler, 1997: 269.

***emmae*.** *Leptocephalus (Myrafant) emmae* Mackay, 2000: 342, figs. 67, 107, 108 (w.q.) U.S.A. (New Mexico).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Mackay & Mackay, 2002: 123; Bolton, 2003: 271.

ergatogyna. *Leptothorax (Temnothorax) ergatogyna* Bernard, 1950a: 17, fig. 3 (w.q.) FRANCE.
Combination in *Temnothorax*: Bernard, 1967: 186.
Status as species: Bernard, 1967: 186; Kutter, 1968b: 204.
Junior synonym of *recedens*: Dlussky & Soyunov, 1988: 31; Bolton, 1995b: 238;
Casevitz-Weulersse & Galkowski, 2009: 496; Radchenko, 2016: 226; Salata, Borowiec
& Trichas, 2018: 793.

ernesti. *Leptothorax rottenbergi* st. *ernesti* Santschi, 1909b: 478 (w.) ALGERIA.
Subspecies of *rottenbergi*: Emery, 1924d: 252; Bolton, 1995b: 238.

esmirensis. *Leptothorax exilis* subsp. *obscurior* var. *esmirensis* Santschi, 1936c: 204 (w.)
MOROCCO; unavailable (infrasubspecific) name.
Declared as unavailable (infrasubspecific) name: Bolton, 1995b: 238.
Material referred to *exilis* by Baroni Urbani, 1971d: 1041.

euxanthus Plateaux, 1981 (unavailable name); see under **LEPTOTHORAX**.

exilis. *Leptothorax exilis* Emery, 1869b: 15, pl. 1, fig. 9 (w.) ITALY.
Emery, 1916b: 183, 186 (q.m., respectively).
Combination in *Temnothorax*: Bolton, 2003: 271.
Subspecies of *tuberum*: Emery & Forel, 1879: 459; André, 1883a: 299; Emery, 1884a:
379; Forel, 1889: 257; Emery, 1891b: 6; Emery, in Dalla Torre, 1893: 127 (footnote);
Emery, 1898c: 134; Ruzsky, 1902d: 21; Ruzsky, 1905b: 589; Emery, 1914d: 157
(footnote); Emery, 1915h: 2.
Status as species: Emery, 1880: 392; Emery, 1881b: 529; Dalla Torre, 1893: 124; Forel,
1913d: 433; Emery, 1916b: 174; Bondroit, 1918: 137; Menozzi, 1921: 27; Santschi,
1923f: 331; Müller, 1923b: 89; Finzi, 1924a: 13; Emery, 1924d: 254; Santschi, 1929e:
153; Grandi, 1935: 101; Zimmermann, 1935: 30; Bernard, 1956a: 162; Ceballos, 1956:
306; Bernard, 1967: 208 (redescription); Baroni Urbani, 1969a: 332; Collingwood &
Yarrow, 1969: 70; Baroni Urbani, 1971c: 106; Baroni Urbani, 1971d: 1041; Baroni
Urbani, 1974: 234; Baroni Urbani, 1976: 213; Agosti & Collingwood, 1987a: 55; Agosti
& Collingwood, 1987b: 275 (in key); Casevitz-Weulersse, 1990c: 418 (in key);
Collingwood, 1993b: 194; Bolton, 1995b: 238; Poldi, *et al.* 1995: 4; Bolton, 2003: 271;
Bračko, 2006: 141; Petrov, 2006: 98 (in key); Bračko, 2007: 18; Gratiashvili & Barjadze,
2008: 142; Casevitz-Weulersse & Galkowski, 2009: 494; Legakis, 2011: 18; Karaman,
M.G. 2011b: 30; Borowiec, L. & Salata, 2012: 541; Kiran & Karaman, 2012: 25;
Borowiec, L. 2014: 177; Bračko, *et al.* 2014: 15; Lebas, *et al.* 2016: 350; Salata,
Borowiec & Trichas, 2018: 778 (redescription); Salata & Borowiec, 2018c: 49.
Senior synonym of *boccaris*: Baroni Urbani, 1971d: 1041; Bolton, 1995b: 238; Salata,
Borowiec & Trichas, 2018: 778.
Senior synonym of *creticus*: Baroni Urbani, 1971d: 1041; Bolton, 1995b: 238; Legakis,
2011: 17; Salata, Borowiec & Trichas, 2018: 778.
Senior synonym of *darii*: Baroni Urbani, 1971d: 1041; Bolton, 1995b: 238; Legakis,
2011: 17; Kiran & Karaman, 2012: 25; Salata, Borowiec & Trichas, 2018: 778.
Senior synonym of *dichroa*: Baroni Urbani, 1971d: 1041.
Senior synonym of *nitidulus*: Emery, 1914d: 157 (footnote); Baroni Urbani, 1971d:
1041; Bolton, 1995b: 238; Salata, Borowiec & Trichas, 2018: 778.
Senior synonym of *ruficornis*: Emery, 1914d: 157 (footnote); Emery, 1916b: 174;
Emery, 1924d: 254; Baroni Urbani, 1971d: 1041; Bolton, 1995b: 238; Salata, Borowiec
& Trichas, 2018: 778.

Senior synonym of *specularis*: Baroni Urbani, 1971d: 1041; Salata, Borowiec & Trichas, 2018: 778.

Material of the unavailable name *esmirensis* referred here by Baroni Urbani, 1971d: 1041; Bolton, 1995b: 238.

facetus. *Leptothorax flavigaster* var. *facetus* Santschi, 1939c: 2 (w.) MOROCCO.

Subspecies of *flavigaster*: Santschi, 1939d: 75; Bolton, 1995b: 238.

Junior synonym of *santschii*: Cagniant & Espadaler, 1997: 276.

festai. *Leptothorax bucheti* var. *festai* Emery, 1924a: 9 (w.) LIBYA.

Subspecies of *bucheti*: Menozzi, 1934: 162; Bolton, 1995b: 238.

finzii. *Leptothorax (Myrmamophilus) finzii* Menozzi, 1925d: 29, fig. 2 (w.q.m.) ITALY.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Baroni Urbani, 1971c: 100; Bolton, 1995b: 238; Poldi, *et al.* 1995: 5; Bolton, 2003: 271; Borowiec, L. 2014: 177; Bračko, *et al.* 2014: 15; Salata & Borowiec, 2015c: 139 (in key); Lebas, *et al.* 2016: 370.

firsovi. *Leptothorax nassonovi* subsp. *firsovi* Kuznetsov-Ugamsky, 1928b: 28, fig. 5 (w.) RUSSIA (Primorsky Region).

[Misspelled as *frissovi* by Pisarski, 1969a: 229, Pisarski, 1969b: 302.]

Subspecies of *nassonovi*: Kuznetsov-Ugamsky, 1929a: 30; Pisarski, 1969a: 229; Pisarski, 1969b: 302; Pisarski & Krzysztofiak, 1981: 158.

Junior synonym of *nassonovi*: Kupyanskaya, 1990: 143; Bolton, 1995b: 238; Radchenko, 1995d: 9; Radchenko, 2004: 126; Radchenko, 2005b: 151; Radchenko, 2016: 224.

flavicornis. *Leptothorax flavicornis* Emery, 1870: 197 (w.q.) ITALY.

Emery, 1895b: 69 (m.).

Combination in *L. (Myrmothorax)*: Ruzsky, 1904a: 288; Forel, 1915d: 26; combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of *Leptothorax acervorum*: Forel, 1874: 84 (in key).

Status as species: Emery & Forel, 1879: 458; André, 1883a: 294 (in key); Dalla Torre, 1893: 124; Emery, 1895b: 69; Forel, 1915d: 26 (in key); Emery, 1916b: 176; Bondroit, 1918: 122; Menozzi, 1921: 28; Müller, 1921: 48; Müller, 1923b: 97; Emery, 1924d: 258; Menozzi, 1925d: 29; Zimmermann, 1935: 34; Bernard, 1956a: 161; Bernard, 1967: 201 (redescription); Kutter, 1968a: 60; Baroni Urbani, 1971c: 108; Kutter, 1977c: 131; Agosti & Collingwood, 1987a: 55; Agosti & Collingwood, 1987b: 273 (in key); Bolton, 1995b: 238; Poldi, *et al.* 1995: 5; Bolton, 2003: 271; Bračko, 2006: 141; Petrov, 2006: 95 (in key); Bračko, 2007: 18; Karaman, M.G. 2011b: 30; Borowiec, L. & Salata, 2012: 541; Borowiec, L. 2014: 177; Bračko, *et al.* 2014: 16; Csösz, Heinze & Mikó, 2015: 28 (redescription); Lebas, *et al.* 2016: 352; Borowiec, L. & Salata, 2018: 8; Salata & Borowiec, 2018c: 49; Seifert, 2018: 201.

flavidulus. *Macromischa flavidula* Wheeler, W.M. & Mann, 1914: 37, fig. 15 (w.q.) HAITI.

Combination in *M. (Antillaemyrmex)*: Mann, 1920: 408;

combination in *Antillaemyrmex*: Wheeler, W.M. 1931b: 32;

combination in *Leptothorax (Macromischa)*: Baroni Urbani, 1978b: 441;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Mann, 1920: 408 (in key); Emery, 1924d: 246; Wheeler, W.M. 1937b: 465; Kempf, 1972a: 136; Baroni Urbani, 1978b: 441 (redescription); Brandão, 1991: 351; Bolton, 1995b: 238; Bolton, 2003: 271; Lubertazzi, 2019: 187.

flavispinus. *Leptothorax nigrita* var. *flavispinus* André, 1883a: 302.

Replacement name for *Leptothorax nigrita* var. *curvispinosus* André, 1881b: 72. [Junior primary homonym of *Leptothorax curvispinosus* Mayr, 1866a: 508.]

Menozzi, 1933b: 67 (m.); Kugler, J. & Soussan, 1992: 210 (q.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of *nigrita*: Emery, 1884a: 379; Saunders, E. 1890: 204.

Status as species: Emery, 1891b: 5 (and in key); Dalla Torre, 1893: 124; Forel, 1905b: 172; Karavaiev, 1912a: 3; Emery, 1924d: 254; Menozzi, 1933b: 67; Santschi, 1939c: 2; Santschi, 1939d: 75; Ceballos, 1956: 306; Cagniant, 1970a: 421; Collingwood, 1978: 84 (in key); Kugler, J. 1988: 257; Kugler, J. & Soussan, 1992: 209 (redescription); Bolton, 1995b: 238; Bolton, 2003: 271; Vonshak, *et al.* 2009: 44; Borowiec, L. 2014: 177 (see note in bibliography).

Current subspecies: nominal plus *amilcaris*, *clivulus*, *crassispinus* (junior homonym), *impurus*, *rufescens*.

flavitarsis. *Macromischa* (*Macromischa*) *flavitarsis* Mann, 1920: 420 (w.q.) GUATEMALA.

Wheeler, W.M. 1931b: 14 (m.).

Status as species: Wheeler, W.M. 1931b: 13; Wheeler, W.M. 1937b: 464; Kempf, 1972a: 137.

Junior synonym of *subditivus*: Baroni Urbani, 1978b: 512; Brandão, 1991: 353; Bolton, 1995b: 238.

flavus. *Leptothorax* (*Dichothonax*) *pergandei* subsp. *flavus* Smith, M.R. 1929: 549 (w.q.) U.S.A. (Mississippi).

Subspecies of *pergandei*: Smith, M.R. 1931a: 18; Smith, M.R. 1951a: 820.

Junior synonym of *floridanus*: Creighton, 1950a: 260; Smith, M.R. 1958c: 133; Smith, M.R. 1979: 1396.

Junior synonym of *pergandei*: Mackay, 1993a: 289; Bolton, 1995b: 243.

floridanus. *Leptothorax* (*Dichothonax*) *floridanus* Emery, 1895c: 324 (w.) U.S.A. (Florida).

Status as species: Wheeler, W.M. 1903c: 259; Wheeler, W.M. 1910g: 567; Emery, 1924d: 260; Wheeler, W.M. 1932a: 11.

Subspecies of *pergandei*: Smith, M.R. 1929: 551; Smith, M.R. 1930a: 4; Smith, M.R. 1931a: 18; Dennis, 1938: 290; Creighton, 1950a: 260; Smith, M.R. 1951a: 820; Smith, M.R. 1958c: 133; Smith, M.R. 1979: 1396.

Junior synonym of *pergandei*: Mackay, 1993a: 289; Bolton, 1995b: 243.

Material of the unavailable name *spinosis* referred here by Creighton, 1950a: 260; Smith, M.R. 1958c: 133; Smith, M.R. 1979: 1396.

floridanus. *Antillaemyrmex floridanus* Wheeler, W.M. 1931b: 27 (w.) U.S.A. (Florida).

[Unresolved junior secondary homonym of *Leptothorax floridanus* Emery, 1895c: 324 (Bolton, 1995b: 238).]

Combination in *Macromischa* (*Antillaemyrmex*): Wheeler, W.M. 1937b: 465.

Status as species: Wheeler, W.M. 1932a: 11; Wheeler, W.M. 1937b: 465; Smith, M.R. 1939e: 507 (redescription); Creighton, 1950a: 251; Smith, M.R. 1951a: 816; Smith, M.R. 1979: 1390.

Junior synonym of *allardycei*: Baroni Urbani, 1978b: 415; Brandão, 1991: 351; Bolton, 1995b: 238.

foreli. *Leptothorax foreli* Santschi, 1907: 330 (w.) TUNISIA.

Combination in *L.* (*Temnothorax*): Santschi, 1918a: 32;
combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Emery, 1924d: 259; Bolton, 1995b: 238; Bolton, 2003: 271; Borowiec, L. 2014: 177.

foreli. *Epimyrma foreli* Menozzi, 1921: 29, fig. 2 (w.q.) ITALY.

[Unresolved junior secondary homonym of *Leptothorax foreli* Santschi, 1907: 330.]

Status as species: Menozzi, 1931c: 45 (redescription); Bernard, 1967: 220 (redescription); Kutter, 1968b: 204; Baroni Urbani, 1971c: 130; Kutter, 1973e: 285.

Junior synonym of *kraussei*: Buschinger, Fischer, *et al.* 1987: 274; Buschinger, 1989: 267; Mei, 1992b: 148; Schulz, A. 1994b: 432; Bolton, 1995b: 188; Poldi, *et al.* 1995: 5; Buschinger, 1997: 8; Salata, Borowiec & Trichas, 2018: 784.

foreli. *Macromischa foreli* Aguayo, 1931: 182.

Replacement name for *Leptothorax petiolatus* Forel, 1901c: 129. [Junior secondary homonym of **Macromischa petiolata* Mayr, 1868b: 85.]

[**Junior secondary homonym** of *Leptothorax foreli* Santschi, 1907: 330.]

Status as species: Wheeler, W.M. 1937b: 464; Kempf, 1972a: 137.

Replacement name: *Leptothorax augusti* Baroni Urbani, 1978b: 423.

formosus. *Leptothorax formosus* Santschi, 1909b: 469 (w.) MOROCCO.

Cagniant & Espadaler, 1997: 280 (q.m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Emery, 1924d: 252; Bolton, 1995b: 238; Cagniant & Espadaler, 1997: 280; Bolton, 2003: 271; Cagniant, 2006a: 198; Casevitz-Weulersse & Galkowski, 2009: 495; Borowiec, L. 2014: 177; Galkowski & Lebas, 2016: 83 (in key); Lebas, *et al.* 2016: 372.

Senior synonym of *fuentei*: Cagniant & Espadaler, 1997: 280; Casevitz-Weulersse & Galkowski, 2009: 495.

fortinodis. *Leptothorax fortinodis* Mayr, 1886d: 452 (w.q.) U.S.A. (Maryland).

[Misspelled as *fortinodus* by Cresson, 1887: 261.]

Combination in *L. (Myrafant)*: Smith, M.R. 1950: 30.

Status as species: Cresson, 1887: 261; Dalla Torre, 1893: 124; Emery, 1895c: 321; Wheeler, W.M. 1903c: 233; Wheeler, W.M. 1905f: 385; Wheeler, W.M. 1910g: 566; Wheeler, W.M. 1917i: 461; Emery, 1924d: 258; Smith, M.R. 1951a: 817.

Subspecies of *schaumii*: Wesson L.G. & Wesson, R.G. 1940: 96.

Junior synonym of *schaumii*: Creighton, 1950a: 271; Smith, M.R. 1958c: 132; Smith, D.R. 1979: 1394; Bolton, 1995b: 238; Mackay, 2000: 403; Coovert, 2005: 74.

foveata. *Leptothorax foveata* Smith, M.R. 1934b: 211 (w.) U.S.A. (Illinois).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 818.

Status as species: Smith, M.R. 1951a: 818.

Subspecies of *ambiguus*: Creighton, 1950a: 263; Smith, M.R. 1958c: 131; Smith, M.R. 1967: 359; Smith, D.R. 1979: 1392; Bolton, 1995b: 238.

Junior synonym of *ambiguus*: Coovert, 2005: 71; Shattuck & Cover, 2016: 20.

fragosus. *Leptothorax (Myrafant) fragosus* Mackay & Buschinger, 2002: 540, figs. 1-8 (w.q.m.) CANADA (Alberta).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271.

frissovi, misspelling, see under *firssovi*.

fuentei. *Leptothorax fuentei* Santschi, 1919e: 243, fig. 2 (w.) SPAIN.

Menozzi, 1922b: 328 (m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Menozzi, 1922b: 328; Santschi, 1931a: 5; Santschi, 1932c: 70; Ceballos, 1956: 306; Collingwood, 1978: 83 (in key); Espadaler & Collingwood, 1982: 42; Espadaler & Du Merle, 1989: 121; Bolton, 1995b: 238; Espadaler, 1997b: 30; Bolton, 2003: 271 (error); Borowiec, L. 2014: 178 (error).

Junior synonym of *formosus*: Cagniant & Espadaler, 1997: 280; Casevitz-Weulersse & Galkowski, 2009: 495.

fultonii. *Leptocephalus fultonii* Forel, 1902c: 229 (w.) INDIA (Himachal Pradesh).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Forel, 1903a: 698; Bingham, 1903: 216; Forel, 1906b: 88; Emery, 1924d: 257; Menozzi, 1939a: 308 (in key); Chapman & Capco, 1951: 110; Bolton, 1995b: 238; Bolton, 2003: 271; Bharti, Gul & Schulz, 2012: 335 (in key); Guénard & Dunn, 2012: 54; Bharti, Guénard, et al. 2016: 45; Bharti, Gul & Sasi, 2016: 752 (in key).

fumosus. *Leptocephalus satunini* subsp. *fumosus* Ruzsky, 1923: 4 (w.) TURKMENISTAN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of bulgaricus: Kuznetsov-Ugamsky, 1927d: 40.

Status as species: Dlussky, Soyunov & Zabelin, 1990: 190; Radchenko, 1994d: 151 (in key); Bolton, 1995b: 238; Radchenko, 1995a: 27; Bolton, 2003: 271.

furunculus. *Leptocephalus furunculus* Wheeler, W.M. 1909e: 82 (w.) U.S.A. (Colorado).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 818;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Wheeler, W.M. 1910g: 567; Wheeler, W.M. 1917a: 508; Emery, 1924d: 258; Creighton, 1950a: 264; Smith, M.R. 1951a: 818; Smith, M.R. 1967: 359; Smith, D.R. 1979: 1393; Allred, 1982: 484; Wheeler, G.C. & Wheeler, J. 1986g: 52 (in key); Bolton, 1995b: 238; Mackay, 2000: 344 (redescription); Mackay & Mackay, 2002: 124; Bolton, 2003: 271.

fuscatus. *Macromischa (Macromischa) fuscata* Mann, 1920: 420 (w.) GUATEMALA.

Combination in *Leptocephalus (Macromischa)*: Baroni Urbani, 1978b: 442;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Wheeler, W.M. 1937b: 464; Kempf, 1972a: 137; Baroni Urbani, 1978b: 442 (redescription); Brandão, 1991: 351; Bolton, 1995b: 238; Bolton, 2003: 271; Branstetter & Sáenz, 2012: 261.

fusciventris. *Leptocephalus arenarius* var. *fusciventris* Santschi, 1911f: 85 (w.) TUNISIA.

Combination in *L. (Temnothorax)*: Emery, 1924d: 259.

Subspecies of arenarius: Emery, 1924d: 259; Bolton, 1995b: 239.

gaetulus. *Leptocephalus gaetulus* Santschi, 1923f: 332, fig. 3 (w.) MOROCCO.

Cagniant & Espadaler, 1997: 272 (q.m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 1995b: 239; Cagniant & Espadaler, 1997: 271; Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 178.

galatica. *Leptocephalus rottenbergi* st. *semiruber* var. *galatica* Santschi, 1921a: 111 (w.) TURKEY; unavailable (infrasubspecific) name.

Menozzi, 1936d: 286 (q.l.).

As unavailable (infrasubspecific) name: Menozzi, 1936d: 285.

Declared as unavailable (infrasubspecific) name: Agosti & Collingwood, 1987a: 61; Legakis, 2011: 18.

Material referred to *semiruber* by Salata, Borowiec & Trichas, 2018: 796.
galeatus. *Leptocephalus galeatus* Wheeler, W.M. 1927e: 1 (w.) CHINA (Beijing).
Combination in *Temnothorax*: Bolton, 2003: 271.
Status as species: Wheeler, W.M. 1929f: 8; Wheeler, W.M. 1930h: 70; Chapman & Capco, 1951: 111; Radchenko, 1994d: 156 (in key); Bolton, 1995b: 239; Wu, J. & Wang, 1995: 108; Radchenko, 1996c: 18; Chang & He, 2001b: 3; Bolton, 2003: 271.
Junior synonym of *nassonovi*: Radchenko, 2004: 126; Radchenko, 2005b: 151; Radchenko, 2016: 224.

gallae. *Leptocephalus (Leptocephalus) gallae* Smith, M.R. 1949e: 112 (w.) U.S.A. (California).
Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 818;
combination in *Temnothorax*: Bolton, 2003: 271.
Status as species: Smith, M.R. 1951a: 818; Smith, D.R. 1979: 1393; Bolton, 1995b: 239; Mackay, 2000: 346 (redescription); Bolton, 2003: 271; Ward, 2005: 68; Snelling, R.R. et al. 2014: 49.

gallarum. *Stenamma gallarum* Patton, 1879: 126 (footnote) (w.q.) U.S.A. (Connecticut).
Junior synonym of *curvispinosus*: Mayr, 1886d: 453; Dalla Torre, 1893: 124; Wheeler, W.M. 1903c: 239; Emery, 1924d: 258; Creighton, 1950a: 264; Smith, M.R. 1951a: 817; Smith, D.R. 1979: 1392; Bolton, 1995b: 239; Mackay, 2000: 337.

gapsensis. *Leptocephalus tebessae* var. *gapsensis* Santschi, 1929e: 156, fig. 9 (w.) TUNISIA.
Subspecies of tebessae: Bolton, 1995b: 239.

gazella. *Leptocephalus gazella* Santschi, 1923f: 329 (w.) TUNISIA.
Status as species: Bolton, 1995b: 239.
Junior synonym of *algiricus*: Cagniant & Espadaler, 1997: 278; Galkowski & Cagniant, 2017: 189.

gentilis. *Leptocephalus tebessae* var. *gentilis* Santschi, 1923f: 330.
[First available use of *Leptocephalus tuberum* st. *tebessae* var. *gentilis* Santschi, 1918a: 36 (w.) TUNISIA; unavailable (infrasubspecific) name.]
Santschi, 1923f: 330 (q.); Cagniant, 1970a: 426 (m.).
As unavailable (infrasubspecific) name: Emery, 1924d: 255.
Subspecies of curtulus: Cagniant, 1970a: 426 (redescription); Bolton, 1995b: 239.
Status as species: Borowiec, L. 2014: 178 (error).

georgicus. *Temnothorax georgicus* Ward, et al. 2015: 75.
Replacement name for *Leptocephalus tamarae* Radchenko, 1994i: 23. [Junior secondary homonym of *Epimyrma tamarae* Arnol'di, 1968: 1811.]

gibbifer. *Leptocephalus (Macromischa) gibbifer* Baroni Urbani, 1978b: 444, figs. 56, 132 (w.) CUBA.
Combination in *Temnothorax*: Bolton, 2003: 271.
Status as species: Brandão, 1991: 350; Bolton, 1995b: 239; Fontenla Rizo, 2001: 16 (in key); Bolton, 2003: 271.

gilvus. *Leptocephalus fortinodis* var. *gilvus* Wheeler, W.M. 1903c: 235 (w.q.) U.S.A. (Texas).
Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 817.
Subspecies of *fortinodis*: Wheeler, W.M. 1910g: 566; Emery, 1924d: 259; Smith, M.R. 1951a: 817.
Junior synonym of *schaumii*: Creighton, 1950a: 271; Smith, M.R. 1958c: 132; Smith, D.R. 1979: 1394; Bolton, 1995b: 239; Mackay, 2000: 403; Coovett, 2005: 74.

glaber. *Leptocephalus glaber* Santschi, 1925g: 345 (w.) SPAIN.

Status as species: Ceballos, 1956: 306; Collingwood, 1978: 85 (in key).

Junior synonym of *niger*: Espadaler, 1981: 80; Bolton, 1995b: 239.

****glaesarius***. **Leptothorax glaesarius* Wheeler, W.M. 1915h: 64 (w.) BALTIC AMBER (Eocene).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Burnham, 1979: 111; Keilbach, 1982: 276; Bolton, 1995b: 239; Bolton, 2003: 271; Dlussky & Rasnitsyn, 2009: 1032; Perkovsky, 2016: 116.

globulinodis. *Leptothorax risii* st. *globulinodis* Santschi, 1909b: 471, fig. 4 (w.) SPAIN (Canary Is.).

Subspecies of *risii*: Emery, 1924d: 252; Wheeler, W.M. 1927g: 110; Wellenius, 1955: 10; Báez & Ortega, 1978: 190.

Junior synonym of *risii*: Barquin Diez, 1981: 256; Hohmann, *et al.* 1993: 151; Bolton, 1995b: 239.

goesswaldi. *Epimyrma goesswaldi* Menozzi, in Gösswald, 1930: 464, figs. 1-3 (w.q.m.) GERMANY.

[Also described as new by Menozzi, 1931c: 41.]

Status as species: Gösswald, 1932: 94; Grandi, 1935: 101; Stitz, 1939: 186; Novák & Sadil, 1941: 83 (in key); Bernard, 1967: 221 (redescription); Kutter, 1968b: 204; Collingwood, 1971: 160; Kutter, 1973e: 285; Buschinger, 1981: 213.

Junior synonym of *ravouxi*: Buschinger, 1982: 352; Buschinger, 1989: 266; Mei, 1992b: 149; Schulz, A. 1994b: 432; Bolton, 1995b: 188; Buschinger, 1997: 8; Gallé, *et al.* 1998: 215; Czechowski, *et al.* 2002: 59; Casevitz-Weulersse & Galkowski, 2009: 492; Csösz, *et al.* 2011: 57; Czechowski, *et al.* 2012: 164; Radchenko, 2016: 205.

goniops. *Leptothorax (Macromischa) goniops* Baroni Urbani, 1978b: 445, figs. 65, 110 (w.) MEXICO (Campeche, Chiapas).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Brandão, 1991: 350; Bolton, 1995b: 239; Bolton, 2003: 271.

gordiagini. *Myrmoxenus gordiagini* Ruzsky, 1902b: 475, figs. A-H (1-8) (w.q.m.) RUSSIA, KAZAKHSTAN.

[Misspelled as *gordjagini* by Ruzsky, 1925b: 45.]

Combination in *Epimyrma*: Bolton, 1995b: 188;

combination in *Myrmoxenus*: Schulz, A. & Sanetra, 2002: 159;

combination in *Temnothorax*: Ward, *et al.* 2015: 75.

Status as species: Ruzsky, 1905b: 568; Emery, 1908f: 553; Emery, 1924d: 262; Finzi, 1924b: 120; Ruzsky, 1925b: 45; Ruzsky, 1936: 96; Kutter, 1968b: 205; Baroni Urbani, 1971c: 127; Arnol'di & Dlussky, 1978: 544 (in key); Buschinger, Winter & Faber, 1984: 336; Agosti & Collingwood, 1987b: 266 (in key); Buschinger, 1989: 266; Kupyanskaya, 1990: 145; Schulz, A. 1994b: 432; Bolton, 1995b: 188; Buschinger, 1997: 4; Schulz, A. & Sanetra, 2002: 159; Bračko, 2006: 139; Petrov, 2006: 85 (in key); Lapeva-Gjonova, *et al.* 2010: 26; Karaman, M.G. 2011b: 48; Legakis, 2011: 17; Borowiec, L. & Salata, 2012: 525; Kiran & Karaman, 2012: 23; Borowiec, L. 2014: 137; Lebas, *et al.* 2016: 328; Salata & Borowiec, 2018c: 47.

Senior synonym of *menozzii*: Buschinger, Winter & Faber, 1984: 336; Bolton, 1995b: 188.

Senior synonym of *microcellatus*: Buschinger, Winter & Faber, 1984: 336; Bolton, 1995b: 188; Karaman, M.G. 2011b: 48.

gracilicornis. *Leptothorax gracilicornis* Emery, 1882: 450, fig. (w.q.) SPAIN (Canary Is).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Dalla Torre, 1893: 124; Santschi, 1908: 517; Emery, 1924d: 254; Wheeler, W.M. 1927g: 110; Wellenius, 1955: 10; Báez & Ortega, 1978: 189; Barquin Diez, 1981: 276; Hohmann, *et al.* 1993: 150; Bolton, 1995b: 239; Bolton, 2003: 271; Espadaler, 2007: 119; Borowiec, L. 2014: 178 (see note in bibliography).

Current subspecies: nominal plus *nivarianus*.

***gracilis.** **Leptothorax gracilis* Mayr, 1868b: 89, pl. 5, figs. 89-92 (w.m.) BALTIC AMBER (Eocene).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Scudder, 1891: 715; Dalla Torre, 1893: 124; André, 1895b: 82 (in list); Handlirsch, 1907: 876; Wheeler, W.M. 1915h: 63; Burnham, 1979: 110; Keilbach, 1982: 276; Bolton, 1995b: 239; Bolton, 2003: 271; Dlussky & Rasnitsyn, 2009: 1032; Perkovsky, 2016: 116.

gracilis. *Macromischa (Croesomyrmex) bermudezi* var. *gracilis* Aguayo, 1932: 223 (w.) CUBA.

[Junior secondary homonym of **Leptothorax gracilis* Mayr, 1868b: 89.]

Subspecies of *bermudezi*: Wheeler, W.M. 1937b: 465; Kempf, 1972a: 136; Alayo, 1974: 39.

Replacement name: *Leptothorax anemicus* Baroni Urbani, 1978b: 420.

graecus. *Leptothorax bulgaricus* subsp. *graecus* Forel, 1911d: 336 (w.q.) GREECE.

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of bulgaricus: Emery, 1916b: 173; Müller, 1921: 48; Müller, 1923b: 90; Emery, 1924d: 253; Finzi, 1930d: 314; Zimmermann, 1935: 31; Menozzi, 1936d: 291; Donisthorpe, 1950e: 1062.

Status as species: Agosti & Collingwood, 1987a: 55; Agosti & Collingwood, 1987b: 274 (in key); Collingwood, 1993b: 194; Bolton, 1995b: 239; Bolton, 2003: 271; Bračko, 2006: 141; Petrov, 2006: 96 (in key); Lapeva-Gjonova, *et al.* 2010: 22; Legakis, 2011: 18; Borowiec, L. & Salata, 2012: 542; Kiran & Karaman, 2012: 25; Borowiec, L. 2014: 178; Bračko, *et al.* 2014: 16; Lebas, *et al.* 2016: 328; Salata & Borowiec, 2018c: 49.

gredosi. *Leptothorax gredosi* Espadaler & Collingwood, 1982: 42, figs. 1-14 (w.q.m.) SPAIN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 1995b: 239; Espadaler, 1997b: 30; Bolton, 2003: 271; Borowiec, L. 2014: 178; Lebas, *et al.* 2016: 354.

gribodoi. *Chalepoxenus gribodoi* Menozzi, 1923a: 257, figs (w.q.) ITALY.

[Note: initially misspelled *gridoboi* p. 257, correctly as *gribodoi* p. 258 (fig. caption); from the name of the collector, Prof. Gribodo.]

Menozzi, 1925a: 21 (m.).

Status as species: Finzi, 1924b: 123; Menozzi, 1925a: 21; Grandi, 1935: 101; Bernard, 1950a: 16; Bernard, 1967: 222 (redescription); Kutter, 1968a: 60; Kutter, 1968b: 205; Baroni Urbani, 1971c: 128.

Junior synonym of *muellerianus*: Kutter, 1973d: 276; Buschinger, Erhardt, Fischer & Ofer, 1988: 393; Mei, 1992b: 152; Bolton, 1995b: 145; Casevitz-Weulersse & Galkowsky, 2009: 487; Salata, Borowiec & Trichas, 2018: 788.

grouvellei. *Leptothorax grouvellei* Bondroit, 1918: 135 (w.) FRANCE.

Espadaler, DuMerle & Plateaux, 1983: 277 (q.m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of niger: Emery, 1924d: 255.

Status as species: Espadaler & Collingwood, 1982: 42; Espadaler, DuMerle & Plateaux, 1983: 275 (redescription); Bolton, 1995b: 239; Espadaler, 1997b: 30; Bolton, 2003: 271; Casevitz-Weulersse & Galkowski, 2009: 495; Borowiec, L. 2014: 178; Galkowski & Lebas, 2016: 84 (in key); Lebas, *et al.* 2016: 364.

guanahacabibes. *Leptocephalus versicolor* subsp. *guanahacabibes* Fontenla Rizo, 1995a: 53 (w.) CUBA.

guancha. *Leptocephalus nivarianus* var. *guancha* Santschi, 1925g: 344 (w.q.) SPAIN (Canary Is).

Subspecies of *nivarianus*: Wheeler, W.M. 1927g: 110; Wellenius, 1955: 10; Báez & Ortega, 1978: 189.

Junior synonym of *nivarianus*: Barquin Diez, 1981: 283; Hohmann, *et al.* 1993: 151; Bolton, 1995b: 239.

gundlachi. *Macromischa gundlachi* Wheeler, W.M. 1913b: 488 (w.) CUBA.

Combination in *M. (Croesomyrmex)*: Mann, 1920: 408;

combination in *Croesomyrmex*: Wheeler, W.M. 1931b: 32;

combination in *Leptocephalus (Macromischa)*: Baroni Urbani, 1978b: 446;

combination in *Temnocephalus*: Bolton, 2003: 271.

Status as species: Mann, 1920: 408 (in key); Emery, 1924d: 246; Wheeler, W.M. 1937b: 465; Kempf, 1972a: 137; Alayo, 1974: 15 (in key); Baroni Urbani, 1978b: 446 (redescription); Brandão, 1991: 351; Bolton, 1995b: 239; Fontenla Rizo, 1997a: 50; Fontenla Rizo, 2001: 16 (in key); Bolton, 2003: 271.

Senior synonym of aguayoi: Fontenla Rizo, 1997a: 50.

Senior synonym of alayorum: Fontenla Rizo, 1997a: 50.

Senior synonym of archeri: Fontenla Rizo, 1997a: 50.

Senior synonym of natenzoni: Fontenla Rizo, 1997a: 50.

hadrumetensis. *Leptocephalus (Temnocephalus) hadrumetensis* Santschi, 1918a: 31, fig. A (w.q.) TUNISIA.

Combination in *Temnocephalus*: Bolton, 2003: 271.

Status as species: Emery, 1924d: 259; Bolton, 1995b: 239; Bolton, 2003: 271.

haira. *Leptocephalus haira* Terayama & Onoyama, 1999: 84, fig. 29 (w.) JAPAN.

Combination in *Temnocephalus*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271; Imai, *et al.* 2003: 155.

hasardaghi. *Leptocephalus hasardaghi* Dlussky & Zabelin, 1985: 226, fig. 4 (w.q.) TURKMENIA.

Status as species: Dlussky, Soyunov & Zabelin, 1990: 190.

Junior synonym of *caucasicus*: Radchenko, 1994d: 154 (in key); Bolton, 1995b: 239; Radchenko, 1995d: 5.

Junior synonym of *nadigi*: Schulz, A. in Czechowski, *et al.* 2002: 55.

haytiana. *Macromischa sallei* subsp. *haytiana* Wheeler, W.M. & Mann, 1914: 33, figs. 12-14 (w.q.m.) HAITI.

Subspecies of *sallei*: Mann, 1920: 409 (in key); Emery, 1924d: 247; Wheeler, W.M. 1936b: 200; Wheeler, W.M. 1937b: 464; Kempf, 1972a: 138.

Junior synonym of *sallei*: Baroni Urbani, 1978b: 490; Brandão, 1991: 352; Bolton, 1995b: 239.

heathii. *Leptocephalus nitens* var. *heathii* Wheeler, W.M. 1903c: 245 (w.) U.S.A. (California).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 818.

Subspecies of *nitens*: Wheeler, W.M. 1910g: 567; Wheeler, W.M. 1917a: 507; Emery, 1924d: 258; Creighton, 1950a: 265; Smith, M.R. 1951a: 818; Smith, M.R. 1958c: 132.

Junior synonym of *nitens*: Cole, 1958c: 536; Smith, M.R. 1967: 359; Smith, D.R. 1979: 1394; Bolton, 1995b: 239; Mackay, 2000: 379.

Junior synonym of *andrei*: Ward, 2005: 15; Snelling, R.R. et al. 2014: 38.

helenae. *Temnothorax helenae* Csösz, Heinze & Mikó, 2015: 45, figs. 26A-C (w.) GREECE (mainland and Crete I.), BULGARIA, TURKEY.

Status as species: Lebas, et al. 2016: 368; Salata, Borowiec & Trichas, 2018: 780; Salata & Borowiec, 2018c: 49.

hengshanensis. *Leptothorax hengshanensis* Huang, Chen & Zhou, 2004: 766 (w.) CHINA (Hunan).

[Misspelled as *henghanensis* by Guénard & Dunn, 2012: 55.]

Combination in *Temnothorax*: Zhou, et al. 2010: 9 (in key).

Status as species: Zhou, et al. 2010: 9 (in key); Guénard & Dunn, 2012: 55.

herculea Santschi, 1922 (unavailable name); see under **LEPTOTHORAX**.

hesperius. *Leptothorax hesperius* Santschi, 1909b: 467, fig. 1 (w.q.) SPAIN (Canary Is).

Barquin Diez, 1981: 247 (m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Emery, 1924d: 252; Wheeler, W.M. 1927g: 110; Wellenius, 1955: 10; Báez & Ortega, 1978: 189; Barquin Diez, 1981: 244; Hohmann, et al. 1993: 151; Bolton, 1995b: 239; Bolton, 2003: 271; Borowiec, L. 2014: 179.

himachalensis. *Temnothorax himachalensis* Bharti, Gul & Schulz, 2012: 327, figs. 1-3 (w.) INDIA (Himachal Pradesh, Jammu & Kashmir).

Status as species: Bharti, Guénard, et al. 2016: 45; Bharti, Gul & Sasi, 2016: 752 (in key).

hispaniolae. *Leptothorax (Macromischa) hispaniolae* Baroni Urbani, 1978b: 448, figs. 50, 97 (w.q.m.) DOMINICAN REPUBLIC.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Brandão, 1991: 350; Bolton, 1995b: 239; Bolton, 2003: 271; Lubertazzi, 2019: 188.

hispidus. *Leptothorax (Leptothorax) hispidus* Cole, 1957b: 42, fig. 1 (w.q.) U.S.A. (Texas), MEXICO (Coahuila, Zacatecas).

Wheeler, G.C. & Wheeler, J. 1973b: 71 (l.).

Combination in *L. (Myrafant)*: Smith, D.R. 1979: 1393;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Smith, M.R. 1967: 359; Smith, D.R. 1979: 1393; Bolton, 1995b: 239; Mackay, 2000: 347 (redescription); Mackay & Mackay, 2002: 125; Bolton, 2003: 271.

huatuo. *Temnothorax huatuo* Terayama, 2009: 183, fig. 242 (w.) TAIWAN.

huehuetenangoi. *Leptothorax (Macromischa) huehuetenangoi* Baroni Urbani, 1978b: 451, figs. 64, 106 (w.) GUATEMALA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Brandão, 1991: 350; Bolton, 1995b: 239; Bolton, 2003: 271; Branstetter & Sáenz, 2012: 261.

hyperisabellae. *Leptothorax (Macromischa) hyperisabellae* Baroni Urbani, 1978b: 453, figs. 38, 88 (w.) PUERTO RICO.

Junior synonym of *isabellae*: Snelling, R.R. 1986: 155; Brandão, 1991: 352; Bolton, 1995b: 239.

hyrcanus. *Chalepoxenus hyrcanus* Dubovikoff & Radchenko, 2010: 207, pl. 7, figs. 1-3 (q.) AZERBAIJAN.

Combination in *Temnothorax*: Ward, et al. 2015: 75.

Status as species: Borowiec, L. 2014: 63.

***hystericulus.** **Leptothorax hystericulus* Wheeler, W.M. 1915h: 65 (w.) BALTIC AMBER (Eocene).

[Misspelled as *histriculus* by Dlussky & Rasnitsyn, 2009: 1032, Perkovsky, 2016: 116.]

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Burnham, 1979: 111; Keilbach, 1982: 276; Bolton, 1995b: 239; Bolton, 2003: 271; Dlussky & Rasnitsyn, 2009: 1032; Perkovsky, 2016: 116.

ibericus. *Leptothorax ibericus* Menozzi, 1922b: 329, fig. 2 (w.) SPAIN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Ceballos, 1956: 306; Collingwood, 1978: 84 (in key); Bolton, 1995b: 239; Espadaler, 1997b: 30; Bolton, 2003: 271; Borowiec, L. 2014: 179; Galkowski & Lebas, 2016: 85 (in key); Lebas, et al. 2016: 364.

ikarosi. *Temnothorax ikarosi* Salata, Borowiec & Trichas, 2018: 781, figs. 26-30 (w.) GREECE (Crete I.)

Status as species: Salata & Borowiec, 2018c: 49.

imias. *Leptothorax imias* Fontenla Rizo, 1998: 66, figs. 4, 5 (w.q.) CUBA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271.

imitatrix. *Macromischa bruneri* subsp. *imitatrix* Wheeler, W.M. 1937b: 457 (w.) CUBA.

Subspecies of *bruneri*: Kempf, 1972a: 136; Alayo, 1974: 38.

Junior synonym of *bruneri*: Baroni Urbani, 1978b: 431; Brandão, 1991: 351; Bolton, 1995b: 239.

impurus. *Leptothorax flavigaster* var. *impurus* Santschi, 1939d: 76 (w.) TUNISIA.

Subspecies of flavigaster: Bolton, 1995b: 239.

incompletus. *Temnothorax incompletus* Salata, Borowiec & Trichas, 2018: 783, figs. 31-36 (w.) GREECE (Crete I.)

Status as species: Salata & Borowiec, 2018c: 49.

indra. *Leptothorax indra* Terayama & Onoyama, 1999: 85, fig. 18 (w.q.) JAPAN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271; Imai, et al. 2003: 156.

inermis. *Leptothorax inermis* Forel, 1902c: 229 (w.) INDIA (Himachal Pradesh).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Forel, 1903a: 698; Bingham, 1903: 215; Forel, 1906b: 88; Emery, 1924d: 257; Menozzi, 1939a: 307 (in key); Bolton, 1995b: 239; Bolton, 2003: 271; Bharti, Gul & Schulz, 2012: 334 (in key); Bharti, Guénard, et al. 2016: 45; Bharti, Gul & Sasi, 2016: 752 (in key).

inermis. *Leptothorax hesperius* st. *inermis* Santschi, 1909b: 468, fig. 2 (w.q.) MOROCCO.

[Junior primary homonym of *Leptothorax inermis* Forel, 1902c: 229.]

Replacement name: *Leptothorax hesperius* st. *anacanthus* Santschi, 1912c: 149.

inquilinus. *Temnothorax inquilinus* Ward, et al. 2015: 75.

Replacement name for Chalepoxenus tauricus Radchenko, 1989a: 37. [Junior secondary homonym of *Leptothorax unifasciatus* var. *tauricus* Ruzsky, 1902d: 22.]

insubricus. *Chalepoxenus insubricus* Kutter, 1950b: 337, figs. 1-3 (m.) SWITZERLAND.

Kutter, 1973d: 279 (w.q.).

Junior synonym of *gribodoi*: Kutter, 1968b: 205.

Status as species: Kutter, 1973d: 279; Kutter, 1977c: 136; Poldi, *et al.* 1995: 5 (error).

Junior synonym of *muellerianus*: Buschinger, Erhardt, Fischer & Ofer, 1988: 398; Mei, 1992b: 152; Bolton, 1995b: 145; Salata, Borowiec & Trichas, 2018: 788.

interruptotuberum Forel, 1892i: 314 (*nomen nudum*); see under **LEPTOTHORAX**.

interruptus. *Myrmica interrupta* Schenck, 1852: 106 (w.q.) GERMANY.

[Also described as new by Schenck, 1853: 188.]

Mayr, 1855: 446 (m.).

Combination in *Leptothorax*: Mayr, 1855: 446;

combination in *Temnothorax*: Bolton, 2003: 271.

As unavailable (infrasubspecific) name: Lameere, 1892: 69.

Subspecies of tuberum: Forel, 1874: 85 (in key); Emery & Forel, 1879: 458; André, 1883a: 299; Emery, 1884a: 379; Forel, 1890a: lxxiv; Emery, 1891b: 6; Emery, in Dalla Torre, 1893: 127 (footnote); Emery, 1898c: 134; Forel, 1904f: 425; Bondroit, 1910: 497; Santschi, 1910e: 649; Stitz, 1914: 63; Crawley, 1914a: 91 (in key); Forel, 1915d: 24 (in key); Emery, 1916b: 175; Escherich, 1917: 328 (in key); Bondroit, 1918: 132; Soudek, 1922: 55; Emery, 1924d: 256; Menozzi, 1925d: 28; Stärcke, 1926: 95 (in key); Kutter, 1927: 100; Finzi, 1930d: 315; Gösswald, 1932: 90; Stitz, 1939: 171.

Status as species: Mayr, 1855: 446 (redescription); Gredler, 1858: 28; Smith, F. 1858b: 120; Roger, 1859: 258; Mayr, 1861: 59 (in key); Roger, 1863b: 26; Mayr, 1863: 427; Dours, 1873: 168; André, 1874: 191 (in key); Emery, 1878b: 51; Dalla Torre, 1893: 124; Bondroit, 1911: 12; Donisthorpe, 1915d: 166; Bondroit, 1918: 132; Müller, 1923b: 94; Donisthorpe, 1927b: 185; Lomnicki, 1928: 5; Zimmermann, 1935: 33; Novák, in Novák & Sadil, 1941: 93 (in key); Holgersen, 1943b: 172 (in key); Holgersen, 1944: 171; Novák, in Kratochvíl, *et al.* 1944: 119; van Boven, 1947: 179 (in key); Consani & Zangheri, 1952: 41; Bernard, 1956a: 163; Bernard, 1967: 212 (redescription); Kutter, 1968a: 60; Collingwood & Yarrow, 1969: 71; Baroni Urbani, 1971c: 109; Collingwood, 1971: 162; Bolton & Collingwood, 1975: 5 (in key); Pisarski, 1975: 20; van Boven, 1977: 107; Kutter, 1977c: 131; Collingwood, 1978: 84 (in key); Arnol'di & Dlussky, 1978: 542 (in key); Collingwood, 1979: 75; Agosti & Collingwood, 1987a: 55; Agosti & Collingwood, 1987b: 275 (in key); Atanassov & Dlussky, 1992: 138; Bolton, 1995b: 239; Douwes, 1995: 90; Poldi, *et al.* 1995: 5; Gallé, *et al.* 1998: 215; Czechowski, *et al.* 2002: 48; Bolton, 2003: 271; Bračko, 2006: 141; Markó, Sipos, *et al.* 2006: 70; Petrov, 2006: 98 (in key); Bračko, 2007: 18; Seifert, 2007: 233; Werner & Wiezik, 2007: 141; Casevitz-Weulersse & Galkowski, 2009: 495; Lapeva-Gjonova, *et al.* 2010: 22; Boer, 2010: 51; Csösz, *et al.* 2011: 57; Karaman, M.G. 2011b: 30; Legakis, 2011: 18; Borowiec, L. & Salata, 2012: 542; Czechowski, *et al.* 2012: 145; Kiran & Karaman, 2012: 25; Borowiec, L. 2014: 179; Lebas, *et al.* 2016: 356; Radchenko, 2016: 232; Csösz, Salata & Borowiec, 2018: 109 (redescription); Seifert, 2018: 206.

Senior synonym of knipovitshi: Csösz, Salata & Borowiec, 2018: 109.

Senior synonym of simpliciuscula: Roger, 1859: 258; Mayr, 1861: 59; Roger, 1863b: 26; Mayr, 1863: 427; Dours, 1873: 168; André, 1874: 203 (in list); Forel, 1874: 102 (in list); Emery & Forel, 1879: 459; Dalla Torre, 1893: 124; Donisthorpe, 1915d: 166; Emery, 1924d: 256; Donisthorpe, 1927b: 185; Bolton, 1995b: 239; Casevitz-Weulersse & Galkowski, 2009: 495; Radchenko, 2016: 232.

Senior synonym of *tuberoaffinis*: Plateaux & Cagniant, 2013: 429.

ionia Forel, 1911 (unavailable name); see under **LEPTOTHORAX**

iowensis. *Leptothonax longispinosus* subsp. *iowensis* Buren, 1945: 288.

Replacement name for *Leptothonax (Leptothonax) longispinosus* subsp. *laeviceps* Buren, 1944a: 287. [Junior primary homonym of *Leptothonax tuberum* var. *leviceps* Emery, 1898c: 134.]

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 818.

Subspecies of *longispinosus*: Smith, M.R. 1951a: 818.

Junior synonym of *longispinosus*: Creighton, 1950a: 264; Smith, M.R. 1958c: 131; Smith, D.R. 1979: 1393; Bolton, 1995b: 239; Mackay, 2000: 358.

iranicus. *Leptothonax iranicus* Radchenko, 1994i: 26, fig. 3a,b (w.) IRAN.

Combination in *Temnothonax*: Bolton, 2003: 271.

Status as species: Radchenko, 1994d: 150 (in key); Bolton, 1995b: 239; Radchenko, 1995d: 9; Bolton, 2003: 271; Paknia, *et al.* 2008: 155; Borowiec, L. 2014: 179.

iris. *Macromischa iris* Roger, 1863a: 188 (w.) CUBA.

Combination in *M. (Croesomyrmex)*: Mann, 1920: 422;

combination in *Croesomyrmex*: Wheeler, W.M. 1931b: 23;

combination in *Leptothonax (Macromischa)*: Baroni Urbani, 1978b: 454;

combination in *Temnothonax*: Bolton, 2003: 271.

Status as species: Roger, 1863b: 28; Mayr, 1863: 428; Dalla Torre, 1893: 120; Emery, 1896a: 103 (in list); Wheeler, W.M. 1905b: 127; Wheeler, W.M. 1908a: 142 (in key); Wheeler, W.M. 1913b: 487; Mann, 1920: 422 (redescription); Emery, 1924d: 246; Wheeler, W.M. 1931b: 23 (redescription); Santschi, 1931c: 274; Wheeler, W.M. 1937b: 465; Borgmeier, 1952: 108; Kempf, 1972a: 137; Alayo, 1974: 15 (in key); Baroni Urbani, 1978b: 454 (redescription); Brandão, 1991: 352; Bolton, 1995b: 239; Fontenla Rizo, 2001: 16 (in key); Bolton, 2003: 271.

Senior synonym of *nigripes*: Wheeler, W.M. 1931b: 24; Kempf, 1972a: 137; Baroni Urbani, 1978b: 454; Brandão, 1991: 352; Bolton, 1995b: 239.

Senior synonym of *rufithorax*: Baroni Urbani, 1978b: 454; Brandão, 1991: 352; Bolton, 1995b: 239.

Senior synonym of *tristis* Wheeler: Baroni Urbani, 1978b: 454; Brandão, 1991: 352; Bolton, 1995b: 239.

irregularis Santschi, 1909 (unavailable name); see under **LEPTOTHORAX**.

isabellae. *Macromischa isabellae* Wheeler, W.M. 1908a: 138, pl. 11, figs. 1, 2 (w.q.m.) PUERTO RICO.

Combination in *Leptothonax (Macromischa)*: Baroni Urbani, 1978b: 456;

combination in *Temnothonax*: Bolton, 2003: 271.

Status as species: Mann, 1920: 409 (in key); Emery, 1924d: 246; Wheeler, W.M. 1937b: 464; Smith, M.R. 1937: 846; Kempf, 1972a: 137; Baroni Urbani, 1978b: 4056 (redescription); Snelling, R.R. 1986: 155; Brandão, 1991: 352; Bolton, 1995b: 239; Bolton, 2003: 271.

Senior synonym of *hyperisabellae*: Snelling, R.R. 1986: 155; Brandão, 1991: 352; Bolton, 1995b: 239.

Senior synonym of *mutica*: Snelling, R.R. 1986: 155; Brandão, 1991: 352; Bolton, 1995b: 239.

italicus. *Leptothorax affinis* subsp. *italicus* Consani, in Consani & Zangheri, 1952: 41 (w.) ITALY.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Baroni Urbani, 1971c: 110; Bolton, 1995b: 239; Poldi, *et al.* 1995: 5; Bolton, 2003: 271; Bračko, 2006: 141; Bračko, 2007: 18; Borowiec, L. 2014: 179; Lebas, *et al.* 2016: 348.

ixili. *Leptothorax (Macromischa) ixili* Baroni Urbani, 1978b: 459, figs. 67, 111 (w.) GUATEMALA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Brandão, 1991: 350; Bolton, 1995b: 240; Bolton, 2003: 271; Branstetter & Sáenz, 2012: 262.

jailensis. *Leptothorax jailensis* Arnol'di, 1977a: 200 (w.) RUSSIA (Crimea).

[Misspelled as *jajlensis* by Radchenko, 1995d: 11.]

Radchenko, 1995d: 11 (q.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Arnol'di & Dlussky, 1978: 541 (in key); Radchenko, 1994d: 150 (in key); Bolton, 1995b: 240; Radchenko, 1995d: 11; Bolton, 2003: 271; Werner & Wiezik, 2007: 149; Csösz, *et al.* 2011: 57; Borowiec, L. 2014: 179; Lebas, *et al.* 2016: 348; Radchenko, 2016: 221; Seifert, 2018: 202.

janushevi. *Leptothorax janushevi* Radchenko, 1994i: 27, fig. 4a-f (w.q.m.) TAJIKISTAN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Radchenko, 1994d: 151 (in key); Bolton, 1995b: 240; Radchenko, 1995a: 28; Bolton, 2003: 271.

jaumei. *Macromischa (Macromischa) jaumei* Santschi, 1930e: 78 (w.) CUBA.

Subspecies of *porphyritis*: Wheeler, W.M. 1931b: 18; Wheeler, W.M. 1937b: 464; Kempf, 1972a: 138.

Status as species: Alayo, 1974: 16 (in key).

Junior synonym of *porphyritis*: Baroni Urbani, 1978b: 480; Brandão, 1991: 352.

jesus. *Leptothorax rottenbergi* var. *jesus* Forel, 1913d: 432 (w.) ISRAEL.

Subspecies of *rottenbergi*: Emery, 1924d: 252; Menozzi, 1933b: 68 (in key); Bolton, 1995b: 240; Vonshak, *et al.* 2009: 44; Kiran & Karaman, 2012: 26.

Status as species: Kugler, J. 1988: 257; Tohmé, G. & Tohmé, 2014: 136.

Junior synonym of *semiruber*: Salata, Borowiec & Trichas, 2018: 796.

josephi. *Leptothorax (Myrafant) josephi* Mackay, 2000: 349, figs. 78, 115-120 (w.q.m.) U.S.A. (New Mexico).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Mackay & Mackay, 2002: 125; Bolton, 2003: 271.

juglandeti. *Leptothorax oxianus* subsp. *juglandeti* Arnol'di, in Tarbinsky, 1976: 103, figs. 169-174, 190 (w.q.) KYRGYZSTAN.

Subspecies of *oxianus*: Bolton, 1995b: 240.

Junior synonym of *oxianus*: Radchenko, 1995a: 27; Schultz, R. *et al.* 2006: 203.

junipereti. *Leptothorax junipereti* Arnol'di, 1977a: 203 (w.) RUSSIA (Crimea).

Status as species: Arnol'di & Dlussky, 1978: 543 (in key).

Junior synonym of *knipovitshi*: Radchenko, 1994d: 156 (in key); Bolton, 1995b: 240; Radchenko, 1995c: 18; Radchenko, 2016: 222.

Junior synonym of *interruptus*: Csösz, Salata & Borowiec, 2018: 109.

kabyla Santschi, 1918 (unavailable name); see under **LEPTOTHORAX**.

kashmirensis. *Temnothorax kashmirensis* Bharti, Gul & Schulz, 2012: 329, figs. 4-9 (w.q.) INDIA (Jammu & Kashmir, Himachal Pradesh).

Status as species: Bharti, Guénard, *et al.* 2016: 45; Bharti, Gul & Sasi, 2016: 752 (in key).

kaszabi. *Leptocephalus kaszabi* Pisarski, 1969b: 301, figs. 11-17 (w.q.) MONGOLIA.

Radchenko, 1995c: 19 (m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Pisarski & Krzysztofiak, 1981: 158; Radchenko, 1994b: 112 (in key); Radchenko, 1994d: 157 (in key); Bolton, 1995b: 240; Radchenko, 1995c: 19; Bolton, 2003: 271; Radchenko, 2004: 124; Radchenko, 2005b: 149.

Senior synonym of sachalinensis: Radchenko, 1995c: 19; Radchenko, 2004: 124; Radchenko, 2005b: 149.

kefensis. *Leptocephalus naeviventris* st. *kefensis* Santschi, 1929e: 153 (w.q.) TUNISIA.

Subspecies of naeviventris: Bolton, 1995b: 240.

kemali. *Leptocephalus kemali* Santschi, 1934d: 277 (w.) TURKEY.

Salata & Borowiec, 2018c: 29 (q.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 1995b: 240; Bolton, 2003: 271; Kiran & Karaman, 2012: 25; Borowiec, L. 2014: 180; Salata & Borowiec, 2018c: 29.

kinomurai. *Leptocephalus kinomurai* Terayama & Onoyama, 1999: 86, figs. 23-26 (q. ergatoid q.) JAPAN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271; Imai, *et al.* 2003: 154.

kirghizicus. *Leptocephalus kirghizicus* Tarbinsky, 1976: 100, figs. 134-137 (w.) KYRGYZSTAN.

Radchenko, 1995a: 28 (q.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Radchenko, 1994d: 152 (in key); Bolton, 1995b: 240; Radchenko, 1995a: 28; Bolton, 2003: 271; Schultz, R. *et al.* 2006: 206.

kirillovi. *Leptocephalus tuberum* subsp. *kirillovi* Ruzsky, 1905b: 591, fig. 140 (w.) KAZAKHSTAN.

[Note: alternatively as *L. affinis* subsp. *kirillovi* in Ruzsky, 1905b: 592, caption of fig. 140.]

Subspecies of tuberum: Emery, 1924d: 256; Arnol'di & Dlussky, 1978: 542 (in key); Bolton, 1995b: 240.

Junior synonym of *unifasciatus*: Radchenko, 1995c: 15; Radchenko, 2016: 230.

kiudiria. *Leptocephalus kiudiria* Espadaler, in Cagniant & Espadaler, 1997: 278, figs. 23, 62 (w.q.m.) MOROCCO.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 180; Galkowski & Cagniant, 2017: 189.

knipovitschi. *Leptocephalus (Leptocephalus) tuberum* subsp. *knipovitschi* Karavaiev, 1916: 499 (w.q.) UKRAINE.

[Misspelled as *knipovitschi* by Radchenko, 1995c: 17.]

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of tuberum: Karavaiev, 1927c: 266 (in key); Karavaiev, 1934: 139 (redescription).

Status as species: Radchenko, 1994d: 156 (in key); Bolton, 1995b: 240; Radchenko, 1995c: 17; Bolton, 2003: 271; Borowiec, L. 2014: 180; Radchenko, 2016: 222.

Junior synonym of *interruptus*: Csösz, Salata & Borowiec, 2018: 109.

korbi. *Leptothorax corticalis* var. *korbi* Emery, 1924d: 254.

[First available use of *Leptothorax tuberum* subsp. *corticalis* var. *korbi* Emery, 1898c: 133 (w.q.) AZERBAIJAN; unavailable (infrasubspecific) name.]

Combination in *Temnothorax*: Bolton, 2003: 271.

As unavailable (infrasubspecific) name: Ruzsky, 1905b: 589.

Status as species: Arnol'di, 1948: 211 (in list); Arnol'di, 1977a: 204; Radchenko, 1994d: 154 (in key); Bolton, 1995b: 240; Radchenko, 1995d: 5; Bolton, 2003: 271; Gratiashvili & Barjadze, 2008: 142; Kiran & Karaman, 2012: 25; Borowiec, L. 2014: 180; Radchenko, Yusupov & Fedoseeva, 2015: 162.

koreanus. *Leptothorax (Nesomyrmex) koreanus* Teranishi, 1940: 16 (w.) KOREA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Azuma, 1951: 87; Collingwood, 1976: 303; Onoyama, 1980: 197; Ogata, 1991b: 96; Morisita, *et al.* 1992: 29; Bolton, 1995b: 240; Terayama & Onoyama, 1999: 88 (redescription); Bolton, 2003: 271; Imai, *et al.* 2003: 156; Lyu & Cho, 2003b: 272; Radchenko, 2004: 125; Radchenko, 2005b: 150; Zhou, *et al.* 2010: 9 (in key); Guénard & Dunn, 2012: 55.

kraussei. *Epimyrma kraussei* Emery, 1915a: 262, pl. 4, figs. 14-16 (w.q.) ITALY (Sardinia).

Buschinger, Fischer, *et al.* 1987: 268 (k.).

Combination in *Myrmoxenus*: Cagniant, 2006a: 198; Bračko, 2006: 139;

combination in *Temnothorax*: Ward, *et al.* 2015: 75.

Status as species: Emery, 1916b: 188; Bondroit, 1918: 140; Emery, 1924d: 263; Menozzi, 1928a: 128; Menozzi, 1931c: 39 (redescription); Bernard, 1967: 219 (redescription); Kutter, 1968b: 204; Cagniant, 1970a: 428; Baroni Urbani, 1971c: 131; Kutter, 1973e: 285; Espadaler & Collingwood, 1982: 41; Agosti & Collingwood, 1987a: 56; Agosti & Collingwood, 1987b: 276 (in key); Buschinger, Fischer, *et al.* 1987: 272; Buschinger, 1989: 266; Casevitz-Weulersse, 1990c: 418 (in key); Mei, 1992b: 148; Schulz, A. 1994b: 437; Bolton, 1995b: 188; Poldi, *et al.* 1995: 5; Schembri & Collingwood, 1995: 154; Buschinger, 1997: 8; Cagniant & Espadaler, 1997: 281; Espadaler, 1997b: 29; Tinaut, Ruano & Martinez, 2005: 457; Cagniant, 2006a: 198; Bračko, 2006: 139; Petrov, 2006: 99 (in key); Bračko, 2007: 18; Casevitz-Weulersse & Galkowski, 2009: 491; Legakis, 2011: 17; Borowiec, L. & Salata, 2012: 525; Kiran & Karaman, 2012: 23; Borowiec, L. 2014: 137; Lebas, *et al.* 2016: 328; Salata & Borowiec, 2018c: 47; Salata, Borowiec & Trichas, 2018: 784; Seifert, 2018: 222.

Senior synonym of *foreli* Menozzi: Buschinger, Fischer, *et al.* 1987: 274; Buschinger, 1989: 267; Mei, 1992b: 148; Schulz, A. 1994b: 432; Bolton, 1995b: 188; Poldi, *et al.* 1995: 5; Buschinger, 1997: 8; Salata, Borowiec & Trichas, 2018: 784.

Senior synonym of *vandeli*: Buschinger, Fischer, *et al.* 1987: 274; Buschinger, 1989: 267; Mei, 1992b: 148; Schulz, A. 1994b: 432; Bolton, 1995b: 188; Buschinger, 1997: 8; Casevitz-Weulersse & Galkowski, 2009: 491; Salata, Borowiec & Trichas, 2018: 784.

kraussei. *Leptothorax angustulus* var. *kraussei* Emery, 1916b: 175.

[First available use of *Leptothorax tuberum* subsp. *angustulus* var. *kraussei* Emery, 1915a: 260 (w.) ITALY (Sardinia); unavailable (infrasubspecific) name.]

[*Leptothorax angustulus* var. *kraussei* Krausse, 1912b: 162. *Nomen nudum* (attributed to Emery).]

[Junior secondary homonym of *Epimyrma kraussei* Emery, 1915a: 262.]

Bondroit, 1918: 135 (q.m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of *angustulus*: Emery, 1924d: 252; Kutter, 1927: 100.

Junior synonym of *angustulus*: Bernard, 1967: 202.

Status as species: Bondroit, 1918: 135; Baroni Urbani, 1971c: 111; Espadaler & Collingwood, 1982: 41; Agosti & Collingwood, 1987a: 55; Agosti & Collingwood, 1987b: 274 (in key); Casevitz-Weulersse, 1990c: 418; Bolton, 1995b: 240; Poldi, et al. 1995: 5; Espadaler, 1997b: 30; Bolton, 2003: 271; Petrov, 2006: 96 (in key); Casevitz-Weulersse & Galkowski, 2009: 495; Borowiec, L. 2014: 180.

Replacement name: *Temnothorax mediterraneus* Ward, et al. 2015: 75.

kruegeri. *Leptothorax (Myrmammophilus) arenarius* var. *kruegeri* Kutter, 1928: 66 (q.) LIBYA.
Nomen nudum.

[Repeated in Menozzi, 1934: 162. *Nomen nudum*.]

Subspecies of *arenarius*: Bolton, 1995b: 240 (error).

kubira. *Leptothorax kubira* Terayama & Onoyama, 1999: 89, figs. 11, 12 (w.q.) JAPAN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271; Imai, et al. 2003: 155.

kuixing. *Temnothorax kuixing* Terayama, 2009: 182, fig.241 (w.q.m.) TAIWAN.

kurilensis. *Leptothorax kurilensis* Radchenko, 1994i: 32, fig. 7a-d (w.q.) RUSSIA (Kuril Is., Kunashir I.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Radchenko, 1994d: 148 (in key); Bolton, 1995b: 240; Radchenko, 1996c: 18; Bolton, 2003: 271; Radchenko, 2004: 125.

kutteri. *Epimyrma kutteri* Kutter, 1968b: 204. *Nomen nudum* (attributed to Faber).

kutteri. *Chalepoxenus kutteri* Cagniant, 1973: 148, figs. 1-4 (w.q.m.) FRANCE.

[*Chalepoxenus kutteri* Kutter, 1973d: 277 (diagnosis and in key), figs 1d, 4d, 7a,b (attributed to Cagniant); unavailable name (published without designation of type-material).]

[Note: Kutter, 1973c: 277 (date of publication 28.xii.1973) antedates, by a mere three days, the description of Cagniant, 1973: 148 (date of publication 31.xii.1973). However, in the figure captions and elsewhere, Kutter refers the name *kutteri* to "Cagniant, in litt.", and does not nominate type-material. Hence Kutter's reference is an unavailable name, and the species is properly attributed to Cagniant.]

Combination in *Temnothorax*: Ward, et al. 2015: 75.

Status as species: Buschinger, Erhardt, Fischer & Ofer, 1988: 391; Bolton, 1995b: 145; Espadaler, 1997b: 29; Tinaut, Ruano & Martinez, 2005: 460; Casevitz-Weulersse & Galkowski, 2009: 487; Borowiec, L. 2014: 63; Lebas, et al. 2016: 268.

laciniatus. *Leptothorax laciniatus* Stitz, 1917: 338, fig. 5 (w.) ALGERIA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Emery, 1924d: 254; Bolton, 1995b: 240; Bolton, 2003: 271; Borowiec, L. 2014: 180.

laconicus. *Temnothorax laconicus* Csösz, et al. 2014: 82, figs. 5-7 (w.) GREECE (date of publication 31.iii.2014).

[*Temnothorax laconicus* Borowiec, L. & Salata, 2013: 373 (date of publication 28.xii.2013). *Nomen nudum*; attributed to Csösz, et al.]

Status as species: Borowiec, L. 2014: 180; Csösz, Heinze & Mikó, 2015: 30 (redescription); Lebas, *et al.* 2016: 358; Salata & Borowiec, 2018c: 50.

laestrygon. *Leptothorax niger* st. *laestrygon* Santschi, 1931a: 7 (w.q.m.) ITALY (Sicily).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Baroni Urbani, 1971c: 111; Schembri & Collingwood, 1981: 433; Agosti & Collingwood, 1987b: 275 (in key); Bolton, 1995b: 240; Poldi, *et al.* 1995: 5; Bolton, 2003: 271; Petrov, 2006: 98 (in key); Kiran & Karaman, 2012: 25; Borowiec, L. 2014: 181 (see note in bibliography); Lebas, *et al.* 2016: 364.

laetus. *Macromischa affinis* subsp. *laeta* Wheeler, W.M. 1937b: 456 (w.) CUBA.

Combination in *Leptothorax*: Baroni Urbani, 1978b: 501;

combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of *affinis*: Kempf, 1972a: 135; Alayo, 1974: 37.

Junior synonym of *similis*: Baroni Urbani, 1978b: 501.

Status as species: Snelling, R.R. 1986: 154; Brandão, 1991: 352; Bolton, 1995b: 240; Fontenla Rizo, 1997a: 51; Fontenla Rizo, 2001: 17 (in key); Bolton, 2003: 271.

Senior synonym of maerens: Snelling, R.R. 1986: 154; Brandão, 1991: 352; Bolton, 1995b: 240; Fontenla Rizo, 1997a: 51.

Senior synonym of similis: Snelling, R.R. 1986: 154; Brandão, 1991: 352; Bolton, 1995b: 240; Fontenla Rizo, 1997a: 51.

Senior synonym of umbratipes: Fontenla Rizo, 1997a: 51.

laeviceps. *Leptothorax* (*Leptothorax*) *longispinosus* subsp. *laeviceps* Buren, 1944a: 287 (w.) U.S.A. (Iowa).

[**Junior primary homonym of** *Leptothorax tuberum* var. *leviceps* Emery, 1898c: 134.]

Replacement name: *Leptothorax longispinosus* subsp. *iowensis* Buren, 1945: 288.

laevissima. *Macromischa laevissima* Wheeler, W.M. 1911h: 205 (w.) MEXICO (Veracruz).

Status as species: Mann, 1920: 409 (in key); Emery, 1924d: 247; Wheeler, W.M. 1937b: 464; Kempf, 1972a: 137.

Junior synonym of *subditivus*: Baroni Urbani, 1978b: 512; Brandão, 1991: 353; Bolton, 1995b: 240.

lagrecai. *Leptothorax* (*Leptothorax*) *lagrecai* Baroni Urbani, 1964b: 48, figs. 12, 13 (w.q.) ITALY (Sicily).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Baroni Urbani, 1971c: 113; Bolton, 1995b: 240; Poldi, *et al.* 1995: 5; Bolton, 2003: 271; Borowiec, L. 2014: 181; Lebas, *et al.* 2016: 360.

latispina. *Macromischa porphyritis* var. *latispina* Wheeler, W.M. 1931b: 18 (w.) CUBA.

Subspecies of *porphyritis*: Wheeler, W.M. 1937b: 464; Kempf, 1972a: 138; Alayo, 1974: 35.

Junior synonym of *porphyritis*: Baroni Urbani, 1978b: 480; Brandão, 1991: 352; Bolton, 1995b: 240.

laurae. *Leptothorax laurae* Emery, 1884a: 380 (w.q.) TUNISIA.

Santschi, 1907: 332 (m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: André, 1885: 852; Emery, 1891b: 5 (in key); Dalla Torre, 1893: 125; Santschi, 1907: 332; Karavaiev, 1912a: 3; Emery, 1924d: 254; Santschi, 1929c: 100; Santschi, 1934f: 169; Menozzi, 1940: 270; Cagniant, 1970a: 428; Bolton, 1995b: 240;

Cagniant & Espadaler, 1997: 270; Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 181 (see note in bibliography).

Current subspecies: nominal plus *antoniae*, *colettae*, *rosae*.

leigong. *Temnothorax leigong* Terayama, 2009: 184 (w.) TAIWAN.

leimu. *Temnothorax leimu* Terayama, 2009: 182, fig. 238 (w.) TAIWAN.

leoni. *Leptocephalus leoni* Arnol'di, 1971: 1820, fig. 1(1,2) (w.q.) KAZAKHSTAN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Arnol'di & Dlussky, 1978: 540 (in key); Radchenko, 1994d: 150 (in key); Bolton, 1995b: 240; Bolton, 2003: 271; Radchenko, 1995d: 10.

lereddei. *Leptocephalus lereddei* Bernard, 1953a: 174, fig. 6 (w.) ALGERIA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 1995b: 240; Bolton, 2003: 271; Borowiec, L. 2014: 181.

leucacanthus. *Leptocephalus (Macromischa) leucacanthus* Baroni Urbani, 1978b: 460, figs. 61, 103 (w.q.) MEXICO (Guerrero).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Brandão, 1991: 350; Bolton, 1995b: 240; Bolton, 2003: 271.

leviceps. *Leptocephalus tuberum* var. *leviceps* Emery, 1898c: 134 (w.) ITALY.

Combination in *Temnothorax*: Bolton, 2003: 271.

As unavailable (infrasubspecific) name: Emery, 1914d: 157 (footnote).

Subspecies of exilis: Emery, 1916b: 174; Bondroit, 1918: 138; Menozzi, 1921: 27; Finzi, 1924a: 13; Emery, 1924d: 254; Menozzi, 1925d: 27; Finzi, 1933: 164; Baroni Urbani, 1971c: 107; Poldi, et al. 1995: 4.

Junior synonym of *exilis*: Baroni Urbani, 1971d: 1041.

Status as species: Collingwood, 1978: 70, 85 (in key); Agosti & Collingwood, 1987b: 275 (in key); Bolton, 1995b: 240; Bolton, 2003: 271; Petrov, 2006: 97 (in key); Borowiec, L. 2014: 181; Lebas, et al. 2016: 350.

leyeensis. *Temnothorax leyeensis* Zhou, et al. 2010: 23, figs. 22-24 (w.) CHINA (Guangxi).

Status as species: Guénard & Dunn, 2012: 55.

lichtensteinii. *Leptocephalus lichtensteinii* Bondroit, 1918: 123 (w.q.m.) FRANCE.

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of nylanderii: Menozzi, 1921: 28; Menozzi, 1922b: 329; Müller, 1923a: 71; Müller, 1923b: 95; Emery, 1924d: 255; Menozzi, 1925d: 27; Donisthorpe, 1926a: 8; Grandi, 1935: 101; Zimmermann, 1935: 34; Novák, in Novák & Sadil, 1941: 91 (in key); Novák, in Kratochvíl, et al. 1944: 118; Ceballos, 1956: 306.

Status as species: Bondroit, 1920a: 154; Bernard, 1956a: 162; Bernard, 1967: 205 (redescription); Collingwood & Yarrow, 1969: 70; Baroni Urbani, 1971c: 114; Baroni Urbani, 1976: 214; Collingwood, 1978: 84 (in key); Agosti & Collingwood, 1987a: 55; Agosti & Collingwood, 1987b: 274 (in key); Casevitz-Weulersse, 1990c: 418 (in key); Bolton, 1995b: 240; Poldi, et al. 1995: 5; Espadaler, 1997b: 30; Bolton, 2003: 271; Bračko, 2006: 141; Petrov, 2006: 97 (in key); Bračko, 2007: 18; Werner & Wiezik, 2007: 149; Casevitz-Weulersse & Galkowski, 2009: 495; Karaman, M.G. 2011b: 30; Borowiec, L. & Salata, 2012: 542; Borowiec, L. & Salata, 2013: 373; Borowiec, L. 2014: 181; Csösz, et al. 2014: 85 (redescription); Csösz, Heinze & Mikó, 2015: 33 (redescription); Lebas, et al. 2016: 358; Salata & Borowiec, 2018c: 50; Seifert, 2018: 217.

liebi. *Leptocephalus (Myrafant) liebi* Mackay, 2000: 353, figs. 16, 36, 42, 121, 122 (w.) U.S.A. (Texas).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Mackay & Mackay, 2002: 126; Bolton, 2003: 271.

lindae. *Leptothorax (Myrafant) lindae* Mackay, 2000: 356, figs. 51, 52, 123, 124 (w.q.) U.S.A. (California).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271.

Junior synonym of *nevadensis*: Ward, 2005: 16; Snelling, R.R. *et al.* 2014: 56.

lindbergi. *Leptothorax lindbergi* Santschi, 1931a: 8, fig. 1 (w.) MOROCCO.

Status as species: Santschi, 1939c: 2; Bolton, 1995b: 240.

Junior synonym of *trabutii*: Cagniant & Espadaler, 1997: 278.

littoralis Santschi, 1918 (unavailable name); see under **LEPTOTHORAX**.

liviae. *Leptothorax liviae* Agosti & Collingwood, in Collingwood, *et al.* 2011: 430, pls. 44-46, figs. 36, 37 (w.) UNITED ARAB EMIRATES.

Collingwood, *et al.* 2011: 430 (q., not described); Sharaf, Akbar, *et al.* 2017: 9 (q.).

Combination in *Temnothorax*: Borowiec, L. 2014: 181.

Status as species: Borowiec, L. 2014: 181; Sharaf, Akbar, *et al.* 2017: 6 (redescription); Sharaf, Aldawood, Economo, *et al.* 2019: 3 (in key).

**longaevis*. **Leptothorax longaevis* Wheeler, W.M. 1915h: 65 (w.) BALTIC AMBER (Eocene).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Burnham, 1979: 111; Keilbach, 1982: 276; Bolton, 1995b: 240; Bolton, 2003: 271; Dlussky & Rasnitsyn, 2009: 1032; Perkovsky, 2016: 116.

longipilosus. *Leptothorax longipilosus* Santschi, 1912f: 174, fig. 4 (w.) TUNISIA.

Santschi, 1923f: 334 (q.).

Combination in *L. (Temnothorax)*: Santschi, 1918a: 32;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Santschi, 1923f: 334; Emery, 1924d: 259; Bolton, 1995b: 240; Bolton, 2003: 271; Borowiec, L. 2014: 182.

longipilosus. *Leptothorax longipilosus* Tarbinsky, 1976: 88, figs. 130-133 (q.) KYRGYZSTAN.

[**Junior primary homonym** of *Leptothorax longipilosus* Santschi, 1912f: 174.]

Combination in *Chalepoxenus*: Radchenko, 1989a: 40.

Replacement name: *Leonomyrma tarbinskii* Arnol'di, in Tarbinsky, 1976: 88 (footnote).

longispinosus. *Leptothorax longispinosus* Roger, 1863a: 180 (w.) U.S.A. (no state data).

Emery, 1895c: 321 (q.); Wheeler, W.M. 1903c: 238 (m.); Crozier, 1970: 117 (k.); Wheeler, G.C. & Wheeler, J. 1989a: 323 (l.).

Combination in *L. (Myrafant)*: Smith, M.R. 1950: 30;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Roger, 1863b: 26; Mayr, 1863: 427; Mayr, 1886d: 451 (in key); Cresson, 1887: 261; Dalla Torre, 1893: 125; Emery, 1895c: 321; Wheeler, W.M. 1903c: 236; Wheeler, W.M. 1905f: 385; Wheeler, W.M. 1906b: 9; Wheeler, W.M. 1910g: 567; Wheeler, W.M. 1916m: 588; Emery, 1924d: 259; Dennis, 1938: 289; Wesson, L.G. & Wesson, R.G. 1940: 96; Creighton, 1950a: 264; Smith, M.R. 1951a: 818; Smith, M.R. 1958c: 131; Carter, 1962a: 6 (in list); Smith, M.R. 1967: 359; Francoeur, 1977b: 207; Smith, D.R. 1979: 1393; DuBois & LaBerge, 1988: 139; Wheeler, G.C., *et al.* 1994: 303; Bolton, 1995b: 240; Mackay, 2000: 358 (redescription); Bolton, 2003: 271; Deyrup &

Cover, 2004a: 58 (in key); Coovert, 2005: 73; MacGown & Forster, 2005: 72; Ellison, *et al.* 2012: 328; Borowiec, L. 2014: 182.

Senior synonym of *iowensis*: Creighton, 1950a: 264; Smith, M.R. 1958c: 131; Smith, D.R. 1979: 1393; Bolton, 1995b: 240; Mackay, 2000: 358.

lucayensis. *Macromischa lucayensis* Forel, 1901e: 340 (w.) BAHAMAS.

Status as species: Wheeler, W.M. 1905b: 127; Emery, 1924d: 247; Wheeler, W.M. 1937b: 464; Kempf, 1972a: 137.

Junior synonym of *pastinifer*: Baroni Urbani, 1978b: 471; Brandão, 1991: 352; Bolton, 1995b: 240; Fontenla Rizo, 1997a: 51.

***lucidus*.** *Temnothorax lucidus* Csösz, Heinze & Mikó, 2015: 20, figs. 10A-C (w.) TURKEY, GREECE (Crete I.).

Status as species: Salata, Borowiec & Trichas, 2018: 785; Salata & Borowiec, 2018c: 50.

luciliae. *Macromischa luciliae* Mann, 1935, 35, fig. 1 (w.) GUATEMALA (taken in quarantine in Honolulu, Hawaii).

Status as species: Wheeler, W.M. 1937b: 464; Kempf, 1972a: 137.

Junior synonym of *subditivus*: Baroni Urbani, 1978b: 512; Brandão, 1991: 353; Bolton, 1995b: 240.

lugens. *Macromischa lugens* Roger, 1863a: 188 (w.) CUBA.

Aguayo, 1932: 221 (q.).

Combination in *M. (Macromischa)*: Mann, 1920: 413;

combination in *Croesomyrmex*: Wheeler, W.M. 1931b: 21;

combination in *Macromischa (Croesomyrmex)*: Wheeler, W.M. 1937b: 465.

Status as species: Roger, 1863b: 28; Mayr, 1863: 428; Dalla Torre, 1893: 120; Emery, 1896a: 103 (in list); Wheeler, W.M. 1905b: 127; Wheeler, W.M. 1908a: 141 (in key); Wheeler, W.M. 1913b: 488; Mann, 1920: 419 (redescription); Emery, 1924d: 247; Wheeler, W.M. 1931b: 21 (redescription); Aguayo, 1932: 221; Wheeler, W.M. 1937b: 465; Borgmeier, 1952: 109; Kempf, 1972a: 137; Alayo, 1974: 16 (in key).

Junior synonym of *versicolor*: Baroni Urbani, 1978b: 523; Brandão, 1991: 353; Bolton, 1995b: 240.

luteointerruptus Forel, 1886 (*nomen nudum*); see under **LEPTOTHORAX**.

luteointerruptus. *Temnothorax luteointerruptus* Legakis, 2011: 18. *Nomen nudum*.

[Note: this name is a reiteration, with a change of combination and a change of rank, of *Leptothorax tuberum* r. *luteointerruptus* Forel, 1886e: clxviii. *Nomen nudum*.]

luteus. *Leptothorax tuberum* r. *luteus* Forel, 1874: 85 (in key), 95 (w.) SWITZERLAND.

André, 1883a: 304 (q.); Bernard, 1956a: 162 (m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

As unavailable (infrasubspecific) name: Emery & Forel, 1879: 459.

Subspecies of *unifasciatus*: Dalla Torre, 1893: 129.

Subspecies of *tuberum*: André, 1883a: 299; Forel, 1889: 257; Saunders, E. 1890: 204; Forel, 1895d: 229; Forel, 1911d: 334; Forel, 1913d: 432; Stitz, 1914: 63; Forel, 1915d: 23 (in key); Wheeler, W.M. & Mann, 1916: 171; Soudek, 1922: 55.

Status as species: André, 1881b: 71; Emery, 1916b: 173; Menozzi, 1918: 85; Bondroit, 1918: 133; Emery, 1924d: 254; Menozzi, 1933b: 68 (in key); Menozzi, 1936d: 290; Stitz, 1939: 176; Novák, in Novák & Sadil, 1941: 93 (in key); Ceballos, 1956: 306; Bernard, 1956a: 162; Baroni Urbani, 1964b: 46; Bernard, 1967: 208 (redescription); Kutter, 1968a: 60; Collingwood & Yarrow, 1969: 72; Baroni Urbani, 1971c: 114; Kutter, 1977c:

131; Collingwood, 1978: 85 (in key); Arnol'di & Dlussky, 1978: 542 (in key); Agosti & Collingwood, 1987a: 55; Agosti & Collingwood, 1987b: 275 (in key); Bolton, 1995b: 240; Poldi, *et al.* 1995: 5; Espadaler, 1997b: 30; Bolton, 2003: 271; Petrov, 2006: 97 (in key); Werner & Wiezik, 2007: 150; Casevitz-Weulersse & Galkowski, 2009: 495; Vonshak, *et al.* 2009: 44; Legakis, 2011: 18; Borowiec, L. & Salata, 2012: 542; Kiran & Karaman, 2012: 26; Borowiec, L. 2014: 182; Seifert, *et al.* 2014: 54; Lebas, *et al.* 2016: 360; Seifert, 2018: 201.

Senior synonym of *tristis*: Seifert, *et al.* 2014: 51.

maerens. *Macromischa affinis* subsp. *maerens* Wheeler, W.M. 1937b: 456 (w.) CUBA.

Subspecies of *affinis*: Kempf, 1972a: 135; Alayo, 1974: 37.

Junior synonym of *similis*: Baroni Urbani, 1978b: 501.

Junior synonym of *laetus*: Snelling, R.R. 1986: 154; Brandão, 1991: 352; Bolton, 1995b: 240; Fontenla Rizo, 1997a: 51.

makora. *Leptothorax makora* Terayama & Onoyama, 1999: 90, fig. 15 (w.) JAPAN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271; Imai, *et al.* 2003: 156.

manni. *Leptothorax manni* Wheeler, W.M. 1914b: 53 (w.q.m.) MEXICO (Hidalgo).

Combination in *L. (Myrafant)*: Kempf, 1972a: 132;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Emery, 1924d: 258; Kempf, 1972a: 132; Bolton, 1995b: 240; Mackay, 2000: 361 (redescription); Bolton, 2003: 271.

manni. *Macromischa manni* Wheeler, W.M. 1931b: 19 (w.) CUBA.

[**Junior secondary homonym** of *Leptothorax manni* Wheeler, W.M. 1914b: 53.]

Wheeler, G.C. & Wheeler, J. 1960b: 24 (l.).

Status as species: Aguayo, 1931: 177; Wheeler, W.M. 1937b: 464; Kempf, 1972a: 137; Alayo, 1974: 16 (in key).

Replacement name: *Macromischa manni* var. *villarensis* Aguayo, 1931: 177 (date of publication (31).xii.1931).

[Note: *villarensis* junior synonym of *manni* Wheeler, 1931b: 19 (date of publication (31).vii.1931) (synonymy by Baroni Urbani, 1978b: 531; Snelling, R.R. 1986: 155); hence *villarensis* first available replacement name (Snelling, R.R. 1986: 155).]

manni. *Leptothorax (Dichothonax) manni* Wesson, L.G. 1935: 208 (w.q.m.) U.S.A. (Tennessee).

[Unresolved junior primary homonym of *Leptothorax manni* Wheeler, W.M. 1914b: 53 (Bolton, 1995b: 240).]

Junior synonym of *pergandei*: Wesson, L.G. 1939: 180; Creighton, 1950a: 260; Smith, M.R. 1951a: 820; Smith, D.R. 1979: 1396; Bolton, 1995b: 240; Mackay, 1993a: 289; Mackay, 2000: 403; Coovert, 2005: 77.

maoerensis. *Temnothorax maoerensis* Zhou, *et al.* 2010: 15, figs. 7-9 (w.) CHINA (Guangxi).

Status as species: Guénard & Dunn, 2012: 55.

mariposa. *Leptothorax nitens* var. *mariposa* Wheeler, W.M. 1917a: 507 (w.) U.S.A. (California).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 818;

combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of *nitens*: Emery, 1924d: 258; Smith, M.R. 1951a: 818.

Status as species: Cole, 1958c: 536; Smith, M.R. 1967: 359; Smith, D.R. 1979: 1393; Bolton, 1995b: 240; Mackay, 2000: 362 (redescription); Mackay & Mackay, 2002: 127; Bolton, 2003: 271.

Junior synonym of *nitens*: Creighton, 1950a: 265; Ward, 2005: 17; Snelling, R.R. *et al.* 2014: 56.

marocanus. *Leptothorax bugnioni* var. *marocana* Santschi, 1909b: 463 (q.m.) MOROCCO.

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of *bugnioni*: Emery, 1924d: 251.

Status as species: Santschi, 1936c: 203; Bolton, 1995b: 241; Cagniant & Espadaler, 1997: 281; Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 182.

martellii Menozzi, 1940 (unavailable name); see under **LEPTOTHORAX**.

maryanae. *Leptothorax (Myrafant) maryanae* Mackay, 2000: 364, figs. 34, 42, 129-131 (w.q.m.) U.S.A. (California).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271.

Junior synonym of *nevadensis*: Ward, 2005: 17; Snelling, R.R. *et al.* 2014: 56.

massiliensis. *Leptothorax massiliensis* Bondroit, 1918: 133 (w.) FRANCE.

Bernard, 1967: 209 (q.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Emery, 1924d: 254; Bernard, 1956a: 162; Baroni Urbani, 1962: 131; Bernard, 1967: 209 (redescription); Collingwood & Yarrow, 1969: 72; Baroni Urbani, 1971c: 115; Collingwood, 1978: 85 (in key); Agosti & Collingwood, 1987b: 275 (in key); Bolton, 1995b: 241; Poldi, *et al.* 1995: 5; Bolton, 2003: 271; Petrov, 2006: 97 (in key).

Junior synonym of *racovitzai*: Casevitz-Weulersse & Galkowski, 2009: 496; Seifert, *et al.* 2014: 51.

mauritanicus. *Leptothorax cabrerae* st. *mauritanicus* Santschi, 1909b: 466 (w.q.m.) MOROCCO.

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of *cabrerae*: Emery, 1924d: 252; Santschi, 1929e: 151.

Status as species: Santschi, 1939c: 2; Bolton, 1995b: 241; Cagniant & Espadaler, 1997: 279; Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 182.

maurus. *Leptothorax maurus* Santschi, 1921b: 427 (w.) MOROCCO.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bernard, 1945: 134; Bolton, 1995b: 241 (error); Bolton, 2003: 271 (error); Borowiec, L. 2014: 182 (error).

Junior synonym of *spinosus*: Cagniant, 1970b: 208.

maximus. *Leptothorax anacanthus* st. *maximus* Santschi, 1931a: 6 (w.) MOROCCO.

Subspecies of *anacanthus*: Bolton, 1995b: 241.

maya. *Macromischa azteca* var. *maya* Wheeler, W.M. 1937b: 458 (w.q.) GUATEMALA.

Subspecies of *aztecus*: Kempf, 1972a: 136.

Junior synonym of *aztecus*: Baroni Urbani, 1978b: 425; Brandão, 1991: 351; Bolton, 1995b: 241.

mediorufus. *Leptothorax rugatulus* var. *mediorufus* Wheeler, W.M. 1917a: 510 (w.q.) U.S.A. (California).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 819.

Subspecies of *rugatulus*: Emery, 1924d: 259; Smith, M.R. 1951a: 819.

Junior synonym of *rugatulus*: Creighton, 1950a: 269; Smith, M.R. 1958c: 132; Smith, D.R. 1979: 1394; Bolton, 1995b: 241; Mackay, 2000: 394; Snelling, R.R. *et al.* 2014: 72.

mediterraneus. *Temnothorax mediterraneus* Ward, *et al.* 2015: 75.

Replacement name for *Leptothorax angustulus* var. *kraussei* Emery, 1916b: 175. [Junior secondary homonym of *Epimyrma kraussei* Emery, 1915a: 262.]

Status as species: Galkowski & Lebas, 2016: 84 (in key); Lebas, *et al.* 2016: 344; Galkowski & Cagniant, 2017: 185 (redescription).

megalops. *Leptothorax (Icothorax) megalops* Hamann & Klemm, 1967: 417, fig. 1 (w.q.) SUDAN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 1982: 331 (redescription); Bolton, 1995b: 241; Bolton, 2003: 271; Collingwood, *et al.* 2011: 431; Borowiec, L. 2014: 182; Prebus, 2015: 36 (redescription); Sharaf, Akbar, *et al.* 2017: 10; Sharaf, Aldawood, Economo, *et al.* 2019: 4 (in key).

mekira. *Temnothorax mekira* Terayama & Kubota, in Terayama, Kubota, *et al.* 2011: 77, figs. 2-4 (w.) JAPAN (Volcano Is: Minami-iwo-to I.).

melanderi. *Leptothorax melanderi* Wheeler, W.M. 1909e: 81 (w.) U.S.A. (Idaho).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 818.

Status as species: Wheeler, W.M. 1910g: 567; Wheeler, W.M. 1917a: 508; Emery, 1924d: 258; Menozzi, 1932b: 311; Cole, 1936a: 36; Smith, M.R. 1951a: 818; Blacker, 1992: 7.

Subspecies of *nevadensis*: Creighton, 1950a: 266; Smith, M.R. 1958c: 131; Yensen, *et al.* 1977: 183; Smith, D.R. 1979: 1393; Bolton, 1995b: 241.

Junior synonym of *nevadensis*: Mackay, 2000: 376 Ward, 2005: 16; Snelling, R.R. *et al.* 2014: 56.

melanicus. *Leptothorax desioi* var. *melanica* Menozzi, 1939a: 307 (w.) PAKISTAN.

Subspecies of desioi: Bolton, 1995b: 241; Bharti, Gul & Schulz, 2012: 334 (in key); Bharti, Guénard, *et al.* 2016: 45; Bharti, Gul & Sasi, 2016: 752 (in key).

melanocephalus. *Leptothorax melanocephalus* Emery, 1870: 197 (w.) FRANCE (Corsica).

As unavailable (infrasubspecific) name: Emery & Forel, 1879: 458; Emery, 1916b: 174; Emery, 1924d: 256.

Subspecies of tuberum: André, 1883a: 298; Forel, 1890a: lxxiv; Emery, 1891b: 5; Dalla Torre, 1893: 128; Emery, 1914d: 158; Santschi, 1919e: 242; Menozzi, 1925d: 28; Ceballos, 1956: 307.

Junior synonym of *nigriceps*: Forel, 1874: 102 (in list); Stärcke, 1926: 94 (in key).

Junior synonym of *tuberum*: Casevitz-Weulersse, 1990c: 420; Bolton, 1995b: 241; Casevitz-Weulersse & Galkowski, 2009: 496; Legakis, 2011: 18; Borowiec, L. 2014: 192.

Status as species: Bondroit, 1920a: 154; Baroni Urbani, 1971c: 115; Collingwood, 1978: 70; Agosti & Collingwood, 1987a: 55; Agosti & Collingwood, 1987b: 276 (in key); Atanassov & Dlussky, 1992: 138; Poldi, *et al.* 1995: 5; Karaman, G.S. & Karaman, 2005: 55; Petrov, 2006: 98 (in key); Lapeva-Gjonova, *et al.* 2010: 23; Karaman, M.G. 2011b: 31; Radchenko, 2016: 223; Salata & Borowiec, 2018c: 50.

melanocephala. *Macromischa melanocephala* Wheeler, W.M. 1931b: 15 (w.q.) CUBA.

[**Junior secondary homonym** of *Leptothorax melanocephalus* Emery, 1870: 197.]

Status as species: Wheeler, W.M. 1937b: 464; Kempf, 1972a: 137; Alayo, 1974: 16 (in key); Fontenla Rizo, 1993: 5 (error).

Replacement name: *Leptothorax nigricans* Baroni Urbani, 1978b: 467.

melanoticus. *Leptothorax fortinodis* var. *melanoticus* Wheeler, W.M. 1903c: 235 (w.q.) U.S.A. (Illinois).

Wesson, L.G. & Wesson, R.G. 1940: 94 (m.).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 817.

Subspecies of *fortinodis*: Wheeler, W.M. 1910g: 566; Wheeler, W.M. 1917i: 461; Emery, 1924d: 259; Wesson, L.G. & Wesson, R.G. 1940: 94; Buren, 1944a: 287; Smith, M.R. 1951a: 817.

Junior synonym of *schaumii*: Creighton, 1950a: 271; Smith, M.R. 1958c: 132; Smith, D.R. 1979: 1394; Bolton, 1995b: 241; Mackay, 2000: 403; Coovert, 2005: 74.

melas. *Leptothorax melas* Espadaler, Plateaux & Casevitz-Weulersse, 1984: 123, figs. 1-15 (w.q.m.) FRANCE (Corsica).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Casevitz-Weulersse, 1990c: 418 (in key); Bolton, 1995b: 241; Bolton, 2003: 271; Seifert, 2006: 5; Casevitz-Weulersse & Galkowski, 2009: 495; Borowiec, L. 2014: 182; Galkowski & Lebas, 2016: 84 (in key); Lebas, *et al.* 2016: 374.

melinus. *Leptothorax (Myrafant) melinus* Mackay, 2000: 368, figs. 29, 33, 132 (w.) U.S.A. (New Mexico).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Mackay & Mackay, 2002: 128; Bolton, 2003: 271.

Junior synonym of *nitens*: Ward, 2005: 17; Snelling, R.R. *et al.* 2014: 56.

melleus. *Leptothorax bulgaricus* var. *melleus* Forel, 1904b: 375 (w.q.) TAJIKISTAN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of bulgaricus: Ruzsky, 1905b: 575; Emery, 1924d: 253; Kuznetsov-Ugamsky, 1926a: 75; Kuznetsov-Ugamsky, 1927d: 40.

Status as species: Pisarski, 1969b: 298; Dlussky, Soyunov & Zabelin, 1990: 190; Radchenko, 1994d: 153 (in key); Bolton, 1995b: 241; Radchenko, 1995a: 26; Bolton, 2003: 271; Schultz, R. *et al.* 2006: 206.

Senior synonym of balchashensis: Radchenko, 1995a: 26.

Senior synonym of csikii: Radchenko, 1995a: 26.

melnikovi. *Leptothorax melnikovi* Ruzsky, 1905b: 599, figs. 143, 144 (w.) KAZAN.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Emery, 1924d: 254; Arnol'di & Dlussky, 1978: 540 (in key); Radchenko, 1994d: 153 (in key); Bolton, 1995b: 241; Radchenko, 1996c: 18; Bolton, 2003: 271; Zryanin & Zryanina, 2007: 231; Gratiashvili & Barjadze, 2008: 142; Borowiec, L. 2014: 183.

menozzii. *Myrmoxenus gordiagini* subsp. *menozzii* Finzi, 1924b: 120 (q.m.) ITALY.

Status as species: Kutter, 1968b: 205.

Subspecies of *gordiagini*: Baroni Urbani, 1971c: 127.

Junior synonym of *gordiagini*: Buschinger, Winter & Faber, 1984: 336; Bolton, 1995b: 188.

messiniaensis. *Temnothorax messiniaensis* Salata & Borowiec, 2019b: 107, figs. 3-6, 10, 12, 14 (w.q.) GREECE (Peloponnese, Ionian Is.).

mexicanus. *Leptothorax (Myrafant) mexicanus* Mackay, 2000: 369, figs. 26, 30, 133, 134 (w.q.m.) MEXICO (Coahuila, San Luis Potosi).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271.

michali. *Temnothorax michali* Radchenko, 2004: 117, figs. 16-21 (w.q.) NORTH KOREA.

Status as species: Radchenko, 2005b: 150.

microcellatus. *Myrmetaerus microcellatus* Soudek, 1925a: 33, figs. 1-6 (w.q.) CROATIA.

[Also described as new by Soudek, 1925b: 14.]

Status as species: Zimmermann, 1935: 35; Kutter, 1968b: 205; Buschinger, 1981: 213.

Junior synonym of *gordiagini*: Buschinger, Winter & Faber, 1984: 336; Bolton, 1995b: 188; Karaman, M.G. 2011b: 48.

microreticulatus. *Temnothorax microreticulatus* Bharti, Gul & Schulz, 2012: 331, figs. 10-15 (w.q.) INDIA (Himachal Pradesh).

Status as species: Bharti, Guénard, *et al.* 2016: 45; Bharti, Gul & Sasi, 2016: 752 (in key).

mimeuri. *Leptothorax mimeuri* Cagniant, in Cagniant & Espadaler, 1997: 270, fig. 6 (w.) MOROCCO.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 183.

minotaurosi. *Temnothorax minotaurosi* Salata, Borowiec & Trichas, 2018: 785, figs. 46-50 (w.) GREECE (Crete I.)

Status as species: Salata & Borowiec, 2018c: 49.

minozzii. *Leptothorax minozzii* Santschi, 1922a: 68.

Replacement name for *Leptothorax silvestrii* Menozzi, 1921: 27. [Junior secondary homonym of *Tetramorium silvestrii* Santschi, 1911d: 6.]

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Baroni Urbani, 1971c: 116; Bolton, 1995b: 241; Poldi, *et al.* 1995: 5; Bolton, 2003: 271; Borowiec, L. 2014: 183.

minutissimus. *Leptothorax minutissimus* Smith, M.R. 1942a: 59, pl. 6 (q.) U.S.A. (District of Columbia).

Buschinger & Linksvayer, 2004: 71 (m.).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 818;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Creighton, 1950a: 265; Smith, M.R. 1951a: 818; Kutter, 1968b: 204; Smith, D.R. 1979: 1393; Buschinger, 1981: 213; Mackay, 2000: 373 (redescription); Bolton, 2003: 271; Buschinger & Linksvayer, 2004: 68; Coovett, 2005: 74.

mirabilis. *Leptothorax mirabilis* Espadaler & Cagniant, 1996: 332, figs. 1-4 (w.q.m.) MOROCCO.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Cagniant & Espadaler, 1997: 270; Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 183.

miserabilis. *Leptothorax (Temnothorax) miserabilis* Santschi, 1918a: 32, fig. B (w.) TUNISIA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Emery, 1924d: 259; Bolton, 1995b: 241; Bolton, 2003: 271; Borowiec, L. 2014: 183.

mitsukoae. *Temnothorax mitsukoae* Terayama & Yamane, 2013: 33, figs. 1-6 (w.q.) JAPAN.

mixtus. *Leptothorax buchetti* var. *mixtus* Santschi, 1929e: 151 (w.) MOROCCO.

Subspecies of *buchetti*: Bolton, 1995b: 241.

mongolicus. *Leptothorax serviculus* subsp. *mongolicus* Pisarski, 1969b: 299, figs. 5-10 (w.) MONGOLIA.

[*Leptothorax servicus* subsp. *mongolicus* Pisarski, 1969a: 229. *Nomen nudum.*]

Radchenko, 1995c: 18 (q.m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of servicus: Dlussky & Pisarski, 1970: 86; Pisarski & Krzysztofiak, 1981: 158.

Status as species: Radchenko, 1994b: 111 (in key); Radchenko, 1994d: 156 (in key); Bolton, 1995b: 241; Radchenko, 1995c: 18; Bolton, 2003: 271; Radchenko, 2004: 125; Radchenko, 2005b: 151; Zhou, *et al.* 2010: 10 (in key); Guénard & Dunn, 2012: 55.

monjauzei. *Leptothorax monjauzei* Cagniant, 1968b: 83, figs. (w.q.m.) ALGERIA.

[*Leptothorax monjauzei* Cagniant, 1968a: 144. *Nomen nudum.*]

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Cagniant, 1970a: 427; Bolton, 1995b: 241; Bolton, 2003: 271; Borowiec, L. 2014: 183.

monticola. *Leptothorax gazella* var. *monticola* Santschi, 1923f: 330 (w.) TUNISIA.

Subspecies of *gazella*: Bolton, 1995b: 241.

Junior synonym of *algiricus*: Cagniant & Espadaler, 1997: 278; Galkowski & Cagniant, 2017: 189.

mordax. *Leptothorax (Temnothorax) mordax* Santschi, 1919e: 242 (q.) SPAIN.

Status as species: Ceballos, 1956: 306.

Junior synonym of *recedens*: Dlussky & Soyunov, 1988: 31; Bolton, 1995b: 241; Radchenko, 2016: 226; Salata, Borowiec & Trichas, 2018: 793.

morea. *Temnothorax morea* Csösz, Salata & Borowiec, 2018: 115, figs. 5, 8, 11, 14, 18, 19, 24, 25, 29 (w.q.) GREECE, CROATIA, TURKEY.

Status as species: Salata & Borowiec, 2018c: 50.

morongo. *Temnothorax morongo* Snelling, R.R. *et al.* 2014: 50, figs. 9, 19, 24-26 (w.) MEXICO (Baja California, Baja California Sur), U.S.A. (California).

mortoni. *Macromischa mortoni* Aguayo, 1937: 235, fig. 1 (w.) CUBA.

Combination in *Leptothorax (Macromischa)*: Baroni Urbani, 1978b: 462; combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Kempf, 1972a: 137; Alayo, 1974: 17 (in key); Baroni Urbani, 1978b: 462 (redescription); Brandão, 1991: 352; Bolton, 1995b: 241; Fontenla Rizo, 2001: 16 (in key); Bolton, 2003: 271.

mpala. *Temnothorax mpala* Prebus, 2015: 41, figs. 1, 2a, 2c, 3b, 3d, 9-11 (w.q.m.) KENYA.

muellerianus. *Leptothorax (Temnothorax) muellerianus* Finzi, 1922: 118, fig. 1 (w.) ITALY.

Combination in *Chalepoxenus*: Müller, 1923b: 98;

combination in *Temnothorax*: Ward, *et al.* 2015: 75.

Status as species: Müller, 1923a: 71; Müller, 1923b: 98; Finzi, 1924b: 123; Kutter, 1968b: 205; Baroni Urbani, 1971c: 129; Kutter, 1973d: 276; Agosti & Collingwood, 1987a: 56; Agosti & Collingwood, 1987b: 266 (in key); Buschinger, Erhardt, Fischer & Ofer, 1988: 393; Mei, 1992b: 152; Bolton, 1995b: 145; Poldi, *et al.* 1995: 5; Espadaler, 1997b: 29; Collingwood & Prince, 1998: 18; Schulz, A. & Sanetra, 2002: 163; Tinaut, Ruano & Martinez, 2005: 460; Bračko, 2006: 135; Petrov, 2006: 85 (in key); Bračko, 2007: 17; Casevitz-Weulersse & Galkowski, 2009: 487; Lapeva-Gjonova, *et al.* 2010: 26; Legakis, 2011: 16; Borowiec, L. & Salata, 2012: 488; Kiran & Karaman, 2012: 18; Borowiec, L. & Salata, 2013: 352; Borowiec, L. 2014: 63; Salata & Borowiec, 2015c:

147 (in key); Lebas, *et al.* 2016: 268; Salata & Borowiec, 2018c: 44; Salata, Borowiec & Trichas, 2018: 788.

Senior synonym of gribodoi: Kutter, 1973d: 276; Buschinger, Erhardt, Fischer & Ofer, 1988: 393; Mei, 1992b: 152; Bolton, 1995b: 145; Casevitz-Weulersse & Galkowsky, 2009: 487; Salata, Borowiec & Trichas, 2018: 788; Seifert, 2018: 224.

Senior synonym of insubricus: Buschinger, Erhardt, Fischer & Ofer, 1988: 398; Mei, 1992b: 152; Bolton, 1995b: 145; Salata, Borowiec & Trichas, 2018: 788.

Senior synonym of siciliensis: Buschinger, Erhardt, Fischer & Ofer, 1988: 398; Mei, 1992b: 152; Bolton, 1995b: 145; Salata, Borowiec & Trichas, 2018: 788.

mulleri. *Leptothorax mulleri* Santschi, 1926f: 293.

Unnecessary replacement name for *sordidulus* Müller, 1923b: 96.

[Misspelled as *sordidus* by Santschi, 1926f: 293.]

Junior synonym of *sordidulus*: Bolton, 1995b: 241; Seifert, 2006: 8.

mutabilis. *Croesomyrmex bermudezi* var. *mutabilis* Wheeler, W.M. 1931b: 27 (w.) CUBA.

Combination in *Macromischa (Croesomyrmex)*: Wheeler, W.M. 1937b: 465.

Subspecies of *bermudezi*: Wheeler, W.M. 1937b: 465; Kempf, 1972a: 136; Alayo, 1974: 39.

Junior synonym of *bermudezi*: Baroni Urbani, 1978b: 429; Brandão, 1991: 351; Bolton, 1995b: 241; Fontenla Rizo, 1997a: 49.

mutica. *Macromischa isabellae* subsp. *mutica* Smith, M.R. 1937: 847 (w.) PUERTO RICO.

Combination in *Leptothorax (Macromischa)*: Baroni Urbani, 1978b: 464.

Subspecies of *isabellae*: Wheeler, W.M. 1937b: 464; Kempf, 1972a: 137.

Status as species: Baroni Urbani, 1978b: 464 (redescription).

Junior synonym of *isabellae*: Snelling, R.R. 1986: 155; Brandão, 1991: 352; Bolton, 1995b: 241.

myersi. *Macromischa myersi* Wheeler, W.M. 1931b: 20 (w.) CUBA.

Combination in *Leptothorax (Macromischa)*: Baroni Urbani, 1978b: 465;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Wheeler, W.M. 1937b: 464; Kempf, 1972a: 137; Alayo, 1974: 16 (in key); Baroni Urbani, 1978b: 465 (redescription); Brandão, 1991: 352; Fontenla Rizo, 1993: 5; Bolton, 1995b: 241; Fontenla Rizo, 2001: 16 (in key); Bolton, 2003: 271.

myrmiciformis. *Temnothorax myrmiciformis* Snelling, R.R. *et al.* 2014: 52, figs. 10, 19, 24-26 (w.) U.S.A. (California), MEXICO (Baja California).

nadigi. *Leptothorax nadigi* Kutter, 1925: 409, figs. (w.q.) SWITZERLAND.

Espadaler, 1984: 136 (m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Stitz, 1939: 178; Bernard, 1967: 215 (redescription); Kutter, 1968a: 60; Kutter, 1977c: 132; Espadaler, 1984: 136; Agosti & Collingwood, 1987b: 275 (in key); Bolton, 1995b: 241; Espadaler, 1997b: 30; Czechowski, *et al.* 2002: 55; Bolton, 2003: 271; Petrov, 2006: 98 (in key); Werner & Wiezik, 2007: 150; Gratiashvili & Barjadze, 2008: 142; Casevitz-Weulersse & Galkowski, 2009: 495; Lapeva-Gjonova, *et al.* 2010: 23; Paknia, *et al.* 2010: 35; Czechowski, *et al.* 2012: 157; Kiran & Karaman, 2012: 26; Borowiec, L. 2014: 183; Bračko, *et al.* 2014: 16; Radchenko, Yusupov & Fedoseeva, 2015: 163; Lebas, *et al.* 2016: 362; Seifert, 2018: 205.

Senior synonym of caucasicus: Schulz, A. in Czechowski, *et al.* 2002: 55; Gratiashvili & Barjadze, 2008: 142; Czechowski, *et al.* 2012: 157.

naeviventris. *Leptocephalus naeviventris* Santschi, 1910b: 62 (w.q.m.) TUNISIA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Emery, 1924d: 255; Santschi, 1929e: 153; Bolton, 1995b: 241; Bolton, 2003: 271; Borowiec, L. 2014: 183 (see note in bibliography); Catarineu, *et al.* 2017: 143 (in key).

Current subspecies: nominal plus *kefensis*.

narinicus. *Leptocephalus narinicus* Tarbinsky, 1976: 93, figs. 151-153, 181-183, 187 (w.q.) KYRGYZSTAN.

Junior synonym of *arpini*: Radchenko, 1994d: 150 (in key); Bolton, 1995b: 241; Radchenko, 1995d: 10; Schultz, R. *et al.* 2006: 203.

nassonovi. *Leptocephalus nassanowi* Ruzsky, 1895: 26 (w.) RUSSIA (Simbirsk & Orenburg Region).

[Also described as new by Ruzsky, 1896: 72.]

[Justified emendation of spelling to *nassonovi*: Ruzsky, 1896: 72.]

Kupyanskaya, 1990: 143 (q.m.).

Combination in *L. (Leptocephalus)*: Karavaiev, 1916: 498;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Ruzsky, 1902a: 234; Ruzsky, 1903b: 313; Ruzsky, 1905b: 579; Karavaiev, 1916: 498; Ruzsky, 1916: 8; Emery, 1924d: 255; Ruzsky, 1925b: 45; Arnol'di, 1933b: 598 (in key); Karavaiev, 1934: 140 (redescription); Ruzsky, 1936: 95; Ruzsky, 1946: 70; Arnol'di, 1971: 1825 (in key); Tarbinsky, 1976: 94 (redescription); Collingwood, 1976: 303; Arnol'di & Dlussky, 1978: 543 (in key); Collingwood, 1981: 27; Radchenko, 1994b: 111 (in key); Radchenko, 1994d: 155 (in key); Bolton, 1995b: 241; Radchenko, 1995d: 9; Bolton, 2003: 271; Lyu & Cho, 2003b: 272; Radchenko, 2004: 126; Radchenko, 2005b: 151; Schultz, R. *et al.* 2006: 203; Zryannin & Zryannina, 2007: 232; Zhou, *et al.* 2010: 11 (in key); Guénard & Dunn, 2012: 55; Borowiec, L. 2014: 184; Radchenko, 2016: 224.

Senior synonym of *firssovi*: Kupyanskaya, 1990: 143; Bolton, 1995b: 241; Radchenko, 2004: 126; Radchenko, 1995d: 9; Radchenko, 2005b: 151; Radchenko, 2016: 224.

Senior synonym of *galeatus*: Radchenko, 2004: 126; Radchenko, 2005b: 151; Radchenko, 2016: 224.

Senior synonym of *subnudus*: Radchenko, 1995d: 9; Radchenko, 2004: 126; Radchenko, 2005b: 151; Radchenko, 2016: 224.

natenzoni. *Macromischa (Croesomyrmex) aguayoi* subsp. *natenzoni* Aguayo, 1931: 179 (w.) CUBA.

Subspecies of *aguayoi*: Wheeler, W.M. 1937b: 465; Kempf, 1972a: 135.

Status as species: Alayo, 1974: 15 (in key).

Junior synonym of *aguayoi*: Baroni Urbani, 1978b: 409; Brandão, 1991: 351; Bolton, 1995b: 241.

Junior synonym of *gundlachi*: Fontenla Rizo, 1997a: 50.

neminan. *Leptocephalus neminan* Espadaler, in Cagniant & Espadaler, 1997: 280, fig. 30 (w.) MOROCCO.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 184.

neomexicanus. *Leptocephalus neomexicanus* Wheeler, W.M. 1903c: 248, pl. 12, fig. 18 (w.) U.S.A. (New Mexico).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 818;
combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of *tricarinatus*: Creighton, 1950a: 273; Smith, M.R. 1952b: 100; Cole, 1953d: 28; Cole, 1954d: 240; Smith, M.R. 1958c: 133; Smith, M.R. 1967: 359; Hunt & Snelling, 1975: 22; Smith, D.R. 1979: 1395; Bolton, 1995b: 241.

Status as species: Wheeler, W.M. 1906d: 341; Wheeler, W.M. 1910g: 567; Wheeler, W.M. 1917a: 507; Emery, 1924d: 258; Cole, 1937b: 136; Smith, M.R. 1951a: 818; Mackay, 2000: 374 (redescription); Mackay & Mackay, 2002: 130; Bolton, 2003: 271; Ward, 2005: 68; Snelling, R.R. et al. 2014: 55.

***nevadensis*.** *Leptothorax nevadensis* Wheeler, W.M. 1903c: 252, pl. 12, fig. 20 (w.q.m.) U.S.A. (Nevada).

Wheeler, G.C. & Wheeler, J. 1973b: 71 (l.).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 818;
combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Wheeler, W.M. 1910g: 567; Wheeler, W.M. 1917a: 508; Emery, 1924d: 258; Creighton, 1950a: 266; Smith, M.R. 1951a: 818; Smith, M.R. 1958c: 132; Yensen, et al. 1977: 183; Wheeler, G.C. & Wheeler, J. 1978: 392; Smith, D.R. 1979: 1393; Allred, 1982: 484; Wheeler, G.C. & Wheeler, J. 1986g: 53; Blacker, 1992: 7; Bolton, 1995b: 241; Mackay, 2000: 376 (redescription); Mackay & Mackay, 2002: 132; Bolton, 2003: 271; Ward, 2005: 16; Snelling, R.R. et al. 2014: 55.

Senior synonym of *eldoradensis*: Mackay, 2000: 376; Ward, 2005: 16; Snelling, R.R. et al. 2014: 56.

Senior synonym of *lindae*: Ward, 2005: 16; Snelling, R.R. et al. 2014: 56.

Senior synonym of *maryanae*: Ward, 2005: 17; Snelling, R.R. et al. 2014: 56.

Senior synonym of *melanderi*: Mackay, 2000: 376; Ward, 2005: 16; Snelling, R.R. et al. 2014: 56.

***niger*.** *Leptothorax tuberum* r. *niger* Forel, 1894d: 42 (w.) FRANCE.

Forel, 1913h: 359 (q.); Santschi, 1927a: 58 (q.); Kutter, 1927: 100 (m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Forel, 1913h: 359; Emery, 1916b: 173; Bondroit, 1918: 134; Emery, 1924d: 255; Santschi, 1925g: 346; Donisthorpe, 1926a: 8; Kutter, 1927: 100; Santschi, 1927a: 58; Santschi, 1931a: 7; Grandi, 1935: 101; Bernard, 1956a: 162; Ceballos, 1956: 306; Baroni Urbani, 1964b: 46; Bernard, 1967: 206 (redescription); Baroni Urbani, 1968b: 458; Collingwood & Yarrow, 1969: 70; Baroni Urbani, 1971c: 117; Collingwood, 1978: 84 (in key); Espadaler, 1981: 80; Bolton, 1995b: 241; Poldi, et al. 1995: 5; Espadaler, 1997b: 30; Bolton, 2003: 271; Casevitz-Weulersse & Galkowski, 2009: 495; Vonshak, et al. 2009: 44; Legakis, 2011: 18; Borowiec, L. & Salata, 2012: 542; Borowiec, L. 2014: 184; Galkowski & Lebas, 2016: 85 (in key); Lebas, et al. 2016: 364.

Senior synonym of *glaber*: Espadaler, 1981: 80; Bolton, 1995b: 241.

***nigra*.** *Macromischa (Croesomyrmex) lugens* var. *nigra* Santschi, 1931c: 273, fig. 8 (w.) CUBA.
[Unresolved junior secondary homonym of *Leptothorax tuberum niger* Forel, 1894d: 42 (Bolton, 1995b: 241).]

Subspecies of *lugens*: Alayo, 1974: 36.

Junior synonym of *lugens*: Borgmeier, 1952: 109; Kempf, 1972a: 137.

Junior synonym of *versicolor*: Baroni Urbani, 1978b: 523; Brandão, 1991: 353; Bolton, 1995b: 246.

nigricans. *Leptothonax (Macromischa) nigricans* Baroni Urbani, 1978b: 467.

Replacement name for *Macromischa melanocephala* Wheeler, W.M. 1931b: 15. [Junior secondary homonym of *Leptothonax melanocephalus* Emery, 1870: 197.]
Combination in *Temnothonax*: Bolton, 2003: 271.

Status as species: Brandão, 1991: 353; Bolton, 1995b: 241; Bolton, 2003: 271.

nigriceps. *Leptothonax (Leptothonax) tuberum* var. *nigriceps* Karavaiev, 1930b: 146
(w.q.) SWEDEN (Gotland I., Oland I.).

[Also described as new by Karavaiev, 1931e: 212.]

Subspecies of *tuberum*: Holgersen, 1940: 183; Holgersen, 1943b: 172 (in key);
Holgersen, 1944: 171; Bolton, 1995b: 241.

Junior synonym of *tuberum*: Collingwood, 1971: 161; Radchenko, 1995c: 14;
Radchenko, 2016: 229.

nigriceps. *Leptothonax nigriceps* Mayr, 1855: 441 (w.) AUSTRIA.

Forel, 1874: 87 (q.); Bondroit, 1920b: 303 (q.m.); Finzi, 1939: 90 (m.); Hauschteck,
1962: 219 (k.).

Combination in *Temnothonax*: Bolton, 2003: 271.

Junior synonym of *affinis*: Mayr, 1861: 59 (in key); Roger, 1863b: 26; Mayr, 1863: 426;
André, 1874: 203 (in list).

Junior synonym of *tuberum*: Radchenko, 1995c: 14.

As unavailable (infrasubspecific) name: Emery & Forel, 1879: 458; Forel, 1915d: 23 (in
key); Emery, 1916b: 174; Emery, 1924d: 256; Stärcke, 1926: 94 (in key).

Subspecies of *tuberum*: Forel, 1874: 85 (in key); André, 1883a: 298; Dalla Torre, 1893:
128; Ruzsky, 1896: 72; Ruzsky, 1902d: 21; Ruzsky, 1905b: 585; Bondroit, 1910: 497;
Santschi, 1910e: 649; Stitz, 1914: 63; Escherich, 1917: 328 (in key); Nadig, 1918: 339;
Soudek, 1922: 54; Ruzsky, 1925b: 45; Menozzi, 1925d: 28; Gösswald, 1932: 90; Grandi,
1935: 101; Ruzsky, 1936: 93.

Status as species: Smith, F. 1858b: 119; Wasmann, 1906: 120 (in key); Bondroit, 1912:
351; Bondroit, 1918: 125; Bondroit, 1920a: 154; Bondroit, 1920b: 303; Müller, 1923b:
93; Finzi, 1924b: 122; Finzi, 1928b: 129; Zimmermann, 1935: 33; Finzi, 1939b: 88
(redescription); Novák, in Novák & Sadil, 1941: 92 (in key); Novák, in Kratochvíl, *et al.*
1944: 121; van Boven, 1947: 179 (in key); Bernard, 1956a: 162; Bernard, 1967: 207
(redescription); Kutter, 1968a: 60; Baroni Urbani, 1971c: 118; Pisarski, 1975: 20; Kutter,
1977c: 132; van Boven, 1977: 105; Arnol'di & Dlussky, 1978: 542 (in key); Agosti &
Collingwood, 1987a: 55; Agosti & Collingwood, 1987b: 276 (in key); Douwes & Stille,
1991: 173; Bolton, 1995b: 241; Poldi, *et al.* 1995: 5; Espadaler, 1997b: 30; Csösz, 2001:
100; Czechowski, *et al.* 2002: 47; Bolton, 2003: 271; Bračko, 2006: 141; Markó, Sipos,
et al. 2006: 70; Petrov, 2006: 98 (in key); Bračko, 2007: 18; Seifert, 2007: 234; Werner
& Wiezik, 2007: 141; Gratiashvili & Barjadze, 2008: 143; Casevitz-Weulersse &
Galkowski, 2009: 495; Lapeva-Gjonova, *et al.* 2010: 23; Boer, 2010: 51; Csösz, *et al.*
2011: 57; Karaman, M.G. 2011b: 31; Legakis, 2011: 18; Borowiec, L. & Salata, 2012:
543; Kiran & Karaman, 2012: 26; Borowiec, L. & Salata, 2013: 373; Czechowski, *et al.*
2012: 143; Plateaux & Cagniant, 2013: 429; Salata & Borowiec, 2013: 407; Borowiec, L.
2014: 184; Lebas, *et al.* 2016: 376; Salata & Borowiec, 2018c: 50; Seifert, 2018: 208.

Senior synonym of *tuberonigriceps*: Plateaux & Cagniant, 2013: 429.

nigricipoides Forel, 1874 (unavailable name); see under **LEPTOTHORAX**.

nigripes. *Macromischa (Croesomyrmex) iris* var. *nigripes* Santschi, 1930e: 78 (w.) CUBA.

Subspecies of *iris*: Alayo, 1974: 35.

Junior synonym of *iris*: Wheeler, W.M. 1931b: 24; Kempf, 1972a: 137; Baroni Urbani, 1978b: 454; Brandão, 1991: 352; Bolton, 1995b: 241.

nigritus. *Leptothorax nigrita* Emery, 1878b: 51 (footnote) fig. (w.) ALGERIA.

Forel, 1890a: lxxv (q.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: André, 1881b: 72; André, 1883a: 301 (in key); Forel, 1890a: lxxv; Saunders, E. 1890: 204; Emery, 1891b: 5 (in key); Dalla Torre, 1893: 125; Ruzsky, 1902d: 25; Ruzsky, 1905b: 604; Santschi, 1907: 333; Karavaiev, 1912a: 3; Emery, 1924d: 255; Santschi, 1929c: 103; Menozzi, 1933b: 68 (in key); Ceballos, 1956: 306; Cagniant, 1966b: 279; Cagniant, 1968a: 144; Collingwood & Yarrow, 1969: 71; Cagniant, 1970a: 419; Collingwood, 1978: 84 (in key); Agosti & Collingwood, 1987a: 55; Agosti & Collingwood, 1987b: 274 (in key); Bolton, 1995b: 241; Bolton, 2003: 271; Petrov, 2006: 96 (in key); Gratiashvili & Barjadze, 2008: 143; Legakis, 2011: 19; Borowiec, L. 2014: 184 (see note in bibliography).

Current subspecies: nominal plus *rupestris*, *saharensis*, *salambo*.

nigroscutellata Costa, 1884 (*nomen nudum*); see under **LEPTOTHORAX**.

nikitae. *Leptothorax nikitae* Arnol'di, 1977a: 202 (w.) RUSSIA (Crimea).

Status as species: Arnol'di & Dlussky, 1978: 543 (in key); Arakelian, 1994: 55.

Junior synonym of *knipovitschi*: Radchenko, 1994d: 156 (in key); Bolton, 1995b: 242; Radchenko, 1995c: 18; Radchenko, 2016: 222.

Junior synonym of *interruptus*: Csösz, Salata & Borowiec, 2018: 109.

nipensis. *Leptothorax nipensis* Fontenla Rizo, 1998: 67, fig. 6 (w.) CUBA.

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Fontenla Rizo, 2001: 16 (in key); Bolton, 2003: 271.

nitens. *Leptothorax* (*Leptothorax*) *nitens* Emery, 1895c: 322, pl. 8, fig. 16 (w.) U.S.A. (Utah).

Cole, 1958c: 536 (q.m.); Wheeler, G.C. & Wheeler, J. 1973b: 71 (l.).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 818;

combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Wheeler, W.M. 1903c: 244; Wheeler, W.M. 1906d: 341; Wheeler, W.M. 1910g: 567; Wheeler, W.M. 1917a: 507; Emery, 1924d: 258; Cole, 1937b: 136; Creighton, 1950a: 265; Smith, M.R. 1951a: 818; Cole, 1958c: 536; Smith, M.R. 1958c: 132; Smith, M.R. 1967: 359; Hunt & Snelling, 1975: 22; Yensen, *et al.* 1977: 183; Wheeler, G.C. & Wheeler, J. 1978: 392; Smith, D.R. 1979: 1394; Allred, 1982: 484; Wheeler, G.C. & Wheeler, J. 1986g: 53; Mackay, Lowrie, *et al.* 1988: 90; Bolton, 1995b: 242; Mackay, 2000: 379 (redescription); Mackay & Mackay, 2002: 133; Bolton, 2003: 271; Ward, 2005: 17; Snelling, R.R. *et al.* 2014: 56.

Senior synonym of mariposa: Creighton, 1950a: 265; Ward, 2005: 17; Snelling, R.R. *et al.* 2014: 56.

Senior synonym of melinus: Ward, 2005: 17; Snelling, R.R. *et al.* 2014: 56.

nitidiceps. *Leptothorax interruptus* var. *nitidiceps* Emery, 1891b: 6.

[First available use of *Leptothorax tuberum* r. *interruptus* var. *nitidiceps* Forel, 1890a: lxxiv (w.) ALGERIA; unavailable (infrasubspecific) name (Agosti & Collingwood, 1987a: 61).]

As unavailable (infrasubspecific) name: Emery, 1898c: 134; Emery, 1924d: 257; Finzi, 1930d: 315.

Subspecies of *tuberum*: Cori & Finzi, 1931: 239; Zimmermann, 1935: 33.

Subspecies of *spinosus*: Cagniant, 1970b: 207 (in text).

Subspecies of *interruptus*: Dalla Torre, 1893: 124; Baroni Urbani, 1971c: 110; Bolton, 1995b: 242; Legakis, 2011: 19.

Status as species: Borowiec, L. & Salata, 2012: 543; Borowiec, L. 2014: 184.

nitidulus. *Leptothorax exilis* var. *nitidulus* Santschi, 1923f: 331.

[First available use of *Leptothorax tuberum* r. *obscurior* var. *nitidulus* Forel, 1894d: 39 (w.q.) ALGERIA; unavailable (infrasubspecific) name.]

As unavailable (infrasubspecific) name: Emery, 1924d: 254 (material referred to *exilis*); Santschi, 1936c: 204.

Junior synonym of *exilis*: Emery, 1914d: 157 (footnote); Baroni Urbani, 1971d: 1041; Bolton, 1995b: 242; Salata, Borowiec & Trichas, 2018: 778.

nivalis Forel, 1909 (unavailable name); see under **LEPTOTHORAX**.

***nivarianus*.** *Leptothorax nivarianus* Santschi, 1925g: 343 (w.q.) SPAIN (Canary Is).

Status as species: Wheeler, W.M. 1927g: 110; Wellenius, 1955: 10; Báez & Ortega, 1978: 189.

Subspecies of *gracilicornis*: Barquin Diez, 1981: 283; Hohmann, *et al.* 1993: 151; Bolton, 1995b: 242.

Senior synonym of *guancha*: Barquin Diez, 1981: 283; Hohmann, *et al.* 1993: 151; Bolton, 1995b: 242.

***nordmeyeri*.** *Leptothorax nordmeyeri* Schulz, A. 1997: 305, figs. 1-4 (w.) INDIA (Goa).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Bolton, 2003: 271; Bharti, Gul & Schulz, 2012: 335 (in key); Bharti, Guénard, *et al.* 2016: 45; Bharti, Gul & Sasi, 2016: 752 (in key).

***normandi*.** *Leptothorax normandi* Santschi, 1912f: 173, fig. 3 (w.) TUNISIA.

Santschi, 1929e: 155 (q.).

Combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Emery, 1924d: 255; Santschi, 1929e: 155; Cagniant, 1964: 89; Cagniant, 1970a: 428; Bolton, 1995b: 242; Bolton, 2003: 271; Borowiec, L. 2014: 184.

***numidicus*.** *Leptothorax annibalalis* st. *numidicus* Santschi, 1929e: 151 (w.q.) TUNISIA.

Subspecies of *annibalalis*: Bolton, 1995b: 242.

***nuwuvi*.** *Temnothorax nuwuvi* Snelling, R.R. *et al.* 2014: 57, figs. 11-12, 19, 23-24 (w.m.) U.S.A. (Nevada).

***nylanderi*.** *Myrmica nylanderi* Foerster, 1850a: 53 (m.) GERMANY.

Mayr, 1855: 447 (w.q.).

Combination in *Leptothorax*: Mayr, 1855: 447;

combination in *Temnothorax*: Bolton, 2003: 271.

Subspecies of *tuberum*: Forel, 1874: 84 (in key); Emery & Forel, 1879: 459; André, 1883a: 300; Emery, 1884a: 379; Forel, 1889: 257; Forel, 1890a: lxxv; Emery, 1891b: 6; Forel, 1892i: 314; Emery, in Dalla Torre, 1893: 127 (footnote); Saunders, E. 1896: 38; Ruzsky, 1905b: 597; Bondroit, 1910: 496; Santschi, 1910e: 649; Crawley, 1914a: 91 (in key); Emery, 1914d: 157; Escherich, 1917: 328 (in key); Soudek, 1922: 51; Kutter, 1927: 100; Gösswald, 1932: 91.

Status as species: Schenck, 1852: 135; Mayr, 1855: 447 (redescription); Smith, F. 1858a: 280; Smith, F. 1858b: 120; Mayr, 1861: 59 (in key); Roger, 1863b: 26; Mayr, 1863: 427; Emery, 1869b: 15; Smith, F. 1871b: 3; André, 1874: 190 (in key); Emery,

1878b: 50; Emery, 1880: 392; Saunders, E. 1880: 219; White, W.F. 1884: 265; Nasonov, 1889: 32; Dalla Torre, 1893: 125; Ruzsky, 1902d: 23; Bondroit, 1911: 12; Forel, 1911d: 334; Stitz, 1914: 64; Forel, 1915d: 22 (in key); Donisthorpe, 1915d: 155; Emery, 1916b: 175; Bondroit, 1918: 122; Menozzi, 1922b: 329; Kulmatycki, 1922: 76; Müller, 1923b: 94; Emery, 1924d: 255; Ruzsky, 1925b: 45; Betrem, 1926: 217; Donisthorpe, 1926a: 8; Karavaiev, 1926f: 69; Stärcke, 1926: 93 (in key); Donisthorpe, 1927b: 173; Karavaiev, 1927a: 292; Karavaiev, 1927c: 266 (in key); Menozzi, 1927b: 91; Lomnicki, 1928: 5; Finzi, 1930d: 315; Soudek, 1931: 9; Arnol'di, 1933b: 598 (in key); Finzi, 1933: 164; Karavaiev, 1934: 137 (redescription); Grandi, 1935: 101; Stitz, 1939: 179; Novák, in Novák & Sadil, 1941: 90 (in key); Novák, in Kratochvíl, *et al.* 1944: 116; van Boven, 1947: 178 (in key); Arnol'di, 1948: 211 (in list); Schmitz, 1950: 15; Consani & Zangheri, 1952: 41; Bernard, 1956a: 164; Ceballos, 1956: 306; Cagniant, 1966b: 279; Bernard, 1967: 214 (redescription); Kutter, 1968a: 60; Collingwood & Yarrow, 1969: 69; Baroni Urbani, 1971c: 118; Collingwood, 1971: 161; Baroni Urbani, 1974: 234; Bolton & Collingwood, 1975: 5 (in key); Pisarski, 1975: 21; van Boven, 1977: 102; Kutter, 1977c: 133; Arnol'di & Dlussky, 1978: 541 (in key); Collingwood, 1978: 84 (in key); Collingwood, 1979: 74; Agosti & Collingwood, 1987a: 55; Agosti & Collingwood, 1987b: 274 (in key); Casevitz-Weulersse, 1990c: 418 (in key); Atanassov & Dlussky, 1992: 139; Arakelian, 1994: 56; Radchenko, 1994d: 153 (in key); Bolton, 1995b: 242; Douwes, 1995: 90; Poldi, *et al.* 1995: 5; Radchenko, 1995d: 3; Seifert, 1995: 4; Espadaler, 1997b: 30; Collingwood & Prince, 1998: 16 (in key); Gallé, *et al.* 1998: 215; Radchenko, 2000: 43; Czechowski, *et al.* 2002: 48; Bolton, 2003: 271; Karaman, M.G. & Karaman, 2003: 42; Petrov, 2006: 97 (in key); Seifert, 2007: 237; Werner & Wiezik, 2007: 149; Gratiashvili & Barjadze, 2008: 143; Casevitz-Weulersse & Galkowski, 2009: 495; Lapeva-Gjonova, *et al.* 2010: 23; Boer, 2010: 52; Legakis, 2011: 19; Czechowski, *et al.* 2012: 146; Kiran & Karaman, 2012: 26; Borowiec, L. 2014: 185 (see note in bibliography); Csösz, Heinze & Mikó, 2015: 40 (redescription); Lebas, *et al.* 2016: 366; Seifert, 2018: 215.

Senior synonym of *cingulata*: Mayr, 1855: 447; Nylander, 1856b: 93; Smith, F. 1858a: 280; Smith, F. 1858b: 120; Mayr, 1861: 59 (in key); Roger, 1863b: 26; Mayr, 1863: 427; Smith, F. 1871b: 3; André, 1874: 203 (in list); Forel, 1874: 102 (in list); Emery & Forel, 1879: 459; Dalla Torre, 1893: 125; Ruzsky, 1905b: 597; Donisthorpe, 1915d: 155; Forel, 1915d: 22 (in key); Emery, 1924d: 255; Donisthorpe, 1927b: 173; Karavaiev, 1934: 137; Ceballos, 1956: 306; Collingwood, 1978: 70; Bolton, 1995b: 242; Casevitz-Weulersse & Galkowski, 2009: 495.

Senior synonym of *nylanderocorticalis*: Kutter, 1977c: 14; Plateaux & Cagniant, 2013: 429.

Senior synonym of *nylanderotuberum*: Radchenko, 1995d: 3.

Current subspecies: nominal plus *nylanderonigriceps*.

nylanderocorticalis. *Leptothorax tuberum* var. *nylanderocorticalis* Forel, 1874: 86 (w.) SWITZERLAND.

Emery, 1916b: 183, 186 (in keys) (w.q., respectively).

Status as species: Bondroit, 1918: 124.

Subspecies of *tuberum*: Dalla Torre, 1893: 128.

Subspecies of *corticalis*: Forel, 1915d: 22 (in key); Emery, 1916b: 175; Soudek, 1922: 55; Emery, 1924d: 254; Stärcke, 1926: 94 (in key); Stitz, 1939: 176; Novák, in Novák & Sadil, 1941: 92 (in key); Baroni Urbani, 1971c: 106; Bolton, 1995b: 242 (error).

Junior synonym of *nylanderi*: Kutter, 1977c: 14; Plateaux & Cagniant, 2013: 429.

nylanderonigriceps. *Leptothorax nylanderi* var. *nylanderonigriceps* Stitz, 1939: 180.

[First available use of *Leptothorax tuberum* subsp. *nylanderi* var. *nylanderonigriceps* Gösswald, 1932: 149 (w.q.) GERMANY; unavailable (infrasubspecific) name.]

Subspecies of nylanderi: Novák, in Novák & Sadil, 1941: 91 (in key); Bolton, 1995b: 242.

nylanderotebessae Forel, 1894 (unavailable name); see under **LEPTOTHORAX**.

nylanderotuberum. *Leptothorax nylanderi* var. *nylanderotuberum* Ruzsky, 1902d: 23 (w.) RUSSIA.

Subspecies of *nylanderi*: Bolton, 1995b: 242.

Junior synonym of *nylanderi*: Radchenko, 1995d: 3.

nylanderounifasciatus Forel, 1874 (*nomen nudum*); see under **LEPTOTHORAX**.

obenbergeri. *Leptothorax unifasciatus* var. *obenbergeri* Sadil, 1939a: 30 (w.q.) SLOVAKIA.

Subspecies of unifasciatus: Novák, in Novák & Sadil, 1941: 93 (in key); Novák, in Kratochvíl, *et al.* 1944: 122; Bolton, 1995b: 242.

obliquicanthus. *Leptothorax (Myrafant) obliquicanthus* Cole, 1953d: 28, figs. 1, 2 (w.) U.S.A. (New Mexico).

Status as species: Cole, 1954d: 240; Smith, M.R. 1958c: 132; Smith, M.R. 1967: 359; Smith, D.R. 1979: 1394; Wheeler, G.C. & Wheeler, J. 1986g: 53; Mackay, Lowrie, *et al.* 1988: 90; Bolton, 1995b: 242; Mackay, 2000: 380 (redescription); Mackay & Mackay, 2002: 134; Bolton, 2003: 271; Snelling, R.R. *et al.* 2014: 81 (in key).

obscurior. *Leptothorax tuberum* var. *obscurior* Dalla Torre, 1893: 128.

[First available use of *Leptothorax tuberum* r. *melanocephalus* var. *obscurior* Forel, 1890a: lxxiv (w.) ALGERIA; unavailable (infrasubspecific) name.]

Cagniant, 1970a: 421 (q.m.).

Combination in *Temnothorax*: Bolton, 2003: 271.

As unavailable (infrasubspecific) name: Emery, 1914d: 157; Emery, 1915a: 251.

Subspecies of tuberum: Emery, 1891b: 5; Forel, 1894d: 38.

Subspecies of exilis: Santschi, 1911a: 12; Emery, 1924d: 254; Santschi, 1929e: 153; Santschi, 1936c: 204; Cagniant, 1968a: 144.

Junior synonym of *exilis*: Baroni Urbani, 1971d: 1041; Bolton, 1995b: 242.

Status as species: Cagniant, 1970a: 421 (redescription); Cagniant & Espadaler, 1997: 272; Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 185.

Senior synonym of retifer: Cagniant & Espadaler, 1997: 272.

obscurior. *Macromischa salvini* var. *obscurior* Forel, 1899c: 57 (w.) PANAMA.

[Unresolved junior secondary homonym of *Leptothorax tuberum obscurior* Dalla Torre, 1893: 128 (Bolton, 1995b: 242).]

Combination in *Leptothorax (Macromischa)*: Baroni Urbani, 1978b: 495.

Subspecies of salvini: Wheeler, W.M. 1908a: 141 (in key); Mann, 1920: 410 (in key); Emery, 1924d: 247; Wheeler, W.M. 1937b: 464; Kempf, 1972a: 138; Baroni Urbani, 1978b: 495 (redescription); Brandão, 1991: 352; Bolton, 1995b: 242.

obturator. *Leptothorax obturator* Wheeler, W.M. 1903c: 249, pl. 12, fig. 19 (w.q.m.) U.S.A. (Texas).

Wheeler, W.M. 1903f: 662 (gynandromorph); Wheeler, G.C. & Wheeler, J. 1955b: 24 (l.).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 818;
combination in *Temnothorax*: Bolton, 2003: 271.

Status as species: Wheeler, W.M. 1910g: 567; Emery, 1924d: 258; Creighton, 1950a: 267; Smith, M.R. 1951a: 818; Smith, M.R. 1958c: 132; Smith, D.R. 1979: 1394; Bolton, 1995b: 242; Mackay, 2000: 382 (redescription); Bolton, 2003: 271.

ocarinae. *Leptothorax (Macromischa) ocarinae* Baroni Urbani, 1978b: 469, figs. 58, 131 (w.) MEXICO (no state data).

[Intercepted at frontier with Arizona, on orchid.]

Combination in *Temnothorax*: Bolton, 2003: 272.

Status as species: Brandão, 1991: 350; Bolton, 1995b: 242; Bolton, 2003: 272.

occidentalis. *Leptothorax nitens* subsp. *occidentalis* Wheeler, W.M. 1903c: 245 (w.) U.S.A. (Washington).

Combination in *L. (Myrafant)*: Smith, M.R. 1951a: 818.

Subspecies of *nitens*: Wheeler, W.M. 1910g: 567; Wheeler, W.M. 1917a: 508; Emery, 1924d: 258; Smith, M.R. 1951a: 818.

Junior synonym of *nitens*: Creighton, 1950a: 265; Cole, 1958c: 536; Smith, M.R. 1958c: 132; Smith, D.R. 1979: 1394; Bolton, 1995b: 242; Mackay, 2000: 379.

Junior synonym of *andrei*: Ward, 2005: 15; Snelling, R.R. et al. 2014: 38.

ocellatus. *Leptothorax (Myrafant) ocellatus* Mackay, 2000: 383, figs. 19, 143-145 (w.) U.S.A. (California).

Combination in *Temnothorax*: Bolton, 2003: 272.

Status as species: Bolton, 2003: 272.

Junior synonym of *andrei*: Ward, 2005: 15; Snelling, R.R. et al. 2014: 38.

opaciabdomin. *Leptothorax opaciabdomin* Chang & He, 2001b: 2, figs. 2, 6, 10 (w.) CHINA (Ningxia).

Combination in *Temnothorax*: Zhou, et al. 2010: 10 (in key).

Status as species: Zhou, et al. 2010: 10 (in key); Guénard & Dunn, 2012: 55.

opaciceps, misspelling, see under *opacipes*.

opacinoda. *Macromischa sallaei* subsp. *opacinoda* Wheeler, W.M. 1931b: 7 (w.) HAITI.

Subspecies of *sallaei*: Wheeler, W.M. 1936b: 200; Wheeler, W.M. 1937b: 464; Kempf, 1972a: 138.

Junior synonym of *sallaei*: Baroni Urbani, 1978b: 490; Brandão, 1991: 352; Bolton, 1995b: 242.

opacipes. *Macromischa pastinifera* var. *opacipes* Wheeler, W.M. 1905b: 96, fig. I (w.) BAHAMAS (Andros I.).

[Misspelled as *opaciceps* by Fontenla Rizo, 1997a: 51.]

Subspecies of *pastinifera*: Wheeler, W.M. 1908a: 142 (in key); Mann, 1920: 409 (in key); Emery, 1924d: 247; Wheeler, W.M. 1937b: 464.

Junior synonym of *pastinifer*: Smith, M.R. 1954c: 6; Kempf, 1972a: 137; Baroni Urbani, 1978b: 470; Brandão, 1991: 352; Bolton, 1995b: 242; Fontenla Rizo, 1997a: 51.

opalina. *Macromischa opalina* Wheeler, W.M. 1937b: 451 (w.) CUBA.

Combination in *Leptothorax (Macromischa)*: Baroni Urbani, 1978b: 470.

Status as species: Baroni Urbani, 1978b: 470 (redescription); Brandão, 1991: 352; Bolton, 1995b: 242.

Junior synonym of *darlingtoni*: Brown, 1959e: 73; Kempf, 1972a: 136; Fontenla Rizo, 1997a: 50.

oraniensis. *Leptocephalus oraniensis* Forel, 1894d: 34 (w.q.) ALGERIA.

Combination in *Temnocephalus*: Bolton, 2003: 271.

Status as species: Emery, 1924d: 255; Cagniant, 1968a: 144; Cagniant, 1970a: 419; Bolton, 1995b: 242; Cagniant & Espadaler, 1997: 269; Bolton, 2003: 271; Cagniant, 2006a: 198; Borowiec, L. 2014: 185.

Senior synonym of *chobauti*: Cagniant & Espadaler, 1997: 269.

Senior synonym of *rusticus*: Cagniant, 1970a: 419; Bolton, 1995b: 242.

Senior synonym of *sergensis*: Cagniant & Espadaler, 1997: 269.

orchidus. *Temnocephalus orchidus* Zhou, et al. 2010: 14, figs. 4-6 (w.) CHINA (Yunnan).

Status as species: Guénard & Dunn, 2012: 55.

ornatipes. *Macromischa bruneri* subsp. *ornatipes* Wheeler, W.M. 1937b: 457 (w.) CUBA.

Subspecies of *bruneri*: Kempf, 1972a: 136; Alayo, 1974: 38.

Junior synonym of *bruneri*: Baroni Urbani, 1978b: 431; Brandão, 1991: 351; Bolton, 1995b: 242.

oxianus. *Leptocephalus tuberum* subsp. *oxianus* Ruzsky, 1905b: 592 (w.) TAJIKISTAN.

Tarbinsky, 1976: 99 (q.).

Combination in *Temnocephalus*: Bolton, 2003: 271.

Subspecies of *tuberum*: Emery, 1924d: 257.

Subspecies of *bulgaricus*: Kuznetsov-Ugamsky, 1927d: 40.

Status as species: Tarbinsky, 1976: 97 (redescription); Radchenko, 1994d: 151 (in key); Bolton, 1995b: 242; Radchenko, 1995a: 27; Bolton, 2003: 271; Schultz, R. et al. 2006: 203.

Senior synonym of *juglandeti*: Radchenko, 1995a: 27; Schultz, R. et al. 2006: 203.

Senior synonym of *talassicus*: Radchenko, 1994d: 151 (in key); Bolton, 1995b: 242; Radchenko, 1995a: 27; Schultz, R. et al. 2006: 203.

oxynodis. *Leptocephalus (Myrafant) oxynodis* Mackay, 2000: 385, figs. 63, 146 (w.) U.S.A. (California).

Combination in *Temnocephalus*: Bolton, 2003: 272.

Status as species: Bolton, 2003: 272; Ward, 2005: 68; Snelling, R.R. et al. 2014: 61.