

The Extreme, Workerless Inquilines of the World.

The inquiline species.

***Tetramorium* Mayr, 1855** (Only a few species in a big genus.) (= ***Teleutomyrmex* Kutter, 1950**, by Ward, Brady, Fisher, Schultz, 2015 ("2014"), the old genus, complete.).

- 01) *Tetramorium inquilinum* Ward, Brady, Fisher, Schultz, 2015 ("2014")
(= *Teleutomyrmex schneideri* Kutter, 1950)
(= *Tetramorium schneideri* (Kutter, 1950), by Ward, Brady, Fisher, Schultz, 2015 ("2014"))
(not *Tetramorium schneideri* Emery, 1898)
(= *Tetramorium inquilinum* Ward, Brady, Fisher, Schultz, 2015 ("2014"), replacement name)
- 02) *Tetramorium kutteri* (Tinaut, 1990)
(= *Teleutomyrmex kutteri* Tinaut, 1990)
(= *Tetramorium kutteri* (Tinaut, 1990), by Ward, Brady, Fisher, Schultz, 2015 ("2014"))
(not *Tetramorium semilaeve* André, 1883 var. *kutteri* Santschi, 1927)
- 03) *Tetramorium seiferti* (Kiran & Karaman, in Kiran, Karaman, Lapeva-Gjonova, Aksoy, 2017)
(= *Teleutomyrmex seiferti* Kiran & Karaman, in Kiran, Karaman, Lapeva-Gjonova, Aksoy, 2017)
(= *Tetramorium seiferti* (Kiran & Karaman, in Kiran, Karaman, Lapeva-Gjonova, Aksoy, 2017), by analogy)
- 04) *Tetramorium buschingeri* (Lapeva-Gjonova, in Kiran, Karaman, Lapeva-Gjonova, Aksoy, 2017)
(= *Teleutomyrmex buschingeri* Lapeva-Gjonova, in Kiran, Karaman, Lapeva-Gjonova, Aksoy, 2017)
(= *Tetramorium buschingeri* (Lapeva-Gjonova, in Kiran, Karaman, Lapeva-Gjonova, Aksoy, 2017), by analogy)

Not yet described species of extreme, workerless inquiline, from the genus ***Tetramorium* Mayr, 1855** (= ***Teleutomyrmex* Kutter, 1950**.).

- 05) The new, undescribed species from *Tetramorium* Mayr, 1855 (= *Teleutomyrmex* Kutter, 1950) from Farab, Turkmenistan... See Dlussky, Soyunov, Zabelin, 1990 ["1989"].

***Tetramorium* Mayr, 1855** (Only a few species in a big genus.) (= ***Anergates* Forel, 1874**, by Ward, Brady, Fisher, Schultz, 2015 ("2014"), the old genus, complete.).

06) *Tetramorium atratulum* (Schenck, 1852)

(= *Myrmica atratula* Schenck, 1852)

[Also described as new by Schenck, 1853b]

(= *Tetramorium atratulum* (Schenck, 1852), by Mayr, 1855)

[= *Tomognathus atratulus* (Schenck, 1852), by Mayr, 1863 following Mayr, 1861, obsolete combination.]

(= *Anergates atratulus* (Schenck, 1852), by Forel, 1874)

(= *Tetramorium atratulum* (Schenck, 1852), by Ward, Brady, Fisher, Schultz, 2015 ("2014"))

07) *Tetramorium friedlandi* (Creighton, 1934)

(= *Anergates friedlandi* Creighton, 1934)

[= *Tetramorium friedlandi* (Creighton, 1934), by analogy]

***Tetramorium* Mayr, 1855** (Only a few species in a big genus.).

08) *Tetramorium microgyna* Santschi, 1918

09) *Tetramorium parasiticum* Bolton, 1980

***Pheidole* Westwood, 1839** (Only a few species in a big genus.).

10) *Pheidole neokohli* Wilson, 1984

(= *Anergatides kohli* Wasmann, 1915)

(= *Pheidole kohli* (Wasmann, 1915), by Wilson, 1984)

(not *Pheidole kohli* Mayr, 1901)

(= *Pheidole neokohli* Wilson, 1984, replacement name)

11) *Pheidole acutidens* (Santschi, 1922)

(= *Bruchomyrma acutidens* Santschi, 1922)

(= *Pheidole acutidens* (Santschi, 1922), by Wilson, 1984)

12) *Pheidole argentina* (Bruch, 1932)

(= *Gallardomyrma argentina* Bruch, 1932)

(= *Pheidole argentina* (Bruch, 1932), by Wilson, 1984)

13) *Pheidole parasitica* Wilson, 1984

Excluded from the extreme, workerless inquilines. Once this species was included in the extreme, workerless inquilines but now it is considered to be a workerless inquiline without extreme reductions, e.g. no pupoid males but normal ones. The decision to exclude it was made by Edward Osborne Wilson in 1984 in a study of the inquilines in the genus ***Pheidole* Westwood, 1839**.

***Pheidole* Westwood, 1839** (Only one species in a big genus.).

14) *Pheidole kusnezovi* Wilson, 2003

(= *Eriopheidole symbiotica* Kusnezov, 1952)

(= *Pheidole symbiotica* (Kusnezov, 1952), by Wilson, 1984)

(not *Pheidole symbiotica* Wasmann, 1909)

(= *Pheidole kusnezovi* Wilson, 2003, replacement name)

Distribution.

01) Europe (Alps, Pyrenees and Northern Spain)

02) Europe (Southern Iberia)

03) Turkey (Anatolia)

04) Europe (Southern Balkans or, more precisely, Bulgaria)

05) Turkmenistan

06) Palearctic region (most important: Europe)

07) North America

08) Southern Africa

09) Southern Africa

10) Central Africa

11) South America

12) South America

13) India

14) South America

The host species.

01), 02), 03), 04), 05), 06), 07), 08) and 09) Certain species of the genus ***Tetramorium* Mayr, 1855.**

01) *T. alpestre* Steiner, Schlick-Steiner & Seifert, 2010 and *T. impurum* (Förster, 1850)
and maybe *T. caespitum* (Linnaeus, 1758)?

02) *T. cf. caespitum* (Linnaeus, 1758)

03) *T. cf. chefketi* Forel, 1911

04) *T. cf. chefketi* Forel, 1911

05) A species from the genus *Tetramorium* Mayr, 1855...

06) *T. impurum* (Förster, 1850), *T. caespitum* (Linnaeus, 1758), *T. immigrans* Santschi, 1927, *T. staercke*i Kratochvíl, in Kratochvíl, Novák, Šnoflák, 1944
and *T. moravicum* [Kratochvíl, in] Novák & Sadil, 1941, *T. diomedaeum* Emery, 1908, *T. chefketi* Forel, 1911

07) *T. immigrans* Santschi, 1927

08) *T. sericeiventris* Emery, 1877 and *T. sepositum* Santschi, 1918

09) *T. avium* Bolton, 1980

10), 11), 12), 13) and 14) Certain species of the genus ***Pheidole* Westwood, 1839.**

10) *P. megacephala* (Fabricius, 1793) subsp. *melancholica* Santschi, 1912

11) *P. strobili* Emery, 1906

12) *P. nitidula* Emery, 1888

13) *P. indica* Mayr, 1879

14) *P. obscurior* Forel, 1886

A remark about synonymy.

Tetramorium friedlandi (Creighton, 1934) is now a synonym from *Tetramorium atratum* (Schenck, 1852), more precisely an introduced form in North America (see also Schär, Talavera, Espadaler, Rana, Andersen, Cover, Vila, 2018.). This synonymy was given by Creighton, 1950. So, the name is *Tetramorium atratum* (Schenck, 1852)...

Synonyms of the host species.

- *T. impurum* (Förster, 1850) (= *Myrmica impura* Förster, 1850)
- *T. caespitum* (Linnaeus, 1758) (= *Formica caespitum* Linnaeus, 1758)
- *T. chefketi* Forel, 1911 (= *T. caespitum* (Linnaeus, 1758) var. *chefketi* Forel, 1911)
- *T. immigrans* Santschi, 1927 (= *T. caespitum* (Linnaeus, 1758) var. *immigrans* Santschi, 1927)
- *T. staercke* Kratochvíl, in Kratochvíl, Novák, Šnoflák, 1944 (= *T. caespitum* (Linnaeus, 1758) subsp. *hungarica* Rösler, 1935 ("1933-34") var. *staercke* Rösler, 1936)
- *T. diomedea* Emery, 1908 (= *T. caespitum* (Linnaeus, 1758) var. *diomedea* Emery, 1908)
- *T. sepositum* Santschi, 1918 (= *T. gladstonei* Forel, 1913 var. *seposita* Santschi, 1918)
- *P. megacephala* (Fabricius, 1793) (= *Formica megecephala* Fabricius, 1793) (= *Formica edax* Forskål, 1775, a nomen oblitum under Art. 23.9 of ICZN (1999))
- *P. megacephala* (Fabricius, 1793) subsp. *melancholica* Santschi, 1912 was originally described as *P. punctulata* Mayr, 1866 st. *melancholica* Santschi, 1912
- *P. strobili* Emery, 1906 (= *P. perversa* Forel, 1908 subsp. *richter* Forel, 1909, or, in 1922, at the moment the extreme, workerless inquiline species was described, = *P. strobili* Emery, 1906 subsp. *richter* Forel, 1909.)
- *P. nitidula* Emery, 1888 (= *P. triconstricta* Forel, 1886 var. *nitidula* Emery, 1888)
- *P. obscurior* Forel, 1886 (= *P. susannae* Forel, 1886 r. *obscurior* Forel, 1886)

And then...

..., if you follow the line further that Ward, Brady, Fisher, Schultz, 2015 ("2014") outlined, the first 9 extreme, workerless inquilines become a few species in the genus ***Strongylognathus* Mayr, 1853**.

01) *Strongylognathus inquilinum* (Ward, Brady, Fisher, Schultz, 2015 ("2014"))

(= *Strongylognathus schneideri* (Kutter, 1950))

02) *Strongylognathus kutteri* (Tinaut, 1990)

03) *Strongylognathus seiferti* (Kiran & Karaman, in Kiran, et al. 2017)

04) *Strongylognathus buschingeri* (Lapeva-Gjonova, in Kiran, et al. 2017)

06) *Strongylognathus atratulus* (Schenck, 1852)

07) (= *Strongylognathus friedlandi* (Creighton, 1934))

08) *Strongylognathus microgyna* (Santschi, 1918)

09) *Strongylognathus parasiticum* (Bolton, 1980)

If you followed the systematics of ants in 2014-2015, you noticed that all the species of *Teleutomyrmex* Kutter, 1950 and *Anergates* Forel, 1874 became *Tetramorium* Mayr, 1855. But normally, they should have the name *Strongylognathus* Mayr, 1853. No, they, Ward, Brady, Fisher, Schultz, 2015 ("2014"), didn't like that! So, until the ICZN would say different, they kept *Tetramorium* Mayr, 1855.

And now you find under a few species, described in the "normal" genus "*Teleutomyrmex* Kutter, 1950", this:

[Note: Kiran, et al. 2017: 146, retain the paraphyletic genus *Teleutomyrmex*.]

But they keep themselves a paraphyletic genus, nl. *Tetramorium* Mayr, 1855!. So it should be *Strongylognathus* Mayr, 1853...