

Last updated: 20 April 2025

PENEPODIUM

Penepodium Menke in R. Bohart and Menke, 1976:90. Type species: *Pepsis luteipennis* Fabricius, 1804, by original designation.

1. albovillosum (Cameron)

Podium albovillosum Cameron, 1888a:26, ♀, ♂. Lectotype: ♂: Panama: Bugaba (BMNH), designated by Menke in R. Bohart and Menke, 1976:92. – Kohl, 1902:71 (in revision of Podiini); Ohl, 1996b:216 (in cladistic analysis of Podiinae). – **As *Sceliphron albovillosum***: Dalla Torre, 1897:378 (new combination, in catalog of world Hymenoptera). – **As *Penepodium albovillosum***: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae); M. Cooper, 1980:89 (collecting resin, examining emergence holes of beetles in dead wood); Hanson and Menke, 1995:637 (known from Panama); Amarante, 2002:69 (in catalog of Neotropical Sphecidae).

2. brasiliense (Schrottky)

Sceliphron brasiliense Schrottky, 1903a:42, ♀. Holotype or syntypes: ♀, Brazil: São Paulo: Jundiáhy, now Jundiá (depository?). – **As *Penepodium brasiliense***: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae, as *brasiliense*); Amarante, 2002:69 (in catalog of Neotropical Sphecidae).

3. complanatum (F. Smith)

Podium complanatum F. Smith, 1856:236, ♀. Holotype or syntypes: ♀, South America: no specific locality (OXUM). – Kohl, 1902:91 (original description copied). – **As *Sceliphron complanatum***: Dalla Torre, 1897:382 (new combination, in catalog of world Hymenoptera). – **As *Penepodium complanatum***: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae); Amarante, 2002:69 (in catalog of Neotropical Sphecidae).

4. distinguendum (Kohl)

Podium distinguendum Kohl, 1902:76, ♀. Syntypes: Brazil: Santa Catarina: Blumenau (NHMW). – **As *Penepodium distinguendum***: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae); Amarante, 2002:69 (in catalog of Neotropical Sphecidae).

5. egregium (de Saussure)

Podium egregium de Saussure, 1867:35, ♀. Syntypes: Uruguay: no specific locality (NHMW). – Kohl, 1902:89 (in revision of Podiini); Strand, 1910a:128 (Paraguay); Schrottky, 1913a:223 (Uruguay). – **As *Sceliphron egregium***: Dalla Torre, 1897:384 (new combination, in catalog of world Hymenoptera); Schrottky, 1903b:123 (in checklist of Hymenoptera of Argentina, Paraguay, and Uruguay); Strand, 1910a:128 (Paraguay). – **As *Penepodium egregium***: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae); Amarante, 2002:69 (in catalog of Neotropical Sphecidae); Buys and Rodrigues, 2014:38 (Brazil: first record from State of Espírito Santo: Linhares); Dollfuss, 2016:1152 (locality records from Argentina).

As *Podium rufipes*: Taschenberg, 1869:425 (Brazil: Lagoa Santa), corrected to *Podium egregium* by Kohl, 1902:89.

6. fallax (Kohl)

Podium fallax Kohl, 1902:80, ♀. Syntypes: Brazil: Rio Grande do Sul: no specific locality (NHMW). – **As *Penepodium fallax***: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae); Dollfuss, 1989:11 (type material in NHMW); Amarante, 2002:69 (in catalog of Neotropical Sphecidae).

7. foeniforme (Perty)

Ammophilus foeniformis Perty, 1833:141, sex not stated. Holotype or syntypes: Brazil: Bahia: Bahia, now Salvador (lost: Diller, 1990:74). – Diller, 1990:74 (type not in Zool. Staatssammlung München). – **As *Podium foeniforme***:

Kohl, 1902:48 (new combination, in revision of Podiini); W. Schulz, 1911b:160 (description of ♂); Cameron, 1912a:427 (Guyana) – **As Sceliphron foeniforme**: Dalla Torre, 1897:385 (new combination, in catalog of world Hymenoptera). – **As Penepodium foeniforme**: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae); Hanson and Menke, 1995:637 (known from Costa Rica); Amarante, 2002:69 (in catalog of Neotropical Sphecidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:669 (in checklist of Mexican Sphecidae).

Podium nitidum Spinola, 1851b:33, ♀, ♂. Lectotype: ♂, Brazil: Pará: Belém (Torino), designated by Menke in R. Bohart and Menke, 1976:92. Tentatively synonymized with *Podium foeniforme* by Kohl, 1902:48, definitely by Zavattari, 1908:5, and W. Schulz, 1911b:160. – F. Smith, 1856:235 (in catalog of Hymenoptera in British Museum); Kohl, 1902:93 (original description copied); Casolari and Casolari Moreno, 1980:110 (specimens in M. Spinola collection, Torino); Pagliano, 2008:538 (specimens in M. Spinola collection, Torino, including lectotype). – **As Sceliphron nitidum**: Dalla Torre, 1897:388 (new combination, in catalog of world Hymenoptera).

Podium nitidum Spinola, 1853:49. Objective synonym of *Podium nitidum* Spinola, 1851.

Podium bellum Cameron, 1888a:28, ♀. Holotype or syntypes: ♀, Panama: Bugaba (BMNH or OXUM). Synonymized with *Podium foeniforme* by Kohl, 1902:48. – Ashmead, 1899d:355 (in checklist of North American Sphecidae). – **As Sceliphron bellum**: Dalla Torre, 1897:379 (new combination, in catalog of world Hymenoptera).

8. *fumipenne* (Taschenberg)

Podium fumipenne Taschenberg, 1869:425, ♀, ♂. Lectotype: ♂, Argentina or Brazil: Paraná (Halle), designated by Menke in R. Bohart and Menke, 1976:92. – Burmeister, 1872:240 (Argentina); Kohl, 1902:88 (in revision of Podiini); Schrottky, 1903b:123 (in checklist of Hymenoptera of Argentina, Paraguay, and Uruguay), 1913a:223 (Argentina: Río Negro, Entre Ríos; Uruguay); Bischoff and von Schulthess, 1937:168 (Paraguay: Lapango on Pilcomayo River). – **As Sceliphron fumipenne**: Dalla Torre, 1897:386 (new combination, in catalog of world Hymenoptera); Schrottky, 1903b:123 (in list of Hymenoptera of Argentina, Paraguay, and Uruguay). – **As Penepodium fumipenne**: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae); Genise, 1981d:51 (nest and prey, use of excrements of rodent *Hydrochoeris hydrochoeris* for nest closure); Amarante, 2002:69 (in catalog of Neotropical Sphecidae); Buys, 2009e:279 (Brazil: recorded from Rio de Janeiro State by Amarante, 2002); Rodrigues and Buys, 2013:214 (Brazil; Espírito Santo: after Amarante, 2002); Buys and Rodrigues, 2014:38 (Brazil: recorded from State of Espírito Santo by Amarante, 2002).

9. *gorianum* (Lepeletier de Saint Fargeau)

Podium gorianum Lepeletier de Saint Fargeau, 1845:324, ♀. Holotype ♀, “Cayenne” [may be entire French Guiana, or department of Cayenne, or city of Cayenne] (originally Serville coll., now M. Spinola coll., Torino). – Spinola, 1853:51 (in review of *Podium*, as *goryanum*); Kohl, 1902:69 (in revision of Podiini); W. Schulz, 1904c:778 (Brazil: São Paulo d'Oliveira), 780 (comparison with *Podium flavipenne*); F. Williams, 1928a:127 (British Guyana and Brazil); Richards, 1937a:106 (Guyana, as *goryanum*); Fernald, 1942:30 (Guyana: Kartabo); Richards, 1937a:106 (cockroach prey); Bradley, 1957:43 (type in Turin); Casolari and Casolari Moreno, 1980:110 (specimens in M. Spinola collection); Pagliano, 2008:538 (holotype in M. Spinola collection, Torino). – **As Sceliphron gorianum**: Dalla Torre, 1897:385 (new combination, as synonym of *Sceliphron flavipenne*). – **As Penepodium gorianum**: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae, as *goryanum*); Nascimento and Overal, 1980:8 (Brazil, Peru); Garcia and Adis, 1993:347 (nesting habits); Hanson and Menke, 1995:637 (known from Costa Rica, as *goryanum*); Amarante, 2002:69 (in catalog of Neotropical Sphecidae); Rasmussen and Asenjo, 2009:15 (in checklist of Crabronidae of Peru); dos Santos, Grandinette, and Noll, 2015:37 (Peru: Ucayali: Pucallpa).

As *Podium luteipenne*: F. Smith, 1856:pl. VI, fig 3 (illustration of habitus), corrected to *Podium gorianum* by Kohl, 1902:69.

As *Podium foeniforme*: Cameron, 1912:427 corrected to *Podium gorianum* by Richards, 1937a:106.

10. *haematogastrum* (Spinola)

Podium haematogastrum Spinola, 1851b:34, ♀, ♂. Syntypes: Brazil: Pará: Belém (Torino). – F. Smith, 1856:235 (in catalog of Hymenoptera in British Museum); Kohl, 1902:90 (in revision of *Podiini*); W. Schulz, 1904c:780 (Brazil, variation); Ducke, 1907b:90 (Brazil: Maranhão State: Alcântara, Codo), 1910:109 (Brazil: Ceará State); Strand, 1910a:127 (Paraguay); W. Schulz, 1911b:160 (study of type, Kohl's interpretation confirmed); Schrottky, 1913a:223 (Paraguay); F. Williams, 1928a:124 (nesting habits); Snodgrass, 1941:50 (male genitalia); Casolari and Casolari Moreno, 1980:110 (specimen in M. Spinola collection, Torino); Ohl, 1996b:216 (in checklist of world *Podium*); Pagliano, 2008:538 (unpublished lectotype in M. Spinola collection, Torino). – **As *Sceliphron haematogastrum***: Dalla Torre, 1897:386 (new combination, in catalog of world Hymenoptera); W. Fox, 1897b:373 (Brazil, diagnostic characters); Strand, 1910a:127 (Paraguay). – **As *Penepodium haematogastrum***: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae); Nascimento and Overal, 1980:8 (Brazil); Ohl, 1996b:216 (in cladistic analysis of *Podiinae*); Amarante, 2002:69 (in catalog of Neotropical Sphecidae); Rasmussen and Asenjo, 2009:15 (in checklist of Crabronidae of Peru); Silvestre, Demétrio, Trad, de Oliveira Lima, Auko, and de Souza, 2014:70 (Brazil: Mato Grosso do Sul: dry forests in Bodoquena Mountain Range and Brazilian Chaco); Dollfuss, 2016:1152 (Bolivia: Nuno de Chavez: Ascensión, as Senegal); Trad and Silvestre, 2017:4 (Brazil: Mato Grosso do Sul).

Podium haematogastrum Spinola, 1853:50. Objective synonym of *Podium haematogastrum* Spinola, 1851.

Podium consanguineum F. Smith, 1856:235, ♀. Holotype or syntypes: ♀, South America: no specific locality (BMNH). Synonymized with *Podium haematogastrum* by Menke in R. Bohart and Menke, 1976:92. – Kohl, 1902:92 (original description copied). – **As *Sceliphron consanguineum***: Dalla Torre, 1897:382 (new combination, in catalog of world Hymenoptera); W. Fox, 1897b:373 (Brazil: Chapada and Rio de Janeiro).

11. *hortivagans* (Strand)

Sceliphron hortivagans Strand, 1910a:128, ♂. Holotype: ♂, Paraguay: Asunción (ZMHU). – Strand, 1927:254 (in list of species described by the author). – **As *Penepodium hortivagans***: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae); Amarante, 2002:69 (in catalog of Neotropical Sphecidae).

12. *junonium* (Schrottky)

Sceliphron junonium Schrottky, 1903a:41, ♂. Holotype or syntypes: ♂, Brazil: São Paulo: Jundiahy, now Jundiá (depository?). – **As *Penepodium junonium***: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae); Amarante, 2002:69 (in catalog of Neotropical Sphecidae).

13. *latro* (Kohl)

Podium latro Kohl, 1902:74, ♀. Syntypes: ♀, Brazil: Santa Catarina: no specific locality (NHMW). – Schrottky, 1913a:223 (Paraguay). – **As *Penepodium latro***: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae); Dollfuss, 1989:11 (type material in NHMW); Amarante, 2002:69 (in catalog of Neotropical Sphecidae); Buys, 2006a:121 (nesting habits, description of mature larva), 2009e:279 (Brazil: Rio de Janeiro: Angra dos Reis), 2020b:80 (in cladistic analysis of larvae of Sphecidae s.s.).

14. *luteipenne* (Fabricius)

Pepsis luteipennis Fabricius, 1804:210, sex not stated. Lectotype: ♀, South America: no specific locality (ZMUC), designated by van der Vecht, 1961a:44. – **As *Pepsis luteipenne***: Dahlbom, 1845:XXI (new combination, specimens in collection Fabricius are *Podium luteipenne*). – **As *Podium luteipenne***: Dahlbom, 1843:23 (new combination, redescription), 1845:435 (in key to *Podium*); Lepeletier de Saint Fargeau, 1845:324 (in revision of world Hymenoptera); Spinola, 1851:51 and 1853:51 (as junior synonym of *Podium flavipenne*, authorship mistakenly attributed to Lepeletier de Saint Fargeau); F. Smith, 1856:235 (in catalog of Hymenoptera in British Museum, as *luteipennis*), nec pl VI, fig 3 (illustration of habitus = *Penepodium gorianum*); Cameron, 1888a:27 (Panama); Kohl, 1902:69 (as synonym of *Podium gorianum*); Richards, 1937a:106 (Guyana); van der Vecht, 1961a:43 (redescription of holo-

type); Casolari and Casolari Moreno, 1980:110 (specimens in M. Spinola collection, Torino); Ohl, 1996b:216 (in checklist of world *Podium*); Pagliano, 2008:537 (specimens in M. Spinola collection, Torino). – **As *Sceliphron luteipenne***: Dalla Torre, 1897:381 (new combination, in catalog of world Hymenoptera). – **As *Penepodium luteipenne***: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae); Nascimento and Overal, 1980:8 (Brazil); Brockmann, 1985b:312 (nest closure summary); Radović, 1985:64 (sting apparatus analyzed); Hanson and Menke, 1995:637 (known from Panama); Ohl, 1996b:216 (in cladistic analysis of *Podiinae*); Amarante, 2002:69 (in catalog of Neotropical Sphecidae); Buys, 2009a:33 (larval behavior and development), 2009e:279 (Brazil: Rio de Janeiro: Niterói, Petrópolis, Silva Jardim; nesting habits), 2011d:99 (nesting exclusively in shaded areas from November to May, and exclusively in exposed area from June to October), 2012a:24 (nesting habits); Rodrigues and Buys, 2013:214 (Brazil; first record from Espírito Santo: Santa Teresa); Buys and Rodrigues, 2014:39 (Brazil: first record from State of Espírito Santo: Santa Teresa); Buys and Antunes, 2015:131 (nesting behavior).

Podium flavipenne Latreille, 1809:59, sex not stated. Holotype or syntypes: “Cayenne” [may be entire French Guiana, or department of Cayenne, or city of Cayenne] (lost). Synonymized with *Podium luteipenne* by Lepeletier de Saint Fargeau, 1845:324. – Guérin-Ménéville, 1828b:95 (in Dictionnaire classique d’histoire naturelle); Spinola, 1851:51 and 1853:51 (in key to *Podium*, authorship mistakenly attributed to Fabricius); Kohl, 1902:84 (in revision of *Podiini*); W. Schulz, 1904c:779 (questioned determination of W. Fox, 1897); Cameron, 1912a:427 (Guyana); F. Williams, 1928a:118 (nesting habits); G. Carpenter, 1930b:298 (nest closure); Evans and Lin, 1956a:151 (discussion of Williams’s, 1928a:121 description of larva); Piek and Spanjer, 1986:188 (in list of Sphecidae with known prey). – **As *Sceliphron flavipenne***: Dalla Torre, 1897:381 (new combination, in catalog of world Hymenoptera); W. Fox, 1897b:373 (Brazil: Rio de Janeiro and Santarém). – **As *Dynatus flavipennis***: Casolari and Casolari Moreno, 1980:110 (new combination, specimen in M. Spinola collection, Torino); Pagliano, 2008:537 (specimen in M. Spinola collection, Torino).

Podium latreillei Spinola, 1853:51 (as *Latreillei*, incorrect original capitalization). Unnecessary substitute name for *Podium flavipenne* of Latreille, 1809. Synonymized with *Podium luteipenne* by F. Smith, 1856:235. – Casolari and Casolari Moreno, 1980:110 (specimens in M. Spinola collection, Torino); Pagliano, 2008:538 (specimen in M. Spinola collection, Torino).

Podium dubium Taschenberg, 1869:427, ♀. Lectotype: ♀, Brazil: Nova Friburgo (Halle), designated by Menke in R. Bohart and Menke, 1976:86. Synonymized with *Penepodium luteipenne* by Menke in R. Bohart and Menke, 1976:86. – Kohl, 1902:86 (in revision of *Podiini*); F. Williams, 1928a:126 (Brazil: Nichteroy near Rio de Janeiro, now Niterói); Buys, 2001:329 (description of last instar larva), 2020b:80 (in cladistic analysis of larvae of Sphecidae s.s.). – **As *Sceliphron dubium***: Dalla Torre, 1897:384 (new combination, in catalog of world Hymenoptera).

15. *mocsaryi* (Kohl)

Podium mocsaryi Kohl, 1902:73, ♀ (as *Mocsáryi*, incorrect original capitalization and diacritic mark). Holotype: ♀, South America: no specific locality (TMB). – Richards, 1937a:106 (Guyana). – **As *Penepodium mocsaryi***: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae); Amarante, 2002:69 (in catalog of Neotropical Sphecidae); Rasmussen and Asenjo, 2009:15 (in checklist of Crabronidae of Peru).

16. *pauloense* (Schrottky)

Sceliphron pauloense Schrottky, 1903a:42, ♀ (as *pauloënse*, incorrect original diacritic mark). Holotype or syntypes: ♀, Brazil: São Paulo: Jundiahy, now Jundiaí (depository?). – **As *Penepodium pauloense***: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae); Amarante, 2002:69 (in catalog of Neotropical Sphecidae).

17. *princeps* (Kohl)

Podium princeps Kohl, 1902:83, ♀. Syntypes: “Cayenne” [may be entire French Guiana, or department of Cayenne, or city of Cayenne] (ZMHU). – **As *Penepodium princeps***: Menke in R. Bohart and Menke, 1976:92 (new combina-

tion, in checklist of world Sphecidae); Amarante, 2002:69 (in catalog of Neotropical Sphecidae); Rasmussen and Asenjo, 2009:15 (in checklist of Crabronidae of Peru); Dollfuss, 2016:1152 (Paraguay: Carlos Pfanni).

18. *romandinum* (de Saussure)

Podium romandinum de Saussure, 1867:35, ♀. Syntypes: Brazil: Amazon area: no specific locality (NHMW). – Kohl, 1902:81 (in revision of Podiini). – **As *Sceliphron romandinum***: Dalla Torre, 1897:389 (new combination, in catalog of world Hymenoptera); W. Fox, 1897b:373 (Brazil: Santarém). – **As *Penepodium romandinum***: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae); Dollfuss, 1989:11 (type material in NHMW); Amarante, 2002:69 (in catalog of Neotropical Sphecidae); Rasmussen and Asenjo, 2009:15 (in checklist of Crabronidae of Peru); dos Santos, Grandinette, and Noll, 2015:37 (Peru: Ucayali: Pucallpa).

19. *spretum* (Kohl)

Podium spretum Kohl, 1902:79, ♀. Holotype: ♀, Brazil: no specific locality (ZMHU). – **As *Penepodium spretum***: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae); Amarante, 2002:69 (in catalog of Neotropical Sphecidae); Buys, 2009e:279 (Brazil: recorded from State of Rio de Janeiro by Amarante, 2002); Buys and Rodrigues, 2014:39 (Brazil: first record from State of Espírito Santo: Linhares).

20. *taschenbergi* (Kohl)

Podium taschenbergi Kohl, 1902:87, ♀ (as *Taschenbergi*, incorrect original capitalization). Holotype: ♀, Brazil: Nova Friburgo (Halle). – **As *Penepodium taschenbergi***: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae); Amarante, 2002:69 (in catalog of Neotropical Sphecidae); Buys, 2009e:279 (Brazil: recorded from State of Rio de Janeiro by Kohl, 1902, and by Amarante, 2002).

21. *triste* (Kohl)

Podium egregium var. *triste* Kohl, 1902:90, ♀, ♂. Syntypes: Brazil: Rio Grande do Sul (NHMW). – **As *Penepodium triste***: Menke in R. Bohart and Menke, 1976:92 (new combination, new status, in checklist of world Sphecidae); Amarante, 2002:69 (in catalog of Neotropical Sphecidae).

22. *viduatum* (Kohl)

Podium viduatum Kohl, 1902:82, ♂. Holotype: ♂, Brazil: Pernambuco (NHMW). – **As *Penepodium viduatum***: Menke in R. Bohart and Menke, 1976:92 (new combination, in checklist of world Sphecidae); Amarante, 2002:69 (in catalog of Neotropical Sphecidae).

sp.

Starr and Hook, 2003:22 (in catalog of Aculeata of Trinidad, West Indies); Field, Ohl, and Kennedy, 2011:734 (in molecular cladistic analysis of Ammophilini); Silvestre, Demétrio, Trad, de Oliveira Lima, Auko, and de Souza, 2014:70 (Brazil: Mato Grosso do Sul: dry forests in Bodoquena Mountain Range and Brazilian Chaco, four species); Dollfuss, 2016:1152 (Argentina); Trad and Silvestre, 2017:4 (Brazil: Mato Grosso do Sul, four species); Field, Gonzalez-Voyer, and Boulton, 2020:7 (evolution of parental care).