Mamoru Terayama*

Abstract Keys to the 64 world genera in 6 subfamilies are provided. Genera *Homoglenus* and *Procaryoza* are synonymized with genera *Epyris* and *Anisepyris*, respectively. Genus *Bradepyris* in the subfamily Epyrinae is transferred to the subfamily Mesitiinae.

Introduction

Following the new format of higher classification of the Family Bethylidae as shown in the part I, keys to the subfamilies, tribes, and genera of world Bethylidae are provided.

The style of keys follow that of Goulet and Huber (1993). Each set of entries is called a couplet. One to several characters are used separately in each couplet; opposing conditions for eac character are given as 1a versus 1aa, b versus bb, and so on.

The zoogeographical distribution for each genus is shown in parentheses. Ambiguous genera are excluded in the keys to avoid the unnecessary confusions. The reasons for exclusion from the keys are, 1) lack of the types or voucher specimens, most of which were presumably lost, 2) insufficient information due to the poor original descriptions. The abbreviations of zoogeographic regions as follows: PAL, Palaearctic Region; ORI, Oriental Region; AUS, Australian Region; ETH, Ethiopian Region; Nea, Nearctic; NET, Neotropical Region.

New synonymies and genus transferred

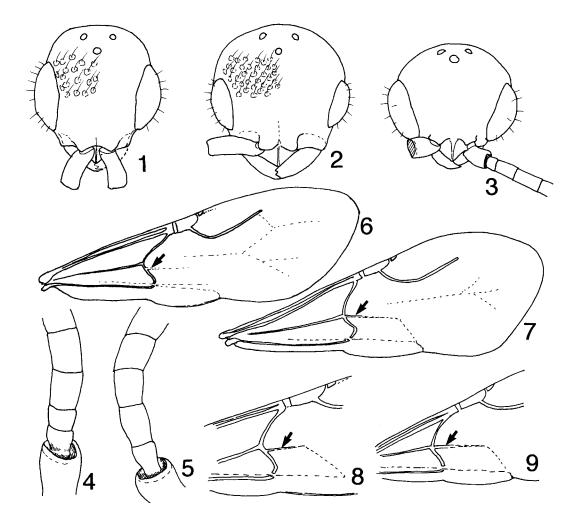
1. Genus Epyris Westwood, 1832. Genus Homoglenus Kieffer, 1905. Syn. nov.

The generic character of *Homoglenus* is the presence of nebulous m-cu vein of forewings (Figs. 7-9) and no other distinct character to separate it from *Epyris* in known. This condition should not be useful to peparate the genera, since the vein is completely absent to weakly recognizable (Fig. 6) in *Epyris*. The extremely long parameres of male genitalia of *Homoglenus* (Benoit, 1957) also suggest that this is phylogenetically related to the dodecatomus-group or staphylinoides-group of the genus *Epyris*. The seven species including a fossil are transferred to genus *Epyris*: *E. bifossatus* (Brues) comb. nov., *E. indicus* (Kieffer) comb. nov., *E. montanus* Kieffer comb. rev., *E. punctatus* (Kieffer) comb. nov., *E. quadripartitus* (Benoit) comb. nov., *E. sanctus* (Turner) comb. nov., and *E. tripartitus* (Kieffer) comb. nov.

2. Genus Anisepyris Kieffer, 1905. Genus Procaryoza Kieffer, 1905. Syn. nov.

The genus *Procalyoza* is distinguished from *Anisepyris* by the ramose antennae and the glabrous eyes (Figs. 10-12). However, there should not be reliable generic characters to define the genus as Krombein (1992) synonymized *Calyoza*, *Calyozella*, and *Paracalyoza* with *Epyris* and also Evans suggested (1964). *Procaryoza westwoodi* is transferred to the genus *Anisepyris*: *A. westwoodi* (Cameron) comb. nov.

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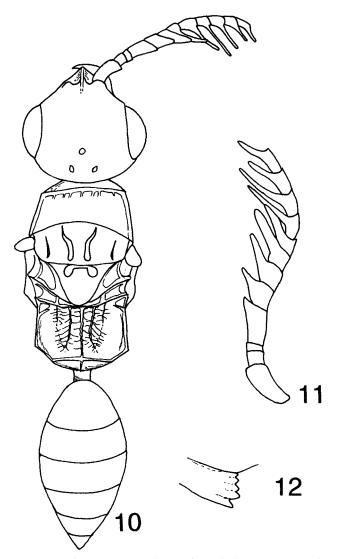
Figs. 1-9. Homoglenus spp. (1-5, 7-9) and Epyris sp. from Indonesia (6). 1, 4, 7, H. punctatus Kieffer (drewn from holotype); 2, 5, 8, H. montanus (Kieffer) (drawn from holotype); 3, 9, H. indicus (Kieffer) (drawn from holotype). 1-3, head, full face view; 4, 5, 2nd to 5th segments of antenna; 6-9, forewing, arrows indicate m-cu vein.

3. Genus Bradepyris Kieffer, 1905

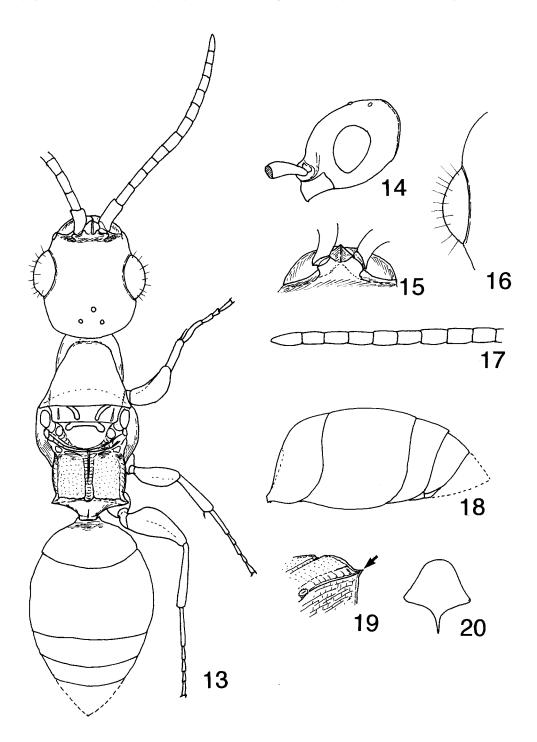
This genus consists of 5 species, of which a single species *B. inermis* Kieffer is examined (Figs. 13-20). The following characters suggest that this species belongs to the subfamily Mesitiinae though this has few punctures on the surfaces of head and mesosoma: 1) posterolateral corner of propodeum with a short, but distinct spine; 2) second gastral tergite large; 3) basal median portion of propodeum with a carina

which extends to the metanotum; 4) eye strongly convex and with erect hairs; 5) notauli large and strongly curved outward.

As I could not examine the type species, *B. apterus* Kieffer, of which the place of type deposition is not known, I provisionally treat this genus as a member of Mesitiinae.



Figs. 10-12. *Procalyoza westwoodi* (Cameron), drawn from holotype. 10, Body, dorsal view; 11, right antenna (apical segment missing); 12, right mandible.



Figs. 13-20. *Bradepyris inermis* Kieffer, drawn from holotype. 13, Body, dorsal view; 14, head, lateral view; 15, clypeus; 16, eye; 17, antenna; 18, gaster, lateral view; 19, propodeal spine (arrow); 20, subgenital plate.

Outline of distribution pattern

Table 1 indicated the number of extant genera arranged by subfamily in six zoogeographical regions. The geographic distribution pattern of the Mesitiinae is unique in Bethylidae: 1) it has not been found in the New World and the Australian Region; 2) the largest generic diversity is seen in the Palaearctic Region. On the other hand, the subfamilies Bethylinae, Epyrinae and Pristocerinae have been recorded from all zoogeographical regions. Morphologically, Mesitiinae is compact and not diverse. These distributional and morphological features suggest that Mesitiinae is recently developed among the bethylid subfamilies. It is interesting that this subfamily has the highest genus number in the Palaearctic Region, while the other subfamilies are prospering in the tropics.

Table 1. Number of genera in each subfamily by zoogeographical regions.

Figures in parentheses are endemic genera. In case where no published record is available but the author has reliable information, those are included in this table.

PAL: Palaearctic Region, ORI: Oriental Region, AUS: Australian Region, ETH, Ethiopian Region, NEA: Nearctic Region, NET: Neotropical Region.

				Region	l			
Subfamilies	PAL	ORI	AUS	ETH	NEA	NET	Total	
Pristocerinae	6(1)	9(2)	1(0)	16(10)	5(0)	5(0)	20	
Parapenesiinae				1(1)			1	
Epyrinae	15(3)	23(6)	8(0)	15(0)	17(0)	19(2)	39	
Galodoxinae		1(1)					1	
Mesitiinae	10(6)	5(0)		6(2)			13	
Bethylinae	5(0)	4(0)	4(1)	2(0)	3(0)	3(1)	7	
Tatal	36(10)	43(9)	13(1)	40(13)	25(0)	27(3)	82	

Key to subfamilies of Bethylidae

1a, Propodeum with distinct spines at dorsal posterolateral corners; b, second metasomal segment large, accounting for considerably more than half the length of the metasoma in dorsal view..... Mesitiinae 1aa, Propodeum without spine at dorsal posterolateral corners; bb, second metasomal segment much

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single genus Parapenesia Kieffer [ETH; South Africa] and is known from female only]

4a, Metanotum of male developed, scutellum and propodeum not nearly contact medially; b, metanotum with a small fovea at middle; c, females completely apterous; d, eye of females small to absent, eye height at most 0.25 times head width Pristocerinae

5a, Basal vein of forewing simple, not giving rise to a vein or stub; b, tarsal claws weakly to moderately curved; c, frons without longitudinal median carina or polished streak extending from clypeus.... Epyrinae

Key to genera of subfamily Pristocerinae

1a, Male; fully winged, tegla present
1aa, Female; apterous, tegla absent
(Male)
2a, Subgenital plate deeply divided into two lobes
2aa. Subgenital plate simple, posterior margin at most weakly concave, and never deeply divided into
two lobes7
3a, Head in lateral view with an acute spine at gena 4
3aa, Genal area without spine
4a, Mandible sickle-shaped Stadelmann
[ETH]
4aa, Mandibie more or less triangular with several teeth on masticately margin; basalmost tooth
directed inward Neodicrogenium Benoit [ETH]
5a, Mandible sickle-shaped, with 2 apical teeth only Diepyris Benoit [ETH]
5aa, Mandible triangular with 3-6 teeth; basalmost tooth directed inward
6a, Cubital and subdiscoidal veins of forewing reaching the wing margin; b, median vein of
hindwing weak but distinct and reaching the wing margin
6aa, Cubital and subdiscoidal veins of forewing barely visible, not reaching the wing margin; bb,
median vein of hindwing obscure to absent and not reaching the wing margin Pristocera Klug
[ETH, ORI, PAL]
7a, Head truncated anteriorly; b, pterostigma exceptionally large; c, posterior margin of subgenital
plate with a lamellar lobe Prosapenesia Kieffer [ETH]
7aa, Head not truncated anteriorly; bb, pterostigma moderate in size or absent; cc, posterior margin of
subgenital plate simple, without a lamellar lobe
8a, Pterostigma obscure
8aa, Pterositigma distinct
9a, Second gastral tergite with a pair of spots, pits or depressions Dissomphalus Ashmead

[PAL, ORI, ETH, NEA, NET]
9aa, Second gastral tergite without modification 10
10a, Posterolateral margin of 2nd gastral tergite strongly concave; b, 3rd gastral tergite with a pair of
spots Trichiscus Benoit [ETH]
10aa, Psterior margin of 2nd gastral tergite without modification; bb, 3rd gastral tergite simple,
without spots
11a, Propodeum long, more than twice as long as wide; b, scutellar disc elongate, more than twice as
long as wide; c, 1st gastral tergite long, more than 1.5 times as long as wide in dorsal view Afrocera
Benoit [ETH]
11aa, Propodeum less than twice as long as wide; bb, scutellar disc shorter, less than twice as long as
wide; cc, 1st gastral tergite less than 1.3 times as long as wide in dorsal view 12
12a, Anterior margin of clypeus trapezoidal and truncate apically; b, eye densely coverred with hairs;
c, genitalia with the parameres deeply divided into two lobes Pseudisobrachium Kieffer
[PAL, ORI, ETH, NEA, NET]
12aa, Anterior margin of clpeus various, but not trapezoidal; bb, eye glabrous, or only scattered with
short hairs; cc, genitalia with parameres not deeply divided into two lobes
13a, Notauli absent or nearly so 14
13aa, Notauli complete or nearly so 15
14a, Clypeus strongly produced; b, head longer than wide; c, pronotum usual in size
Protisobrachium Benoit [ETH, ORI]
14aa, Anterior margin of clypeus not remakably produced; bb, head wider than long; cc, pronotum
extremely short Neoapenesia Terayama [ORI]
15a, Ocelli forming a flat triangle and situated almost near the occipital margin; b, postmarginal vein
absent
15aa, Ocelli more or less forming a right triangle, situated far form the occipital margin; bb,
postmarginal vein present
16a, Anterior margin of clypeus with a single median projection Parascleroderma Kieffer
[PAL, ORI, ETH, NEA, NET]
16aa, Anterior margin of clypeus with 3 small projectionsAfgoiogfa Argaman [ETH]
17a, Median lobe of clypeus depressed near antennal insertion; b, basalmost tooth of mandible
directed inward; c, cuspis simple, not divided nor setose; d, paramere consisting of 3 valves Acrepyris
Kieffer [PAL, ORI, NEA, NET]
17aa, Median lobe of clypeus not depressed near antennal insertions; bb, basalomost tooth of
mandible triangular, not directed inward, or mandible with an apical tooth only; cc, cuspis divided into two
arms, dorsal arm simple and ventral one setose (except in a few species); dd, paramere simple, not
consisting of 3 valves Apenesia Westwood [PAL, ORI, AUS, ETH, NEA, NET]

(Female; known in 8 genera only)

18a, Body extremelly flat dorsoventrally	
18aa, Body at most only weakly flattened	
19a, Base of pronotum in contact with base of	f scutellum in dorsal view Parascleroderma
Kieffer [PAL, ORI, ETH, NEA, NET]	

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21a, Tip of median lobe of clypeus truncate and thickended; b, eye absent Prosapenesia Kieffer [ETH]

23a, Propodeal constriction strong; maximum width of propodeum at least twice at constriction; b, eye large, consisting of more than 15 facets (with a few exception) *Pristocera* Klug [PAL, ORI, ETH]/ *Acrepyris* Kieffer [PAL, ORI, NEA, NET]

Genera excluded in this key: Anisobracgium Kieffer, Apristocera Kieffer, Usakosia Kieffer.

Key to tribes and genera of Subfamily Epyrinae

1a, Antenna with 13 segments (2nd or 3rd segment very small but visible in some species); b, clypeus with a projecting median lobe; c, eye situated laterally on head; d, PF = 6-5, 3-2 ... 2 (Tribe Epyrini)

 1aa, Antenna with 13 segments; bb, clypeus short, truncate apically; cc, eye situated forward on head;

 dd, PF = 6-5, 3-2

 13 (Tribe Sclerodermini)

(Tribe Epyrini)

[NEA, NET]

6aa, Pronotum with its posterior part elevated and prdonged arcuately backward so as to overlie the

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base of the nesoscutum
7a, Notauli absent For the second seco
7aa, Notauli present Epyris Westwood [PAL, ORI, AUS, ETH, NEA, NET]
8a, Clypeus with 3 prominent lobes; b, basal vein reaching subcosta based of pterostigma by
approximately the length of pterostigma Holepyris Kieffer [PAL, ORI, AUS, ETH, NEA, NET]
8aa, Clypeus with only a median lobe developed; bb, basal vein reaching subcosta close to base of
pterostigma
9a, Radial vein very short, at most sligtly longer than basal vein
9aa, Radial vein long, distinctly longer than basal vein 11
10a, Large pterostigma present; b, prostigma present; c, fore tarsus with a lake Disepyris
Kieffer [PAL, ORI, ETH]
10aa, Pterostigma usual in size to small; bb, prostiguma absent; cc, fore tarsus without
lake Laelius Ashmead [PAL, ORI, ETH]
11a, Pronotal disc without transverse carina in front, its sides not sharp or carinate
11aa, Pronotal disc with a transverse carina in front, its sides sharply set off and also
carinate Anisepyris Kieffer [NEA, NET]
12a, Transverse foveae present on posterior portion of pronotum; b, mesonotum with a transverse
foveae at midlength; c, transverse groove of scutellum broa Undescribed genus [ORI; Terayama, in prep.]
12aa, Transverse foveae absent on posterior portion of pronotum; bb, mesonotum without transeverse

(Tribe Sclerodermini)

13a, Mandible thin and elongate, terminating in 2-3 teeth; b, head rectangular, with parallel sides in
full face view
13aa, Mandible thick and broad; bb, head with more or less convex sides in full face view
14a, Wings fully developed; b, notauli distinct Allobethylus Kieffer [PAL, ORI, AUS, NEA, NET]
14aa, Wings reduced, not reaching the posterior margin of propodeum; bb, notauli obscure
Bethylopsis Fouts [Marquesas Isls.; known from a female only]
14a, Gastral sternites 4-6 deeply bimarginate, with broad median apical plates and narrower lateral
plates
14aa, Gastral sternites 4-6 simple or their margins shallowly sinuate
15a, Body extremely depressed dorsoventrally
15aa, Body at most weakly depressed dorsoventrally17
16a, Costal vein and costal cell present; b, median vein dividing median and submedian cells; c,
radial vein long
16aa, Costal vein and costal cell obscure; bb, median vein short, median and submedian cells not
completely separated by a median vein; cc, radial vein short
17a, Mandible with 7 small teeth, upper margin denticulate in female; b, mandible with 5 teeth in
male Glenosema Kieffer [PAL, ORI, AUA, ETH, NEA]
17aa, Mandible with 2-3 teeth, upper margin without denticule in female; bb, mandible with 2-3 teeth
in male
18a, Pterostigma large and circular; b, head very large, wider than long, much wided than maximum
width of mesosoma in dorsal view; c, fully winged in both sexes Chilepyris Evans [NET, AUS]

18aa, Pterostigma smaller and longer than wide; bb, head slightly wider than long, almost as long as wide or only slightly wider than maximum width of thorax; cc, winged and apterous froms present in both

19a, 4th and 5th gastral terga each with a pair of blunt teeth; b, parapsidal furrows well developed Discleroderma Kieffer [ORI]

19aa, Gasteral terga simple, without tooth; bb, parapsidal furrows absent or only weakly indicated Sclerodermus Latreille [PAL, ORI, AUS, ETH, NEA, NET]

(Tribe Cephalonomiini)

20a, Antenna with 10 segments; b, winged and brachypterous froms present in both sexes Acephalonomia Strejcek [PAL]

20aa, Antenna with 12 segmants; bb, wings various
21a, Notauli present; b, anal vein present Undescribed genus [PAL; Terayama, in prep.]
21aa, Notauli absent; bb, anal vein various, absent to distinct
22a, Median vein broadest at the midlength; b, anal vein present Israelius Richards [PAL, ORI]
22aa, Median vein almost with the same width from anterior to posterior end, not broaden at the
midlength, or median vein obscure; bb, anal vein obscure to absent
23a, Radial vein absent; b, wings frequently absent or much reduced Cephalonomia Westwood
[PAL, ORL NEA, NET]

[P

24a, Frons produced below a nasus which overlises the antennal insertions and clypeus Prorops Waterston [PAL, ORI, NEA, NET]

24aa, Frons simple, not produced below Plastanoxus Kieffer [PAL, ORI, NEA]

Genera excluded in this key:

Tribe Epyrini; Leptepyris Kieffer, Neodisepyris Kurian (Provisional; possible junior synonym of Holepyris Kieffer), Planepyris Kieffer, Neurepyris Kieffer, Melanepyris Kieffer (Provisional; possible junior synonym of Epyris Westwood), Pristepyris Kieffer, Triglenus Marshall, Trissepyris Kieffer, Xenepyris Kieffer.

Tribe Sclerodermini; Ateleopterus Fouts, Pararhabdepyris Gorbatovsky.

Key to genera of subfamily Mesitiinae

1a, Pronotum with a distinct longitudinal furrow which is at least partly developed
1aa, Pronotum without longitudinal furrow9
2a, Propodeum without sublateral carinae in both sexes and discal carinae in the female
Clytrovorus Nagy [PAL]
2aa, Propodeum with sublateral and discal carinae
3a, Median carina of clypeus dilated and spoon-like anteriorly Mesitius Spinola [PAL]
3aa, Median carina of clypeus simple, not dilated anteriorly 4
4a, First and 2nd gastral terga covered with pale yallowish gold and black hairs abundantly
Pilomesitius Móczár [ETH]
4aa, Gastral terga with hairs sparsely to moderately
5a, Head much longer than wide; b, lateral margin of pronotum strongly concave in dorsal view; c,
eye relatively small Parvoculus Móczár [ETH]

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5aa, Head slightly longer than wide; bb, lateral margin of pronotum straight or at most weakly
concave in dorsal view; cc, eye larger
6a, Median furrow of mesonotum indistinct or absent Heterocoelia Dahlbom [PAL, ETH, ORI]
6aa, Median furrow of mesonotum distinct, at least on the posterior portion7
7a, Head and pronotum only superficially punctate, usually alitaceous-microreticulate Metrionotus
Móczár [AL, ETH, PAL]
7aa, Head and pronotum deeply, densely or coarsely rugose, and extremely densely punctate
8a, Second gastral tergite deeply and densely punctate; interspaces narrower than punctures at the
densest part Pycnomesitius Móczár [ETH, ORI]
8aa, Punctures on the 2nd gastral tergite much shallower; interspaces everywhere larger than
punctures
9a, Median carina and inner lateral carinae of propodeum parallel; b, outer lateral carina present only
basally on propodeal disc Pseudomesitius Duchaussoy [PAL]
9aa, Median carina and inner lateral carinae of propodeum not parallel; bb, outer lateral carina of
propodeal disc complete, reaching transverse carina
10a, Pronotum with punctures; b, mesonotum with a short longitudinal furrow Incertosulcus
Móczár [PAL, ORI]
10aa, Pronotum smooth, without distinct punctures; bb, mesonotum without longitudinal furrow
11

 11a, Propodeal disc without lateral carinae
 Bradepyris Kieffer [PAL]

 11aa, Propodeal disc with distinct lateral carinae
 Anaylax Móczár [PAL]

Genus excluded in this key: Codorcas Nagy

Key to genera of subfamily Bethylinae

1a, Forewing with 6 closed cells; marginal and submarginal cells closed; b, notauli present
1aa, Forewing with at most 5 closed cells; closed marginal and submarginal cells absent; bb, notauli
absent
2a, Propodeum with a median longitudinal carina; b, pterostigma broad; c, marginal cell
shorter
2aa, Propodeum without median longitudinal carina; bb, pterostigma thin; cc, marginal cell longer,
the length more than 1.5 times its width Lytopsenella Kieffer [NET]
3a, Marginal cell closed Sierola Cameron [PAL, ORI, AUS, NEA; abundant on the Hawaiian
Islands]
3bb, Marginal cell open apically 4
4a, Antenna with 12 segments; b, basal vein forming almost a right angle, its portion appearing as a
continuation of the median vein; c, transverse median vein far basaed of the apparent basal vein; d, fully
winged, but brachypterous or micropterous in a few species Bethylus Latreille [PAL, ORI, NEA]
4aa, Antenna with 13 segments; bb, basal vein oblique, only slightly angled, leaving median vein at
about the same point as the transverse median vein; cc, transverse median vein near based of the apparent
basal vein; dd, always fully winged5

5a, Prostigma large, forming a subtriangle; b, median carina of clypeus short, extending up to the frons at most for short distance; c, Rs + m vein shorter than rs vein *Goniozus* Förster

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[PAL, ORI, AUS, ETH, NEA, NET]

5aa, Prostigma small, not forming a triangle; bb, median carina of clypeus long, continueing on well
up to the frons; cc, Rs + m vein shorter than rs
6a, Complete median carina of propodeum present; b, base of propodeal disc with a pair of small pits
at the outer portion
6aa, Median carina of propodeum absent; bb, base of propodeal disc with a pair of pits at the extreme
base medially Prosierola Kieffer [NEA, NET]

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Appendix. List of genea on the subfamily Bethylidae.

#: genera lack of the types or voucher specimens, most of which were presumably lost.

Family Bethylidae

Subfamily Pristocerinae = Subfamily Afgoiogfinae

Afgoiogfa Argaman 1988; Afrocera Benoit 1983; Anisobrachium Kieffer 1905#; Apenesia Westwood 1874 = Propristocera Kieffer 1905 = Aeluroides Tullgren 1904 = Cleistepyris Kieffer 1910 = Dipristocera Kieffer 1914 = Neopristocera Benoit 1957; Apristocera Kieffer 1914#; Caloapenesia Terayama 1995; Dicrogenium Stadelmann 1894 = Nomineia Kieffer 1911; Diepyris Benoit 1957; Dissomphalus Ashmead 1893 = Ecitopria Wasmann 1899 = Thaumatepyris Kieffer 1919 = Glenobethylus 1910 = Parecitopria Ogloblin 1930 = Psilobethylus Kieffer 1906; Kathepyris Kieffer 1907; Neodicrogenium Benoit 1957; Neoapenesia Terayama 1995;

Parascleroderma Kieffer 1904 = Ceratepyris Kieffer 1905; Pristocera Klug 1808 = Mangesia Kieffer 1911 = Trichelobrachium Kieffer 1914; Acrepyris Kieffer 1905 = Neopristocera Yasumatsu 1955; Pseudisobrachium Kieffer 1904 = Monepyris Kieffer 1905 = Xestobethylus Cameron 1909 = Plutobethylus Kieffer 1910 = Lyssepyris Kieffer 1913 = Afrisobrachium Benoit 1957 = Xantepyris Kieffer 1913 = Xanthepyris Kieffer 1914 (Unjustified emendation) = Parisobrachium Kieffer 1914 = Pseudoisobrachium Ogloblin 1925 (Unjustified emendation) = Edapholigon Ogloblin 1963; Prosapenesia Kieffer 1910 = Neusakosia Benoit 1981; Protisobrachium Benoit 1956; Usakosia Kieffer 1914#

Subfamily Parapenesiinae

Parapenesia Kieffer 1910

Subfamily Epyrinae

Tribe Epyrini

Anisepyris Kieffer 1905 = Lophepyris Evans 1959 = Procalyoza Kieffer 1905; Aspidepyris Evans 1964; Bakeriella Kieffer 1910; Calyozina Enderiein 1912; Disepyris Kieffer 1905 = Lytepyris Kieffer 1913; Epyris Westwood 1832 = Muellerella Saussure 1892 = Parepyris Kieffer 1913 = Psilepyris Kieffer 1913 = Dolus Motschulsky 1863 = Calyoza Westwood 1837 = Paracalyoza Cameron 1909 = Artiepyris Kieffer 1913 = Calyozella Enderlein 1920 = Callioza Agassiz 1846 (Unjustified emendation) = Pseudocalyoza Turner 1915 = Homoglenus Kieffer 1904; Holepyris Kieffer 1905 = Rysepyris Kieffer 1906 = Misepyris Kieffer 1913 = Parepyris Brethes 1913; Isobrachium Förster 1856; Laelius Ashmead 1893 = Allepyris Kieffer 1905 (Provisional) = Paralaelius Kieffer 1905; Leptepyris Kieffer 1914#; Neodisepyris Kurian 1955#; Planepyris Kieffer 1905#; Prolaelius Kieffer 1905; Neurepyris Kieffer 1905; Melanepyris Kieffer 1913#; Pristepyris Kieffer 1905#; Rhabdepyris Kieffer 1904 (Subgenus Rhabdepyris s. str. Kieffer 1904, Subgenus Trichotepyris Kieffer 1906, Subgenus Chlorepyris Kieffer 1913); Trachepyris Kieffer 1905 = Pristobethylus Kieffer 1905 = Acanthepyris Kieffer 1912; Triglenus Marshall 1905#; Trissepyris Kieffer 1905#; Xenepyris Kieffer 1913#

Tribe Sclerodermini

Allobethylus Kieffer 1905 = Nesepyris Bridwell 1920; Alongatepyris Azevedo 1992; Ateleopterus Förster 1856#; Bethylopsis Fouts 1939; Chilepyris Evans 1964; Disclerderma Kieffer 1904; Glenosema Kieffer 1905 = Arysepyris Kieffer 1905; Lepidosternopsis Ogloblin 1954 = Nothepyris Evans 1973; Sclerodermus Latreille 1890 = Scleroderma Oken 1817 (Unjustified emendation) = Sclerochroa Förster 1850 = Neoscreroderma Kieffer 1905; Scaphepyris Kieffer 1905; Thlastepyris Evans 1973

Tribe Cephalonomiini

Acephalonomia Strejcek 1990; Cephalonomia Westwood 1833 = Holopedina Förster 1850 = Cephaloderma Hoffer 1936 = Cephalomia Kirchner 1867 (Unjustified emendation); Islaelius Richards 1952; Plastanoxus Kieffer 1905 = Snappania Hedqvist 1975; Prorops Waterston 1923

Subfamily Mesitiinae = Subfamily Mesitinae (Unjustified emendation)

Anaylax Móczár 1970; Bradepyris Kieffer 1905; Clytrovorus Nagy 1972; Codorcas Nagy 1972; Heterocoelia Dahlbom 1854; Incertosulcus Móczár 1970; Mesitius Spinola 1851; Metrionotus Móczár 1970; Pilomesitius Móczár 1970; Parvoculus Móczár 1970; Pseudomesitius Duchaussoy 1916#; Pycnomesitius Móczár 1971; Sulcomesitius Móczár 1970 = Topcobius Nagy 1972

Subfamily Galodoxinae

Galodoxa Nagy 1974

Subfamily Bethylinae

Bethylus Latrelle 1820 = Perisemus Förster 1856 = Episemus Thomson 1862 = Anoxus Thomson 1862 = Anoxys Dalla Torre 1898 (Unjustified emendation) = Digoniozus Kieffer 1905; Eupsenella Westwood 1874; Goniozus Förster 1856 = Parasierola Cameron

1883 = Progoniozus Kieffer 1905 = Perisierola Kieffer 1914; Lytopsenella Kieffer 1911; Odontepyris Kieffer 1904 = Trissomalus Kieffer 19065; Prosierola Kieffer 1905; Sierola Cameron 1881

Subfamily incertae sedis

Foenobethylus Kieffer 1913#

Genera transferred to the Tiphiidae

Bruesiella Mann 1914 [Evans 1964]; Dryinopsis Brues 1910 [Reid 1941, Evans 1964]

Genera transferred to the Rhopalosomatidae

Saphobethylus Kieffer 1911 [Turner & Waterston 1917]; Algoella Kieffer 1914 [= Alogoa Brues 1910, nec Castelnau 1961; Brues 1922]; Harpagocrypyus Perkins 1908 [Brues 1922, Reid 1941]

Genera transferred to the Chrysididae

Godfrinia Kieffer 1911 [Reid 1941]; Promesitius Kieffer 1905 [Reid 1941]; Lustrina Kurian 1955 [Kimsey & Bohart 1990]; Laccomerista Cameron 1910 [Evans 1910, Kimsey & Bohart 1990]

Genus transferred to the Scolebytidae

Clystopsenella Kieffer 1911 [Evans 1963]

Genus transferred to the Scelionidae

Mantibaria Kirby 1900 [Masner 1976]

Genus transferred to the Sierolomorphidae

Proscleroderma Kieffer 1905 [Nagy 1990]

Genus transferred to the Formicidae

Neoclystopsenella Kurian 1955 [Brown 1987]

Genera which cannot be recognized

Omaloderus Walker 1843 = Homaloderus (Laspus) Dalla Torre 1898 [Evans 1964; not a bethylid wasp.]