

Last updated: 26 September 2023

## PARAPIAGETIA

*Parapiagetia* Kohl, 1897a:373. Type species: *Piagetia odontostoma* Kohl, 1884, by original designation.

*Lirosphex* Brèthes, 1913b:150. Type species: *Tachysphex subpetiolatus* Brèthes, by original designation. Synonymized with *Parapiagetia* by Menke in R. Bohart and Menke, 1976:44.

*Psammosphex* Gussakovskij, 1952:246. Type species: *Tachysphex genicularis* F. Morawitz, 1890, by original designation. Synonymized with *Parapiagetia* by de Beaumont, 1955b:223.

Revision: Pulawski, 1977 (Old World species).

Key: Schmid-Egger and van Harten, 2022:567 (Arabian Peninsula).

Review of biology: Kazenas, 2001b:162.

### 1. *alwathbaensis* Schmid-Egger

*Parapiagetia alwathbaensis* Schmid-Egger in Schmid-Egger and van Harten, 2022:569, ♀, ♂. Holotype: ♂, United Arab Emirates: Abu Dhabi: Al Wathba Wetland Reserve at 24.248°N 54.742°E (Ch. Schmid-Egger personal collection, Berlin, Germany). – Schmid-Egger and van Harten, 2022:568 (in key to *Parapiagetia* of Arabian Peninsula).

### 2. *arabica* Schmid-Egger

*Parapiagetia arabica* Schmid-Egger, 2014:587, ♀. Holotype: ♀, United Arab Emirates: Al-Ajban (Ch. Schmid-Egger personal collection, Berlin, Germany). – Schmid-Egger, 2014:589 (color photograph of female); Gadallah, 2020b:46 (in list of aculeate wasps of Arabian Peninsula); Schmid-Egger and van Harten, 2022:568 (in key to *Parapiagetia* of Arabian Peninsula), 570 (United Arab Emirates: Abu Dhabi: Al Wathba Wetland Reserve, Barqa al Saqoor; description of ♂).

### 3. *bidens* Pulawski

*Parapiagetia bidens* Pulawski, 1977b:637, ♀. Holotype: ♀, Burkina Faso: Ouagadougou (ZIN). – Gadallah, Abu el-Ghiet, and Edmardash, 2021:1714 (first record from Saudi Arabia: Jazan Province).

### 4. *biskrensis* Pulawski

*Parapiagetia biskrensis* Pulawski, 1977b:645, ♀. Holotype: ♀, Algeria: Biskra (Lausanne).

### 5. *capitalis* (E. Saunders)

*Tachysphex capitalis* E. Saunders, 1910:526, ♀. Holotype: ♀, Algeria: Biskra (OXUM). – Morice, 1911:105 (Algeria: Biskra); de Beaumont, 1945c:677 (not a member of *Tachysphex*). – **As *Parapiagetia capitalis***: de Beaumont, 1960:243 (probably member of *erythropoda* species group of *Parapiagetia*); R. Bohart and Menke, 1976:281 (in checklist of world Sphecidae); Pulawski, 1977b:646 (in revision of Old World *Parapiagetia*).

### 6. *erythropoda* (Cameron)

*Tachytes erythropoda* Cameron, 1889c:135, ♀. Holotype or syntypes: ♀, India: Uttar Pradesh: Mussoree (OXUM). – Bingham, 1897:187 (in revision on Indian aculeates); Dalla Torre, 1897:689 (in catalog of world Hymenoptera, as *erythropus*) Maxwell-Lefroy, 1909:201 (India: common). – **As *Notogonia erythropoda***: Cameron, 1890b:pl. IX, fig. 5 (new combination, illustration of female). – **As *Parapiagetia erythropoda***: R. Turner, 1917e:196 (new combination, Sri Lanka); R. Bohart and Menke, 1976:281 (in checklist of world Sphecidae); Pulawski, 1977b:655 (in revision of Old World *Parapiagetia*); S. Gupta, 1995:86 (India: Uttar Pradesh); Roche, 2007a:69 (in checklist of Egyptian Crabronidae), 2007b:4 (in checklist of Egyptian Ampulicidae, Sphecidae, and Crabronidae); nec Schmid-Egger, 2011b:565 (= *Parapiagetis huwrobertsi*); Gadallah, 2020b:46 (in list of aculeate wasps of Arabian Peninsula); Ghaderipour, Khayrandish, Madjzadeh, Ebrahimi, and Schmid-Egger, 2020:119 (Iran: Kerman); Gadallah, Abu el-Ghiet, and Edmardash, 2021:1714 (first record from Saudi Ara-

bia: Jazan Province); Schmid-Egger and van Harten, 2022:568 (in key to *Parapiagetia* of Arabian Peninsula); Mawadda and Girish Kumar, 2023:112 (in checklist of Crabroninae of Northern India).

*Tachytes denticulatus* Morice, 1897:305, ♀ (as *denticulata*, incorrect original termination). Lectotype: ♀, Egypt: Zeitun near Cairo (OXUM), designated by Pulawski, 1977b:655. Synonymized with *Parapiagetia erythropoda* by Pulawski, 1975a:314. – Honoré, 1942:57 (Egypt). – **As *Parapiagetia denticulata***: Pulawski, 1961a:86 (new combination, description of ♂).

*Parapiagetia capensis* Brauns, 1910a:666, ♀, ♂. Lectotype: ♀, South Africa: Eastern Cape Province: Willowmore (TMP), designated by Pulawski, 1977b:655. Synonymized with *Parapiagetia erythropoda* by Pulawski, 1975:314 – Brauns, 1911a:239 (South Africa, nesting in clay cliff, sleeping on plants); Arnold, 1922:133 (in revision of south African Sphecidae), 1930:2 (in checklist of Afrotropical Sphecidae); R. Bohart and Menke, 1976:281 (in checklist of world Sphecidae).

*Parapiagetia wickwari* R. Turner, 1914b:256, ♂. Holotype: ♂, Sri Lanka: Colombo (BMNH). Synonymized with *Parapiagetia erythropoda* by Pulawski, 1977b:655. – **As *Parapiagetia erythropoda wickwari***: R. Turner, 1917e:167 (new status).

*Parapiagetia capensis* var. *rhodesiana* Arnold, 1922:134, ♀. Holotype: ♀, Zimbabwe: Sawmills (SAMC). Synonymized with *Parapiagetia erythropoda* by Pulawski, 1977b:655. – Arnold, 1930:2 (in checklist of Afrotropical Sphecidae). – **As *Parapiagetia capensis rhodesiana***: R. Bohart and Menke, 1976:282 (new status, in checklist of world Sphecidae).

*Parapiagetia capensis* var. *ferox* Arnold, 1922:134, ♀. Holotype: ♀, Zimbabwe: Victoria Falls (SAMC). Synonymized with *Parapiagetia erythropoda* by Pulawski, 1977b:655. – Arnold, 1930:2 (in checklist of Afrotropical Sphecidae). – **As *Parapiagetia capensis ferox***: R. Bohart and Menke, 1976:281 (new status, in checklist of world Sphecidae).

*Parapiagetia saharica* de Beaumont, 1956a:201, ♂. Holotype: ♂, Libya: Fezzan: Brak (BMNH). Synonymized with *Parapiagetia erythropoda* by Pulawski, 1975a:315. – de Beaumont, 1955b:223 (nomen nudum, member of *erythropoda* species group of *Parapiagetia*), 1960b:243 (member of *erythropoda* species group of *Parapiagetia*).

## 7. *flora* Pulawski

*Parapiagetia flora* Pulawski, 1977b:652, ♀, ♂. Holotype: ♀, Sri Lanka: Hambantota (USNM).

## 8. *genicularis* (F. Morawitz)

*Tachysphex genicularis* F. Morawitz, 1890:592, ♀. Holotype: ♀, Turkmenistan: Pereval between Dzhebel and Kazandjik (ZIN). – F. Morawitz, 1894:342 (Turkmenistan: Serax); Dalla Torre, 1897:680 (in catalog of world Hymenoptera). – **As *Psammosphe* *genicularis***: Gussakovskij, 1952:342 (type species of *Psammosphe*). – **As *Parapiagetia genicularis***: de Beaumont, 1955b:223 (*Psammosphe* synonymized with *Parapiagetia*), 1960b:244 (member of *odontostoma* species group of *Parapiagetia*); de Beaumont, Bytinski-Salz, and Pulawski, 1973:14 (Israel); Pulawski, 1975a:314 (synonymy); R. Bohart and Menke, 1976:281 (in checklist of world Sphecidae); Pulawski, 1977b:612 (in revision of Old World *Parapiagetia*, Egypt to Pakistan, Armenia, Soviet Central Asia); Kazenas, 1978b:139 (in key to Sphecidae of Kazakhstan and Central Asia); Esenbekova and Kazenas, 2000:35 (southeastern Kazakhstan: 45 km southwest of Chundzha); Guichard, 1991a:339 (Jordan, as *Prosopigastra*); Kazenas, 2001b:31 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:77 (geographic distribution, collecting localities in Kazakhstan); Roche, 2007a:69 (in checklist of Egyptian Crabronidae), 2007b:4 (in checklist of Egyptian Ampulicidae, Sphecidae, and Crabronidae); Kazenas, 2008a:102 (southeastern Kazakhstan: Temirlik River valley 45 km southwest of Chundzha); Ljubomirov and Yildirim, 2008:196 (in catalog of Crabronidae of Turkey); Kazenas, 2013b:495 (southeastern Kazakhstan: 45 km southwest of Chundzha); Yildirim, Ljubomirov, and Lelej, 2014:11 (distribution in Turkey by biogeographic provinces); Koçak and Kemal, 2015:149 (in checklist of Hymenoptera of Turkey); Fallahzadeh, Ljubomirov, Tavakoli Roodi, and Saghaei, 2018:628 (Iran: Hormozgan: Sar Kahn at 27°24'N 57°07'E); Kaplan and Yildirim, 2021:60 (in catalog of Crabronidae of Turkey), 2023:1686 (in checklist of Sphecidae *sensu lato* of Turkey).

*Tachysphex ? integer* Kohl, 1892:216, ♂. Holotype: ♂, Armenia or Azerbaijan: Arax River valley: no specific locality (NHMW). Synonymized with *Parapiagetia genicularis* by Pulawski, 1975a:314. – Dalla Torre, 1897:680 (in catalog of world Hymenoptera). – **As *Parapiagetia integra***: de Beaumont, 1947c:677 (new combination), 1955b:223 (member of *integra* species group of *Parapiagetia*), 1960:244 (member of *odontostoma* species group of *Parapiagetia*).

**9. *goeksuensis* Schmid-Egger**

*Parapiagetia goeksuensis* Schmid-Egger, 2014:588, ♀. Holotype: ♀, Turkey: Köseleri 48 km northwest of Silifke at 36.45°N 33.41°E (Ch. Schmid-Egger personal collection, Berlin, Germany). – Schmid-Egger, 2014:589 (color photograph of female); Kaplan and Yildirim, 2021:60 (in catalog of Crabronidae of Turkey), 2023:1686 (in checklist of Sphecidae *sensu lato* of Turkey).

**10. *haladai* Schmid-Egger**

*Parapiagetia haladai* Schmid-Egger in Schmid-Egger and van Harten, 2022:570, ♀, ♂. Holotype: ♀, United Arab Emirates: Bithnah: Camel tract: Allabsa at 25°26'N 55°44'E (OÖLM). – Schmid-Egger and van Harten, 2022:568 (in key to *Parapiagetia* of Arabian Peninsula, female presumable).

**11. *huwrobertsi* Schmid-Egger**

*Parapiagetia huwrobertsi* Schmid-Egger in Schmid-Egger and van Harten, 2022:572, ♀, ♂. Holotype: ♀, United Arab Emirates: Al Ajban (Ch. Schmid-Egger personal collection, Berlin, Germany). – Schmid-Egger and van Harten, 2022:568 (in key to *Parapiagetia* of Arabian Peninsula).

As *Parapiagetia erythropoda*: Schmid-Egger, 2011b:565 (first record from United Arab Emirates: Al-Ajban), corrected to *Parapiagetia huwrobertsi* by Schmid-Egger in Schmid-Egger and van Harten, 2022:572

**12. *indica* Pulawski**

*Parapiagetia indica* Pulawski, 1977b:649, ♀, ♂. Holotype: ♀, India: Gujarat: Deesa (BMNH).

**13. *joergenseni* (Brèthes)**

*Lirosphex joergenseni* Brèthes: Jörgensen, 1912:291 (as *Jörgenseni*, incorrect original capitalization and diacritic mark), nomen nudum (Argentina: Mendoza Province).

*Lirosphex joergenseni* Brèthes, 1913:150, ♂ (as *Jörgenseni*, incorrect original capitalization and diacritic mark). Holotype: ♂, Argentina: Mendoza: Chacras de Coria (MACN). – Genise, 1990:26 (depository of type material unknown). – **As *Parapiagetia joergenseni***: R. Bohart and Menke, 1976:281 (new combination, in checklist of world Sphecidae); Amarante, 2002:34 (in catalog of Neotropical Crabronidae).

**14. *kaszabi* Tsuneki**

*Parapiagetia kaszabi* Tsuneki, 1972e:394, ♀. Holotype: ♀, Mongolia: Baianhongor Aymag: Ehingol oasis (TMB). – R. Bohart and Menke, 1976:281 (in checklist of world Sphecidae); Pulawski, 1977b:625 (in revision of Old World *Parapiagetia*; Kazakhstan and Turkmenistan, Mongolia, China: Sinkiang); Kazenas, 1978b:138 (in key to Sphecidae of Kazakhstan and Central Asia); Esenbekova and Kazenas, 2000:35 (southeastern Kazakhstan: 30 km east of Chilik, near landing place Dubun' on Ili River); Kazenas, 2001b:31 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:77 (geographic distribution, collecting localities in Kazakhstan), 2008a:102 (southeastern Kazakhstan: Ili River valley: 30 km east of Chilik, near landing place Dubun', 8-9 km southwest of Zharkent), 2013b:495 (southeastern Kazakhstan: Borandysu 30 km east of Chilik, near landing place Dubun'); Mokrousov, Shlyakhtenok, and Grebennikov, 2016:24 (first record from Russia: Astrakhan' Oblast': near Volzhski village at 46.965°N 47.53°E); Antropov, 2017b:237 (in catalog of Crabroninae of Russia); Mokrousov, 2017d:59 (South-East of European Russia).

**15. *krombeini* Pulawski**

*Parapiagetia krombeini* Pulawski, 1977b:641, ♀. Holotype: ♀, Egypt: 15 km south of Ismailia (USNM). – Roche, 2007a:70 (in checklist of Egyptian Crabronidae), 2007b:4 (in checklist of Egyptian Ampulicidae, Sphecidae, and Crabronidae).

**16. kroupai Schmid-Egger**

*Parapiagetia kroupai* Schmid-Egger, 2014:588, ♀. Holotype: ♂, United Arab Emirates: north of Ajman at 25.43°N 55.48°E (Ch. Schmid-Egger coll.). – Schmid-Egger, 2014:590 (color photograph of male); Gadallah, 2020b:46 (in list of aculeate wasps of Arabian Peninsula); Schmid-Egger and van Harten, 2022:568 (in key to *Parapiagetia* of Arabian Peninsula).

**17. longicornis Arnold**

*Parapiagetia longicornis* Arnold, 1945:93, ♀, ♂. Lectotype: ♀, Madagascar: Behara (MNHN), designated by Pulawski, 1977b:639. – Leclercq, 1961d:108 (Madagascar: locality records); R. Bohart and Menke, 1976:281 (in checklist of world Sphecidae); Pulawski, 1977b:639 (in revision of Old World *Parapiagetia*); Leclercq, 1990b:117 (color of gaster); Pulawski, 2003b:797 (in checklist of Malagasy Sphecidae); Madl, 2014a:976 (in catalog of Ampulicidae, Crabronidae, and Sphecidae of Madagascar, with synonymy and locality records).

**18. maligna Pulawski**

*Parapiagetia maligna* Pulawski, 1977b:638, ♀. Holotype: ♀, Mali: Gao (BMNH).

**19. mongolica (F. Morawitz)**

*Piagetia mongolica* F. Morawitz, 1889a:130, ♀, ♂. Lectotype: ♀, China: Nei Mongol Autonomous Region: Zagan Buryuk on Edsin-gol River (ZIN), designated by Pulawski, 1977b:628. – Dalla Torre, 1897:676 (in catalog of world Hymenoptera); Myartseva, 1963b:61 (Turkmenistan: lower Murgab River), 1965:97 (Turkmenistan: Akibay). – **As *Parapiagetia mongolica***: Kohl, 1897:361 (new combination), 374 (new combination); de Beaumont, 1960b:243 (member of *odontostoma* species group of *Parapiagetia*); R. Bohart and Menke, 1976:281 (in checklist of world Sphecidae); Pulawski, 1977b:628 (in revision of Old World *Parapiagetia*; North Africa, Kazakhstan, Transcaspia, China: Inner Mongolia); Kazenas, 1978b:138 (in key to Sphecidae of Kazakhstan and Central Asia); Roche, 1981:3 (in checklist of Sphecidae of United Arab Emirates); Al-Houty, 1989:162 (Kuwait: Erifjan, Sulabiya), 1997:161 (Kuwait: no specific locality); Esenbekova and Kazenas, 2000:35 (southeastern Kazakhstan: 30 km and 70-75 km east of Chilik, near landing place Dubun' on Ili River, near Kapchagay); Kazenas, 2001b:31 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:77 (geographic distribution, collecting localities in Kazakhstan); Roche, 2007a:69 (in checklist of Egyptian Crabronidae), 2007b:4 (in checklist of Egyptian Ampulicidae, Sphecidae, and Crabronidae); Kazenas, 2008a:102 (southeastern Kazakhstan: Ili River valley: 35 km north of and 30-75 km east of Chilik, 16 km west of Ayak-Kalkan, near landing place Dubun', near Kapchagay, 11 km south of Zhar-kent), 2013b:495 (southeastern Kazakhstan: near landing place Dubun'); Gadallah, 2020b:46 (in list of aculeate wasps of Arabian Peninsula).

As *Parapiagetia odontostoma*: Honoré, 1942:54 (Egypt), corrected to *Parapiagetia mongolica* by Pulawski, 1977b:629.

As *Parapiagetia* sp.: de Beaumont, 1952:308 (prey: a caterpillar). Corrected to *Parapiagetia mongolica* by Pulawski, 1977b:629 and 632.

*Parapiagetia zorah* de Beaumont, 1955a:195, ♀, ♂. Holotype: ♀, Egypt: Fayum (Lausanne). Synonymized with *Parapiagetia mongolica* by Pulawski, 1977b:629. – de Beaumont, 1956a:201 (Chad: Tibesti), 1960b:243 (member of *odontostoma* species group of *Parapiagetia*), 244 (Libya); Pulawski, 1961a:86 (Egypt); R. Bohart and Menke, 1976:281 (in checklist of world Sphecidae).

**20. nilotica Pulawski**

*Parapiagetia nilotica* Pulawski, 1977b:642, ♀, ♂. Holotype: ♀, Sudan: Khartoum (originally W. Pulawski coll., now CAS).

**21. odontostoma (Kohl)**

*Piagetia odontostoma* Kohl, 1884a:359, ♀. Lectotype: ♀: Egypt: Sinai Peninsula: Tor (NHMW), designated by Pulawski, 1977b:626 (NHMW). – Kohl, 1885a:264 (in revision of Palearctic Larrinae), 265 (in checklist of world *Piagetia*), 1894:305 (as *Piagetia saussurei* Kohl, a lapsus for *odontostoma*); Dalla Torre, 1897:676 (in catalog of world Hymenoptera). – **As *Parapiagetia odontostoma***: Kohl, 1897:261 (type species of *Parapiagetia*, as *saussurei*), 361 (is a member of *Parapiagetia*), 373 (type species of *Parapiagetia*); Kruger, 1929a:22 and 1929b:57 (Libya: Cyrenaica: Giarabub); Guiglia, 1934b:304 (Libya: bibliography and summary of locality records); nec Honoré, 1942:54 (= *Parapiagetia mongolica*); Giner Marí,

1945b:362 (Morocco: Western Sahara: El Aiun); Balthasar, 1954b:270 (Palestine: Jordan valley); de Beaumont, 1955a:196 (Morocco); 1956a:201 (Chad: Tibesti); 1960b:243 (member of *odontostoma* species group of *Parapiagetia*), 244 (Libya); Pulawski, 1961a:86 (Egypt); de Beaumont, Bytinski-Salz, and Pulawski, 1973:14 (Israel); R. Bohart and Menke, 1976:626 (in checklist of world Sphecidae); Pulawski, 1977b:626 (in revision of Old World *Parapiagetia*, North Africa, Israel, Yemen); Dollfuss, 1989:11 (lectotype in NHMW); Roche and Zalut, 1994:115 (Egypt: Sinai Peninsula); Gadallah and Assery, 2004b:1396 (skeletal parts of sting apparatus); Roche, 2007a:69 (in checklist of Egyptian Crabronidae), 2007b:4 (in checklist of Egyptian Ampulicidae, Sphecidae, and Crabronidae); Gadallah, Al Dhafer, Aldryhim, Fadl, and Elgharbawy, 2013:353 (in new catalog of Sphecidae of Saudi Arabia); Gadallah, 2020b:46 (in list of aculeate wasps of Arabian Peninsula); Schmid-Egger and van Harten, 2022:568 (in key to *Parapiagetia* of Arabian Peninsula).

## 22. *piagetioides* (E. Saunders)

*Tachysphex piagetioides* E. Saunders, 1910:524, ♀. Holotype: ♀, Algeria: Biskra (OXUM). – Morice, 1911:105 (Algeria: Biskra). – **As *Parapiagetia piagetioides***: de Beaumont, 1947c:677 (new combination), 1955b:223 (member of *odontostoma* species group of *Parapiagetia*), 1960b:244 (description of ♂, Libya); R. Bohart and Menke, 1976:281 (in checklist of world Sphecidae); Pulawski, 1977b:618 (in revision of Old World *Parapiagetia*; Algeria, Libya, Kazakhstan); Kazenas, 2001b:31 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:77 (geographic distribution, collecting localities in Kazakhstan), 2004d:32 (Kazakhstan: Lake Inder).

*Parapiagetia pilosa* Kazenas, 1978b:138, ♀ (authorship attributed to Pulawski). Holotype (Pulawski, 1979b:303): ♀, Kazakhstan: Lake Inder area (ZIN). Synonymized with *Parapiagetia piagetioides* by Pulawski, 1979c:303.

## 23. *pluridentata* Arnold

*Parapiagetia pluridentata* Arnold, 1945:94, ♀. Holotype: ♀, Madagascar: Bekily (MNHN). – R. Bohart and Menke, 1976:281 (in checklist of world Sphecidae); Pulawski, 1977b:635 (in revision of Old World *Parapiagetia*), 2003b:797 (in checklist of Malagasy Sphecidae); Madl, 2014a:976 (in catalog of Ampulicidae, Crabronidae, and Sphecidae of Madagascar, with synonymy and locality records).

## 24. *pubescens* Pulawski

*Parapiagetia pubescens* Pulawski, 1979b:135, ♀. Holotype: ♀, Turkmenistan: 25 km east of Ashgabat (ZIN).

## 25. *richteri* de Beaumont

*Parapiagetia richteri* de Beaumont, 1970c:15, ♀, ♂. Holotype: ♀, Iran: Baluchistan: Iranshahr (Stuttgart). – R. Bohart and Menke, 1976:281 (in checklist of world Sphecidae); Pulawski, 1977b:661 (in revision of Old World *Parapiagetia*); Guichard, 1980:228 (Oman); Jahantigh, Rakhshani, Mokhtari, and Ramroodi, 2017:56 (Iran: known from Sistan-o Baluchestan Province); Gadallah, 2020b:46 (in list of aculeate wasps of Arabian Peninsula); Schmid-Egger and van Harten, 2022:568 (in key to *Parapiagetia* of Arabian Peninsula).

## 26. *rufescens* (Gussakovskij)

*Psammospheg rufescens* Gussakovskij, 1952:247, ♂. Holotype: ♂, Tajikistan: Djilikul (ZIN, lost?). – **As *Parapiagetia rufescens***: de Beaumont, 1955b:233 (new combination), 1960b:243 (member of *erythropoda* species group of *Parapiagetia*); R. Bohart and Menke, 1976:664 (in checklist of world Sphecidae); Pulawski, 1977b:664 (in revision of Old World *Parapiagetia*); Kazenas, 1978b:138 (in key to Sphecidae of Kazakhstan and Central Asia), 1992c:27 (Turkmenistan: Repetek Nature Reserve), 2001b:31 (in checklist of Sphecidae of Kazakhstan and Central Asia); Mokrousov and Gromenko, 2015:126 (Uzbekistan: 8 km northwest of Mubarek at 39°20'30" N 65°5'3" E); Gadallah, 2020b:46 (in list of aculeate wasps of Arabian Peninsula); Schmid-Egger and van Harten, 2022:568 (in key to *Parapiagetia* of Arabian Peninsula).

## 27. *subpetiolata* (Brèthes)

*Tachysphex subpetiolatus* Brèthes, 1909d:241, ♀. Holotype or syntypes: ♀, Paraguay: Alto Paraguay: Chaco (Buenos Aires). – Schrottky, 1913a:231 (listed); Genise, 1990:27 (depository of type material unknown). – **As *Parapiagetia subpetiolata***: R. Bohart and Menke, 1976:281 (new combination, in checklist of world Sphecidae); Amarante, 2002:34 (in catalog of Neotropical Crabronidae).

**28. *substriatula* (R. Turner)**

*Tachysphex substriatulus* R. Turner, 1917:197, ♀. Holotype: ♀, Pakistan: Punjab: Lahore (BMNH). – As *Parapiagetia substriatula*: Pulawski, 1975a:314 (new combination); R. Bohart and Menke, 1976:281 (in checklist of world Sphecidae); Pulawski, 1977b:614 (in revision of Old World *Parapiagetia*; Oman, Pakistan); Guichard, 1980:228 (Oman); Schmid-Egger, 2011b:565 (United Arab Emirates: Wadi Bih, description of ♂), 568 (color photograph of male), 2014:591 (United Arab Emirates); Gadallah, 2020b:46 (in list of aculeate wasps of Arabian Peninsula); Schmid-Egger and van Harten, 2022:567, 568 (in key to *Parapiagetia* of Arabian Peninsula).

**29. *subtilis* Pulawski**

*Parapiagetia subtilis* Pulawski, 1977b:648, ♂. Holotype: ♂, Namibia: Outjo Province: Bethanie (ZMUC). – Pulawski, 1979b:136 (description of ♀, Namibia); S. Gess and F. Gess, 2003:108 (Namibia, South Africa: visiting flowers of *Triantema parvifolia* E. Mey. ex Sond., Aizoaceae, *Deverra denudata* (Viv.) Pfisterer and Podl., Apiaceae, *Chamaesyce glanduligera* (Pax) Koutnik, Euphorbiaceae, *Gisekia africana* (Lour.) Kuntze and *Limeum argute-carinatum* Wawra and Peyr. and *Limeum myosotis* H. Walter, Molluginaceae), 2006:20 (Namibia, visiting flowers of *Chamaesyce glanduligera* (Pax) Koutnik, Euphorbiaceae).

**30. *tridentata* Tsuneki**

*Parapiagetia tridentata* Tsuneki, 1972e:396, ♀. Holotype: ♀, Mongolia: Bayanhongor Aymag: Ehingol oasis (TMB). – R. Bohart and Menke, 1976:621 (in checklist of world Sphecidae); Pulawski, 1977b:621 (in revision of Old World *Parapiagetia*; southeastern European Russia, Kazakhstan, Transcaspia, Iran, Pakistan, Mongolia, China: Sinkiang); Kazenas, 1978b:138 (in key to Sphecidae of Kazakhstan and Central Asia); Esenbekova and Kazenas, 2000:35 (southeastern Kazakhstan: Borandysu and 3 km northeast of Borandysu, 10 km northwest of Chundzha, 1-2 km north of Kokpet Valley, near Masak); Kazenas, 2001b:31 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:77 (geographic distribution, collecting localities in Kazakhstan), 2004d:32 (Kazakhstan: Atyrau); Shkuratov, 2004a:77 (Russia: Rostov Oblast; “I. Rybosol.”, of unknown location); Hua, 2006:281 (in list of Chinese insects, geographic distribution); Kazenas, 2013b:496 (southeastern Kazakhstan: almost everywhere in Ili River valley); Antropov, 2017b:237 (in catalog of Crabroninae of Russia); Jahantigh, Rakhshani Mokhtari, and Ramroodi, 2017:56 (Iran: known from Khuzestan Province); Can and Gülmez, 2018a:125 (first record from Turkey: Sivas: Çobanlı village at 40°00'54"N 38°35'05"E); Kaplan and Yildirim, 2021:60 (in catalog of Crabronidae of Turkey), 2023:1686 (in checklist of Sphecidae *sensu lato* of Turkey).

*Parapiagetia* sp.: Tsuneki, 1972e:621 (Mongolia), corrected to *Parapiagetia tridentata* by Pulawski, 1977b:621.

**31. *vernalis* Brauns**

*Parapiagetia vernalis* Brauns, 1910a:667, ♀, ♂. Lectotype: ♀, South Africa: Eastern Cape Province: Willowmore (TMP), designated by Pulawski, 1977b:617. – Brauns, 1911a:239 (South Africa, nesting in clay cliff); Arnold, 1922:135 (in revision of South African Sphecidae), 1930:2 (in checklist of Afrotropical Sphecidae); R. Bohart and Menke, 1976:281 (in checklist of world Sphecidae); Pulawski, 1977b:617 (in revision of Old World *Parapiagetia*); Gess, 1981:20 (South Africa: 18 km west-northwest of Grahamstown; probably nesting in friable soils).

**32. *zomba* Pulawski**

*Parapiagetia zomba* Pulawski, 1977b:633, ♀. Holotype: ♀, Malawi: Matumbas near Domira Bay (BMNH).

**sp.**

Pulawski, 1967c:388 (Sudan: Nile second cataract); Myartseva, 1972a:78 (Turkmenistan); Roche, 1981:3 (in checklist of Sphecidae of United Arab Emirates); López García, Mazzitelli, Fruitos, González, Marcucci, Giusti, Alemanno, del Barrio, Portela, and Debandi, 2019:315 (Argentina: Mendoza: departamento de Tupungato: vineyards in Gualtallary); Gadallah, 2020b:46 (in list of aculeate wasps of Arabian Peninsula, three species).

**NOMINA NUDA IN PARAPIAGETIA**

*Parapiagetia crenulata*: Dollfuss, 1989:11 (paratype in NHMW).

*Parapiagetia pulawskii* Kazenas, 1992c:27 (Turkmenistan: Repetek Nature Reserve).