

Last updated: 16 May 2025

## EREMIASPHECIUM

*Eremiasphecium* Kohl, 1897a:67. Type species: *Eremiasphecium schmiedeknechtii* Kohl, 1897, by monotypy.

*Shestakovia* Gussakovskij, 1930a:275. Type species: *Shestakovia digitata* Gussakovskij, 1930, by original designation. Synonymized with *Eremiasphecium* by Pate, 1935:249.

*Mongolia* Tsuneki, 1972a:230. Type species: *Mongolia steppicola* Tsuneki, 1972, by original designation and monotypy. Synonymized with *Eremiasphecium* by Kazenas, 1974:1733 and by Menke and Pulawski in Bohart and Menke, 1976:54.

*Taukumia* Kazenas, 1991a:156. Type species: *Taukumia budrysi* Kazenas, 1991:158, by original designation and monotypy. Synonymized with *Eremiasphecium* by Pulawski, 1992b:398.

*Xanthosphecium* Simon Thomas, 1994:154. Type species: *Xanthosphecium harteni* Simon Thomas, 1994, by original designation. Synonymized with *Eremiasphecium* by Simon Thomas, 1996:196.

Key: Marshakov, 1976a; Schmid-Egger, 2011b:526 (Arabian Peninsula).

Review: Pulawski, 1992b.

Prey: Kazenas, 2001b:241 (a female of undetermined species collected thysanopterans).

### 1. *arabicum* Pulawski

*Eremiasphecium arabicum* Pulawski, 1992b:401, ♀. Holotype: ♀, Saudi Arabia: El Riyadh (CAS). – Pulawski, 1992b:404 (in checklist of *Eremiasphecium*); Schmid-Egger, 2011b:526 (in key to *Eremiasphecium* of Arabian Peninsula), 528 (United Arab Emirates: al Ajban, north of Ajman; Dubai: Nakhalai, Um al-Quwain, Wadi Shawkah; recognition characters, color variation), 529 (color photographs of male), 530 and 531 (color photographs of female); Gadallah, Al Dhafer, Aldryhim, Fadl, and Elgharbawy, 2013:357 (in new catalog of Sphecidae of Saudi Arabia); Schmid-Egger, 2014:564 (United Arab Emirates); Pulawski, 2016b:575 (first record from Mauritania; diagnostic characters); Gadallah, 2020b:59 (in list of aculeate wasps of Arabian Peninsula)

### 2. *budrysi* (Kazenas)

*Taukumia budrysi* Kazenas, 1991a:158, ♀. Holotype: ♀, Kazakhstan: Sarytauikum desert: 20 km north of Aydarly (ZIN). – **As *Eremiasphecium budrysi***: Pulawski, 1992b:401 (new combination), 404 (in checklist of *Eremiasphecium*); Kazenas, 2001b:51 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:133 (geographic distribution, collecting localities in Kazakhstan), 2008a:105 (southeastern Kazakhstan: Sary-Tauikum desert: 20 km north of Aydarly).

### 3. *crassicornis* (Gussakovskij)

*Shestakovia crassicornis* Gussakovskij, 1930a:282, ♀, ♂. Lectotype: ♀, Turkmenistan: Uch-Adzhi (ZIN), designated by Marshakov, 1976a:674. – **As *Eremiasphecium crassicornis***: Myartseva, 1971b:179 (new combination, occurs only in deserts of Turkmenistan, as *crassicornis*); R. Bohart and Menke, 1976:561 (in checklist of world Sphecidae); Marshakov, 1976a:674 (additional description; Kazakhstan, Turkmenistan, Mongolia); Kazenas, 1978b:73 (in key to Sphecidae of Kazakhstan and Central Asia, as *crassicornis*), 1992c:28 (Turkmenistan: Repetek Nature Reserve); Pulawski, 1992b:404 (in checklist of *Eremiasphecium*); Esenbekova and Kazenas, 2000:68 (southeastern Kazakhstan: no specific locality); Kazenas, 2001b:51 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:133 (geographic distribution, collecting localities in Kazakhstan).

*Eremiasphecium dzhanokmenae* Kazenas, 1974c:1734, ♂. Holotype: ♂, Kazakhstan: 10 km west of Alma Ata (ZIN). Synonymized with *Eremiasphecium crassicornis* by Marshakov, 1976a:674. – R. Bohart and Menke, 1976:629 (in checklist of world Sphecidae).

#### 4. *desertorum* (Gussakovskij)

*Shestakovia desertorum* Gussakovskij, 1930a:280, ♀, ♂. Lectotype: ♀, Turkmenistan: Uch-Adzhi (ZIN), designated by Marshakov, 1976a:674. – **As *Eremiasphecium desertorum***: Myartseva, 1971b:179 (new combination, occurs only in deserts of Turkmenistan); R. Bohart and Menke, 1976:561 (in checklist of world Sphecidae); Marshakov, 1976a:674 (bibliographic references), 675 (illustrations of various body parts); Kazenas, 1978b:72, 73 (in key to Sphecidae of Kazakhstan and Central Asia), 1992c:28 (Turkmenistan: Repetek Nature Reserve); Pulawski, 1992b:404 (in checklist of *Eremiasphecium*); Kazenas, 2001b:51 (in checklist of Sphecidae of Kazakhstan and Central Asia); Mokrousov and Gromenko, 2015:126 (Uzbekistan: 5 km north of Mubarek at 39°18'31"N 65°8'20"E); Mokrousov, 2017d:59 (South-East of European Russia: no specific locality), 2017e:246 (in catalog of Eremiasphecinae of Russia); Mokrousov and Danilov, 2017:59 (Russia: Kalmykia: 20 km east of Khulhuta at 46.292°N 46.672°E); Bitsch in Bitsch, Antropov, Gayubo, Leclercq, Schmid-Egger, K. Schmidt, and Straka, 2021:406 (in revision of Sphecidae *sensu lato* of Europe); Medetov, Embergenov, Kholmatov, Elmurodova, Rakhimov, and Tajibaeva, 2024:424 (Uzbekistan: distribution).

#### 5. *digitatum* (Gussakovskij)

*Shestakovia digitata* Gussakovskij, 1930a:278, ♀, ♂. Lectotype: ♀, Turkmenistan: Uch-Adzhi (ZIN), designated by Marshakov, 1976a:674. – **As *Eremiasphecium digitatum***: R. Bohart and Menke, 1976:561 (new combination, in checklist of world Sphecidae); Marshakov, 1976a:674 (bibliographic references), 675 (illustration of wing venation); Kazenas, 1978b:72 (in key to Sphecidae of Kazakhstan and Central Asia), 1992c:28 (Turkmenistan: Repetek Nature Reserve); Pulawski, 1978:228 (in key to Sphecidae of European part of former USSR), 1992b:401 (Mauritania), 404 (in checklist of *Eremiasphecium*); Kazenas, 2001b:51 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:135 (geographic distribution, collecting localities in Kazakhstan).

#### 6. *longiceps* (Gussakovskij)

*Shestakovia longiceps* Gussakovskij, 1930a:284, ♀, ♂. Lectotype: ♀, Turkmenistan: Uch-Adzhi (ZIN), designated by Marshakov, 1976a:672. – **As *Eremiasphecium longiceps***: Myartseva, 1971b:179 (new combination, occurs only in deserts of Turkmenistan); R. Bohart and Menke, 1976:561 (in checklist of world Sphecidae); Marshakov, 1976a:672 (additional description; Turkmenistan, Mongolia), 675 (illustration of various body parts); Kazenas, 1978b:73 (in key to Sphecidae of Kazakhstan and Central Asia), 1992c:28 (Turkmenistan: Repetek Nature Reserve); Pulawski, 1992b:404 (in checklist of *Eremiasphecium*); Kazenas, 2001b:51 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:135 (geographic distribution, collecting localities in Kazakhstan); Rudoiskatel', 2010:153 (Kazakhstan: Mugodzhaz Hills).

#### 7. *mollakorum* Marshakov

*Eremiasphecium mollakorum* Marshakov, 1976a:674, ♀. Holotype: ♀, Turkmenistan: Mollakara near Dzhebel (ZIN). – Marshakov, 1976a:675 (illustrations of various body parts); Pulawski, 1992b:404 (in checklist of *Eremiasphecium*); Kazenas, 2001b:51 (in checklist of Sphecidae of Kazakhstan and Central Asia).

#### 8. *ornatum* (Gussakovskij)

*Shestakovia ornata* Gussakovskij, 1930a:283, ♂. Holotype: ♂, Turkmenistan: Farab (ZIN). – **As *Eremiasphecium ornatum***: R. Bohart and Menke, 1976:561 (new combination, in checklist of world Sphecidae); Marshakov, 1976a:672 (additional description; Turkmenistan, Mongolia), 675 (illustrations of various body parts); Kazenas, 1978b:73 (in key to Sphecidae of Kazakhstan and Central Asia), 1992c:28 (Turkmenistan: Repetek Nature Reserve); Pulawski, 1992b:404 (in checklist of *Eremiasphecium*); Esenbekova and Kazenas, 2000:69 (southeastern Kazakhstan: landing place Dubun' on Ili River); Kazenas, 2001b:51 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:135 (geographic distribution, collecting localities in Kazakhstan), 2008a:105 (southeastern Kazakhstan: Ili River valley: 15 km east of Ayak-Kalkan). *Mongolia steppicola* Tsuneki, 1972a:230, ♀. Holotype: ♀, Mongolia: South Gobi Aymag: 100 km west of Ovot Khuural (TMB). Synonymized with *Eremiasphecium ornatum* by Marshakov, 1976a:672. – **As *Eremiasphecium steppicola***: R. Bohart and Menke, 1976:561 (new combination, in checklist of world Sphecidae); Guichard, 1991a:338 (Jordan).

*Eremiasphecium gussakovskii* Kazenas, 1974c:1735, ♂. Holotype: ♂, Kazakhstan: Ili River valley 15 km east of Ayak-Kalkan (ZIN). Synonymized with *Eremiasphecium ornatum* by Marshakov, 1976a:672. – R. Bohart and Menke, 1976:629 (in checklist of world Sphecidae).

#### 9. *pulawskii* Schmid-Egger

*Eremiasphecium pulawskii* Schmid-Egger, 2011b:536, ♀. Holotype: ♀, United Arab Emirates: Um al-Quwain (Ch. Schmid-Egger personal collection, Berlin). – Schmid-Egger, 2011b:528 (in key to *Eremiasphecium* of Arabian Peninsula), 535 (color photograph of female); Gadallah, 2020b:59 (in list of aculeate wasps of Arabian Peninsula).

#### 10. *sahelense* (Simon Thomas)

*Xanthosphecium sahelense* Simon Thomas, 1994:156, ♀ (as *sahelensis*, incorrect original termination). Holotype: ♀, Senegal: 25-35 km south of Richard Toll (Laboratory of Entomology, University of Wageningen, Netherlands). – **As *Eremiasphecium sahelense***: Simon Thomas, 1996:196 (new combination); Pulawski, 2016b:577 (synonymy; first records from Mauritania and Niger); Gadallah, 2020b:59 (in list of aculeate wasps of Arabian Peninsula).

*Xanthosphecium harteni* Simon Thomas, 1994:155, ♀. Holotype: ♀, Yemen: Al Kowd (Zool. Mus. Amsterdam). Synonymized with *Eremiasphecium sahelense* by Pulawski, 2016b:577. – **As *Eremiasphecium harteni***: Simon Thomas, 1996:196 (new combination); Schmid-Egger, 2011b:526 (in key to *Eremiasphecium* of Arabian Peninsula), 532 (United Arab Emirates), 533 and 534 (color photographs of male and female), 2014:564 (United Arab Emirates).

#### 11. *schmiedeknechtii* Kohl

*Eremiasphecium schmiedeknechtii* Kohl, 1897:69, ♀, ♂ (as *Schmiedeknechtii*, incorrect original capitalization). Syntypes: Egypt: Adelen Island on the Nile near Dahshur (NHMW). – Morice, 1900b:167 (Egypt: Adelen Island); de Beaumont, 1968a:256 (Canary Islands: Gran Canaria); Pulawski, 1965b:576 (synonymy); Myartseva, 1971b:180 (occurring only in sand deserts of southern Palearctic Region); R. Bohart and Menke, 1976:561 (in checklist of world Sphecidae); Marshakov, 1976a:674 (additional description), 675 (illustration of wing venation); Báez and Ortega, 1978:192 (Canary Islands); Kazenas, 1978b:73 (in key to Sphecidae of Kazakhstan and Central Asia); Radović, 1985:66 (sting apparatus analyzed); Pulawski, 1992b:401 (Oman), 405 (in checklist of *Eremiasphecium*); Hohmann, La Roche, Ortega, and Barquín, 1993:259 (detailed locality records from Canary Islands); Wcislo, 1998:181 (proportions of antennae in relations to parasitic/non-parasitic behavior); Roche, 2007a:61 (in checklist of Egyptian Crabronidae), 2007b:4 (in checklist of Egyptian Ampulicidae, Sphecidae, and Crabronidae); Schmid-Egger, 2011b:528 (in key to *Eremiasphecium* of Arabian Peninsula), 536 (first record from United Arab Emirates: north of Ajman; Israel: Hazeva in Arava Valley at 36°28'N 35°09'E), 537 (color photographs of male and female), 2014:564 (United Arab Emirates); Mokrousov and Gromenko, 2015:126 (Uzbekistan: Sundukli Desert at 38°57'45"N 64°32'26"E); Gadallah, 2020b:59 (in list of aculeate wasps of Arabian Peninsula); Bitsch *in* Bitsch, Antropov, Gayubo, Leclercq, Schmid-Egger, K. Schmidt, and Straka, 2021:406 (in revision of Sphecidae *sensu lato* of Europe); Medetov, Embergenov, Kholmatov, Elmurodova, Rakhimov, and Tajibaeva, 2024:424 (Uzbekistan: distribution).

*Shestakovia bicolor* Gussakovskij, 1930a:281, ♂. Holotype: ♂, Turkmenistan: Uch-Adzhi (ZIN). Synonymized with *Eremiasphecium schmiedeknechtii* by Pulawski, 1965c:576. – Kazenas, 2001b:51 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:133 (geographic distribution, collecting localities in Kazakhstan); Mokrousov, 2017d:59 (South-East of European Russia: no specific locality); Mokrousov, 2017e:246 (in catalog of Eremiasphecinae of Russia); Mokrousov and Danilov, 2017:58 (Russia: Astrakhan' Oblast': near Volzhskiy village at 46.965°N, 47.53°E); Kalmykia: 20 km east of Khulhuta, 46.292°N, 46.672°E); Medetov, Embergenov, Kholmatov, Elmurodova, Rakhimov, and Tajibaeva, 2024:424 (Uzbekistan: distribution).

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Roche, 1981:5 (in checklist of Sphecidae of United Arab Emirates); Gadallah, 2020b:59 (in list of aculeate wasps of Arabian Peninsula, two species).