

HOLOTACHYSPHEX

Holotachyspex de Beaumont, 1940:179. Type species: *Tachyspex holognathus* Morice, 1897, by monotypy.

Phytospex Arnold, 1951:153. Type species: *Tachyspex turneri* Arnold, 1923, by original designation.

Haplognatha Gussakovskij, 1952:248. Type species: *Haplognatha prosopigastroides* Gussakovskij, 1952, by original designation and monotypy. Synonymized with *Holotachyspex* by de Beaumont, 1955b:222.

Revision: Pulawski, 1992a.

Key: Schmid-Egger, Fallahzadeh, Khosroabadi, and Ljubomirov, 2016.

Review of biology: Kazenas, 2001b:162.

1. *holognathus* (Morice)

Tachyspex (?) *integer* Morice, 1897:308, ♀, ♂, junior primary homonym of *Tachyspex integer* Kohl, 1892, now *Parapiagetia genicularis* (F. Morawitz, 1890). Syntypes: Egypt: Zeitun near Cairo (OXUM).

Tachyspex holognathus Morice, 1897:434, substitute name for *Tachyspex integer* Morice. – de Beaumont, 1940:179 (in revision of Egyptian *Tachyspex*); Honoré, 1942:56 (Egypt: Hawamdieh, Kerdassa); de Beaumont, 1947a:212 (in new revision of Egyptian *Tachyspex*), 1961c:50 (Greece: Island of Crete), 1965a:53 (Greece: Crete; citation of de Beaumont, 1961c:50). – **As *Holotachyspex holognathus***: Pulawski, 1972:818 (new combination; comparison with *Holotachyspex mochii*); de Beaumont, Bytinski-Salz and Pulawski, 1973:13 (Israel); R. Bohart and Menke, 1976:282 (in checklist of world Sphecidae); Guichard, 1980:228 (Oman); Roche, 1981:3 (in checklist of Sphecidae of United Arab Emirates); Krombein, 1980:123 (Sri Lanka); Pulawski, 1992a:237 (in revision of world *Holotachyspex*); K. Schmidt and Bitsch in Bitsch et al., 2001:276 (in Sphecidae Fauna of Western Europe); Roche, 2007a:64 (in checklist of Egyptian Crabronidae), 2007b:4 (in checklist of Egyptian Ampulicidae, Sphecidae, and Crabronidae); Gadallah, Al Dhafer, Aldryhim, Fadl, and Elgharbawy, 2013:351 (in new catalog of Sphecidae of Saudi Arabia); Atbaei, Fallahzadeh, and Ljubomirov, 2015:12 (first record from Iran: Fars Province); Schmid-Egger, Fallahzadeh, Khosroabadi, and Ljubomirov, 2016:188 (in key to world *Holotachyspex*; diagnostic characters, locality records from Greece, Iran, and Senegal); Jahantigh, Rakhshani, Mokhtari, and Ramroodi, 2017:55 (Iran: known from Fars Province); Fallahzadeh, Ljubomirov, Tavakoli Roodi, and Saghaei, 2018:627 (Iran: Hormozgan: Poshte at 27°26'N 57°09'E); Sadeghi, Fallahzadeh, Ostovan, Ljubomirov, and Hesami, 2019a:267 (Iran: Fars: Jahrom and Noor Abad: Fahlian); Gadallah, 2020b:36 (in list of aculeate wasps of Arabian Peninsula); K. Schmidt, Straka, and Bitsch in Bitsch, Antropov, Gayubo, Leclercq, Schmid-Egger, K. Schmidt, and Straka, 2021:160 (in revision of Sphecidae *sensu lato* of Europe); Mawadda and Girish Kumar, 2023:112 (in checklist of Crabroninae of Northern India).

Tachyspex pollux Nurse, 1903a:516, ♂. Holotype: ♂, India: Gujarat: Deesa (BMNH). Synonymized with ¹*Holotachyspex holognathus* by Pulawski, 1975a:313. – Ramakrishna Ayyar, 1916:551 (in catalog of Indian aculeates described after Bingham, 1897).

2. *iraniensis* Schmid-Egger and Fallahzadeh

Holotachysphex iraniensis Schmid-Egger and Fallahzadeh in Schmid-Egger, Fallahzadeh, Khosroabadi, and Ljubomirov, 2016:189, ♀, ♂. Holotype: ♀, Iran: Fars Province: Darab at 28°42'N 54°34'E (Ch. Schmid-Egger coll., Berlin, Germany) – Schmid-Egger, Fallahzadeh, Khosroabadi, and Ljubomirov, 2016:188 (in key to world *Holotachysphex*); Jahantigh, Rakhshani. Mokhtari, and Ramroodi, 2017:55 (Iran: known from Fars, Hormozgan, and Kerman provinces); Sadeghi, Fallahzadeh, Ostovan, Ljubomirov, and Hesami, 2019a:267 (Iran: Fars: Jahrom); Ghaderipour, Khayrandish, Madjdzadeh, Ebrahimi, and Schmid-Egger, 2020:117 (Iran: Kerman).

3. *mochii* (de Beaumont)

Tachysphex mochii de Beaumont, 1947c:676, ♀. Holotype: ♀, Greece: Rhodes: no specific locality (originally A. Mochi coll., Rome, Italy, now MSNT). – Medetov, Embergenov, Kholmatov, Elmurodova, Rakhimov, and Tajibaeva, 2024:422 (Uzbekistan: distribution). – **As *Holotachysphex mochii***: Pulawski, 1972:818 (new combination; comparison with *Holotachysphex holognathus*); de Beaumont, Bytinski-Salz and Pulawski, 1973:13 (Israel); R. Bohart and Menke, 1976:282 (in checklist of world Sphecidae); Pulawski, 1992a:235 (in revision of world *Holotachysphex*); K. Schmidt and Bitsch in Bitsch et al., 2001:276 (in Sphecidae Fauna of Western Europe); Ljubomirov and Yildirim, 2008:196 (in catalog of Crabronidae of Turkey); Yıldırım, Ljubomirov, and Lelej, 2014:11 (distribution in Turkey by biogeographic provinces); Atbaei, Fallahzadeh, and Ljubomirov, 2015:12 (first record from Iran: Fars Province); Koçak and Kemal, 2015:145 (in checklist of Hymenoptera of Turkey); Mokrousov and Gromenko, 2015:126 (Uzbekistan: village Tatar at 38°50'40"N 67°5'34"E); Schmid-Egger, Fallahzadeh, Khosroabadi, and Ljubomirov, 2016:188 (in key to world *Holotachysphex*), 190 (diagnostic characters, partly red males from Jordan, locality records from Jordan, Iran, and Turkey); Jahantigh, Rakhshani. Mokhtari, and Ramroodi, 2017:55 (Iran: known from Fars and Khorasan-e Razavi provinces); Mokrousov, Proshchalykin, Aliyev, and Maharramov, 2019:12 (Azerbaijan: Nakhichevan Autonomous Republic); Sadeghi, Fallahzadeh, Ostovan, Ljubomirov, and Hesami, 2019a:267 (Iran: Fars: Jahrom and Kazeroon: Zavali); Kaplan and Yildirim, 2021:60 (in catalog of Crabronidae of Turkey); K. Schmidt, Straka, and Bitsch in Bitsch, Antropov, Gayubo, Leclercq, Schmid-Egger, K. Schmidt, and Straka, 2021:160 (in revision of Sphecidae *sensu lato* of Europe).

Haplognatha prosopigastroides Gussakovskij, 1952:249, ♀. Holotype: ♀, Tajikistan: foothills of Hissar Mountains near Stalinabad, now Dushanbe (ZIN, lost). Synonymized with *Holotachysphex mochii* by Mokrousov, 2017:35. – **As *Tachysphex prosopigastroides*** (subgenus *Holotachysphex*, junior secondary homonym of *Tachysphex prosopigastroides* Bischoff, 1913): de Beaumont, 1955b:222 (synonymy of *Haplognatha*). – **As *Holotachysphex prosopigastroides***: R. Bohart and Menke, 1976:282 (new combination, in checklist of world Sphecidae); Kazenas, 1978b:135 (in key to Sphecidae of Kazakhstan and Central Asia); Pulawski, 1992a:239 (unrecognizable species); Schmid-Egger, Fallahzadeh, Khosroabadi, and Ljubomirov, 2016:188 (in key to world *Holotachysphex*), 191 (unrecognizable species).

Tachysphex pentapolitanus de Beaumont, 1960b:241, ♀. Holotype: ♀, Libya: Cyrenaica: Barce (BMNH). Synonymized with *Holotachysphex mochii* by Pulawski, 1992a:235. – **As *Holotachysphex pentapolitanus***: R. Bohart and Menke, 1976:282 (new combination, in checklist of world Sphecidae).

Tachysphex schwarzi Pulawski, 1967a:408, ♀, ♂. Holotype: ♂, Turkey: Mersin: Mut (M. Schwarz coll., Ansfelden, Austria). Synonymized with *Holotachysphex mochii* by Pulawski, 1972:818.

4. *sacalava* (Arnold)

Tachysphex turneri sacalava Arnold, 1945:106, ♀, ♂. Syntypes: Madagascar: no specific locality (MNHN). – **As *Holotachysphex sacalava***: Menke in R. Bohart and Menke, 1976:282 (new combination, new status, in checklist of world Sphecidae); Pulawski, 1992a:234 (in revision of world *Holotachysphex*), 2003b:796 (in checklist of Malagasy Sphecidae); Madl, 2014a:963 (in catalog of Ampulicidae, Crabronidae, and Sphecidae of Madagascar, with synonymy and locality records); Schmid-Egger, Fallahzadeh, Khosroabadi, and Ljubomirov, 2016:188 (in key to world *Holotachysphex*), 191 (diagnostic characters, Madagascar: Tuléar: Andohahela National Park).

5. *turneri* (Arnold)

Tachysphex turneri Arnold, 1923:165, ♀, ♂ (as *Turneri*, incorrect original capitalization, authorship attributed to Brauns). Holotype: sex not stated, South Africa: Eastern Cape Province: Willowmore (SAM). – Arnold, 1930:3 (in checklist of Afrotropical Sphecidae). – As *Phytosphex turneri*: Arnold, 1951:154 (new combination, type species of *Phytosphex*; Ethiopia: Addis Ababa). – As *Holotachysphex turneri*: R. Bohart and Menke, 1976:282 (new combination, in checklist of world Sphecidae); Gess, 1978:209 (nest, prey: pyrgomorphid Acridoidea); F. Gess and S. Gess, 1980:52 (nest); F. Gess, 1981:30 (South Africa: 18 km west-northwest of Grahamstown; nest, prey), 34, 66, 68, 69 (nesting habits); Steiner, 1986:103 (references to papers on nesting habits); Pulawski, 1992a:230 (in revision of world *Holotachysphex*); Seyoum and Pulawski, 2001:321 (potential control agent of acridid pests in Ethiopia); Schmid-Egger, Fallahzadeh, Khosroabadi, and Ljubomirov, 2016:188 (in key to world *Holotachysphex*), 192 (diagnostic characters; South Africa: Eastern Cape Province: Jansenville, Zimbabwe: 60 km north-northwest of Bulawayo).

Tachysphex turneri var. *transvaalensis* Arnold, 1924:66, ♀. Holotype: ♀, South Africa: North West Province: Lichtenburg (TMP). Synonymized with *Holotachysphex turneri* by Pulawski, 1992a:230. – Arnold, 1930:3 (in checklist of Afrotropical Sphecidae). – As *Holotachysphex turneri transvaalensis*: R. Bohart and Menke, 1976:282 (new status, in checklist of world Sphecidae).

sp.

de Beaumont, 1961c:50 (Greece: island of Crete); Gadallah, 2020b:37 (in list of aculeate wasps of Arabian Peninsula).