

## ON THE HIGHER CLASSIFICATION OF ANISOLABIDIDAE (INSECTA : DERMAPTERA) WITH A CHECK-LIST OF GENERA AND SPECIES

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### INTRODUCTION

Sakai (1982) pointed out that family name Anisolabi(di)dae Verhoeff, 1902 has priority over Carcinophoridae Popham, 1965. Similarly the sub family Anisolabi(di)nae Zacher, 1911 has priority over Carcinophorinae Hincks, 1954. Accordingly the former are used in the present work.

A key for the discrimination of various subfamilies is given. The distinctive characters are based on various morphological character, mainly, on the body shape, shape of thoracic tergites, sternites and the male genitalia.

It is proposed to erect a new subfamily Placolabidinae for the reception of *Placolabis* Bey-Bienko, 1959 as its type genus. This genus is very distinct from all the known genera of Anisolabidinae in having the median posterior prolongation of 8th sternite in males.

Isolaboidinae has been placed under this family by Srivastava (1996) which was transferred under Spongiphoridae (=Labidae) by Steinmann (1990).

An attempt is made here to streamline the taxonomic status of various genera of Anisolabidinae by providing a key for their separation. The main criteria for their discrimination is based on the relative length of parameres besides its overall shape. The definition of various genera has been enlarged.

The genera based on the shape of distal lobes and its associated structures such as chitinous accessory plates, shape and size of virga and the arrangement of teeth on chitinous pad may not prove to be stable characters since these vary intraspecifically.

Burr's (1915) arrangement of various genera based upon on the male genitalia which provided a useful basis for their separation, needs modification in the light of present knowledge.

*Epilandex* Hebard, was mainly characterised in having long parameres, a little over ten times longer than its width and somewhat broader at base, narrowing apically with tip thread like, often turned externally. The parameres in *Capralabis* Brindle, are well over ten times longer than board. Accordingly, it is treated as synonym of *Epilandex* Hebard.

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*Heterolabis* Borelli and *Euborellia* Burr possess identical parameres. For this reason former is treated as synonym.

*Mongolabis* Zacher, is redefined to include those species which possess parameres roughly one and half times longer than broad, rectangular in shape, sometimes with inner margin oblique. Besides, in most cases, the external apical angle is projecting and tip is pointed or anteriorly produced to form a sort of snout. Genera included as synonym are *Gelotolabis* Zacher, *Cerolabis* Bey - Bienko and *Paraflexiolabis* Steinmann, since the species included under them fit well within the said definition of *Mangolabis*.

The parameres in *Anisolabella* Zacher, are broadly oval, narrowing apically with external margin regularly convex and basal margin feebly obliquely convex and inner margin sigmoid. Somehow, it was kept isolated because of very characteristic shape of parameres. But it does not hold good in view of the shape of parameres in *Paralabis* Burr and *Horridolabis* Zacher. In these genera parameres may not be equally broad but are narrowed apically with external margin regularly convex. Accordingly these two genera are treated as synonym under *Anisolabella*.

Burr placed too much emphasis on the greatest width of hind abdominal tergites while recognising his genus *Gonolabis*. Steinmann (1981) although rightly questioned the validity of this character, treated *Gonolabis* in much broader sense to include several species ignoring the totally diverse parameres. Besides, his reliance, on the extent of cleavage of pro-parameres appears doubtful. It has been observed to vary intraspecifically if a series of genitalic mounts are examined. The shape of parameres in *Gonolabis* and *Epilabis* Burr are identical in being of uniform width throughout with external apical angle convex. In the former these are comparatively broader, i.e. about twice as long as broad whereas in latter slightly narrower in being two and half times longer than broad. As a result *Epilabis* is proposed to be synonymised under *Gonolabis*.

Steinmann (1981a) erected *Foramenolabis* with *Epilabis sisera* (Burr) as the type, characterising mainly by the presence of a deep oval concavity on the head of males. It has been observed in a large series of the said species to be variable in depth and occasionally almost obliterated. As such this genus is also treated as synonym of *Gonolabis*.

In the category of genera having the parameres three times longer than broad with tip produced into a point or acuminate, *Apolabis* Burr, 1915 is treated as valid. *Eulabis* Zacher, 1911 (name preoccupied by Eschscholtz, 1929 in Coleoptera and *Zacheria* Steinmann, 1975 as its new name) are considered as synonyms. *Thekalabis* Kapoor, has parameres three times longer than broad with apex although not ending into a sharp point, it is strongly narrowed in apical half. This genus has been rightly placed as synonym of *Apolabis* by Srivastava (1986).

*Carcinophora* Scudder and *Anisolabis* Fieber, both possess parameres more than five times longer than broad but in the former sides are convex with tip pointed whereas obtuse in the latter.

Under *Carcinophora*, genera *Spandex* Scudder, *Notolabis* Hincks, *Metalabis* Burr, *Mandex* Burr, *Psalis* Serville and *Neolabis* Brindle are treated as synonym.

Steinmann (1989) has wrongly placed *Homoeolabis* Borelli, 1911 as synonym under *Anisolabis*. In fact it is synonym of *Titanolabis* Burr, 1911 under Titanolabidinae.

*Indolabis* Steinmann, appears to be close to *Titanolabis* on the basis of male genitalia. Since the shape of thoracic sternites is not described in detail, only mentioned as 'Typical' in the original description, it is not possible to comment further. For this reason it is treated as valid pending examination of the type.

Similarly, *Flexiolabis* Steinmann is also treated as valid which is not sufficiently characterised. Perhaps when specimens the two species, included under the genus, are available for examination, it would be possible to evaluate the characters.

#### Key to the subfamilies (on males only)

- 1 (2) Body strongly flattened, i.e. dorsoventrally compressed.....Platylabiinae
- 2 (1) Body not strongly flattened, head and abdominal tergites often convex or weakly convex or flattened
- 3 (4) Prosternum gradually attenuate posteriorly.....Gonolabiinae
- 4 (3) Prosternum with slight constriction in posterior one third, afterwards gently widened with hind margin truncate
- 5 (6) Metasternum with hind margin convex, more or less tongue shaped.....Titanolabidinae
- 6 (5) Metasternum with hind margin truncate, generally widened in basal half and narrowed between hind coxae
- 7(12) Mesosternum with hind margin convex
- 8 (9) Eyes absent, parameres vestigial or reduced.....Anophthalmolabidinae
- 9 (8) Eyes and parameres well developed
- 10(11) Eighth sternite in middle with a median elongated lobe, directed posteriorly.....Placolabidinae **Subfam.nov.**
- 11(10) Eighth sternite without such lobe.....Anisolabidinae
- 12 (7) Mesosternum with hind margin truncate
- 13(16) First antennal segment longer than the distance between antennal bases
- 14(15) Mesonotum laterally with a sharp ridge or convexity along its whole length, often dying out in posterior half.....Brachylabidinae
- 15(14) Mesonotum laterally without a ridge or convexity.....Isolabidinae

- 16(13) First antennal segment shorter or about as long as the distance between antennal bases
- 17(18) Proparameres united all along its length.....Antisolabidinae
- 18(17) Proparameres of both side separated, or partially separated apically
- 19(22) Distal lobes of both sides functional
- 20(21) Both distal lobes generally of same size.....Parisolabidinae
- 21(20) One of the distal lobes shorter in length (somewhat of carcinophorid type).....  
.....Isolopsalidinae
- 22(19) Right distal lobe atrophied, left distal lobe generally enlarged (genitalia appears to be of Labiid type but proparameres paired).....Isolaboidinae

Key to genera of *Anisolabidinae* (on males only)

- 1 (2) Parameres long, over 10 times longer than broad, narrow, sometimes broader at base.....*Epilandex* Hebard  
(=*Capralabis* Brindle Syn.nov.)
- 2 (1) Parameres less than 10 times longer than broad
- 3 (9) Parameres excised apically or armed along the internal or external margin
- 4 (5) Parameres excised apically in middle.....*Ornatolabis* Steinmann
- 5 (4) Parameres not excised apically
- 6 (7) Parameres armed on external margin with a broad recurved flange.....  
.....*Canarilabis* Steinmann
- 7 (6) Parameres armed internally at base or middle with a tooth.....  
.....*Aborolabis* Srivastava
- 9 (3) Parameres entire, neither excised apically nor armed internally or externally
- 10(17) Parameres about as long as broad to two and half times longer than broad, generally broad and flattened
- 11(12) Parameres about as long as broad or slightly longer than broad and flattened.....  
.....*Euborellia* Burr  
(=*Heterolabis* Borelli)
- 12(11) Parameres about one and half times to two and half times longer than broad
- 13(16) Parameres about one and half times longer than broad, broadened in middle, narrowed apically

- 14(15) Parameres somewhat square or sometimes with inner margin oblique, narrowed towards apex forming a sort of snout, external apical angle generally projecting or spiniform.....*Mongolabis* Zacher  
 (= *Gelotolabis* Zacher)  
 (= *Cerolabis* Bey-Bienko)  
 (= *Paraflexiolabis* Steinmann **Syn.nov.**)
- 15(14) Parameres oval or squarish, narrowed apically but not forming a snout, tip may be pointed or obtuse, external margin forming a continuous arch or semicircular.....  
 .....*Anisolabella* Zacher  
 (= *Horridolabis* Zacher)  
 (= *Paralabis* Burr)
- 16(13) Parameres about two and half times longer than broad, almost of uniform width throughout.....*Gonolabis* Burr  
 (= *Epilabis* Burr)  
 (= *Foramenolabis* Steinman **Syn.nov.**)
- 17(10) Parameres three to seven times longer than broad, generally narrower
- 18(19) Parameres with tip strongly recurved apically .....*Flexiolabis* Steinmann
- 19(18) Parameres not recurved apically
- 20(21) Parameres with tip bifid and both distal lobes long.....*Indolabis* Steinmann
- 21(20) Parameres with tip entire, one of the distal lobes short
- 22(23) Parameres three times longer than broad or slightly less, broadened at base externally with tip acuminate.....*Apolabis* Burr  
 (= *Eulabis* Zacher)  
 (= *Thekalabis* Kapoor)  
 (= *Zacheria* Steinmann)
- 23(22) Parameres more than four to seven times longer than broad, tip not as above, acute or obtuse
- 24(25) Parameres with tip obtuse, often slightly broadened in middle.....  
 .....*Anisolabis* Fieber  
 (= *Forcinella* Dohrn)  
 (= *Labidurodes* Dubrony)  
 (= *Logicolabis* Zacher)  
 (= *Spondox* Burr)

- 25(24) Parameres with tip acute, generally external and internal margin convex or with faint sinuation.....*Carcinophora* Scudder  
 (= *Psalis* Serville)  
 (= *Metalabis* Burr)  
 (= *Mandex* Burr)  
 (= *Spandex* Burr)  
 (= *Notolabis* Hincks)  
 (= *Neolabis* Brindle **Syn.nov.**).

## LIST OF GENERA AND SPECIES

## PLATYLABIINAE Burr, 1911

Type-genus *Platylabia* Dohrn, 1867

**Platylabia** Dohrn, 1867

(= *Labidophora* Scudder, 1876)

(= *Palex* Burr, 1910)

Type-species *Platylabia major* Dohrn, 1867

*List of species*

<i>brindlei</i> Srivastava, 1981	—	India : Meghalaya
<i>major</i> Dohrn, 1867 (= <i>Platylabia sparattoides</i> Bormans, 1900)	—	Myanmar, Thailand, Laos, Vietnam, Java Sumatra and Celebes
<i>nathani</i> Srivastava, 1981	—	India Tamil Nadu

## GONOLABIINAE Verhoeff, 1902

Type-genus *Gonolabina* Verhoeff, 1902

**Gonolabina** Verhoeff, 1902

Type-species *Forficula spectabilis* Philippi, 1863  
 (= *Gonolabina kuhlgatzi* Verhoeff, 1902)

*List of species*

<i>binodosa</i> Brindle, 1967 (= <i>b. f. binodosa</i> Brindle, 1967) (= <i>b. f. llanguena</i> Brindle, 1967)	—	South America Peru (Zaráte Hda Llanguen)
<i>spectabilis</i> (Philippi, 1863) (= <i>G. kuhlgatzi</i> Verhoeff, 1902)	—	South America Chile
<i>trinodosa</i> Brindle, 1967	—	South America :Peru

## TITANOLABIDINAE, Srivastava, 1982

Type-genus *Titanolabis* Burr, 1910***Paratitanolabis***, Srivastava, 1982Type-species *Paratitanolabis bormansi* Srivastava, 1982*List of species**bormansi* Srivastava, 1982 — Myanmar***Titanolabis*** Burr, 1910(= *Homoeolabis* Boralli, 1911)Type species *Forcinella colossea* Dohrn, 1864*List of species*

<i>bormansi</i> Srivastava, 1982 (= <i>T. gigas</i> Steinmann, 1988 <b>Syn.nov.</b> )	—	Australia (N. South Wales)
<i>centaurea</i> Steinmann, 1985	—	Australia
<i>colossea</i> (Dohrn, 1864)	—	Australia, New Caledonia, New Hebrides & Fiji
<i>maindroni</i> (Borelli, 1911)	—	Sri Lanka & South India
<i>orientalis</i> (Ramamurthi, 1986)	—	India (South)

## ANOPHTHALMOLABIDIAE Steinmann, 1975

Type-Genus *Anopthalmolabis* Brindle, 1968

***Anophthalmolabis* Brindle, 1968**

Type-species : *Anophthalmolabis leleupi* Brindle, 1968

<i>caeca</i> (Borelli, 1902)	—	Argentina
<i>leleupi</i> Brindle, 1968	—	Galapagos Island Santa Cruz

**PLACOLABIDINAE Subfam.nov.**

Type-genus *Placolabis* Bey-Bienko, 1959

***Placolabis* Bey-Bienko, 1959**

Type-species *Placolabis mira* Bey-Bienko, 1959

**List of species**

<i>mira</i> Bey-Bienko, 1959	—	China Yunnan
<i>thailandensis</i> Ramamurthi, 1973	—	Thailand

**ANISOLABIDINAE, Verhoeff, 1902**

Type-genus *Anisolabis* Fieber, 1853

***Epilandex*, Hebard, 1927**

(= *Capralabis* Brindle, 1981-Syn.nov.)

Type-species *Landex burri* Borelli, 1921

**List of species**

<i>ashmolei</i> (Brindle, 1981)	—	Ecuador
<i>bazyluki</i> Steinmann, 1979	—	Sri Lanka
<i>borellii</i> <b>Nom.nov.*</b>		
(= <i>Psalis burri</i> Borelli, 1905)		
(= <i>Psalis compacta</i> Hebard, 1919)	—	Paraguay & Columbia
<i>burri</i> (Borelli, 1921)	—	Thailand, Sumatra,
(= <i>E. undulata</i> Ramamurthi, 1963)		Java & Sri Lanka
<i>gresitti</i> Srivastava, 1976	—	Philippine Is Mindanao
<i>handschini</i> Hincks, 1954	—	West Sumba

\* (This new name is proposed for *Psalis burri* Borelli, 1905)



<i>nigra</i> (Caudell, 1907)	—	West Indies
<i>peterseni</i> Ramamurthi, 1967	—	Philippine Is and Bismarck Is.
<i>serrata</i> Srivastava, 1976	—	Philippine Is Luzon
<i>solomonensis</i> Brindle, 1970	—	Solomon Guadalcanal and Papua New Guinea
<i>srivastavai</i> (Brindle, 1981)	—	Panama
<i>steinmanni</i> (Brindle, 1981)	—	Panama

***Ornatolabis* Steinmann, 1988**

Type-species *Ornatolabis externa* (Bey-Bienko, 1959)

**List of Species**

<i>externa</i> (Bey-Bienko, 1959)	—	China Yunnan
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***Canarilabis* Steinmann, 1985**

Type-species *Forficula (Forficesila) maxima* Brullé, 1838  
in Webb & Berthelot

**List of species**

<i>maxima</i> (Brullé, 1838 in Webb & Berthelot)	—	Canary Isls, Maderia
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***Aborolabis* Srivastava, 1969**

Type-species *Anisolabis pervicina* Burr, 1913

**List of species**

<i>angulifera</i> (Dohrn, 1864)	—	From Spain to São Thombe
<i>cerrobarjai</i> Steinmann, 1979	—	Spain
<i>emarginata</i> Srivastava, 1974	—	India (Arunachal Pradesh & Meghalaya)
<i>kalaktangensis</i> Srivastava, 1972	—	India (Arunachal Pradesh & Sikkim)
<i>martensi</i> Brindle, 1987	—	Nepal

<i>mauritanica</i> (Lucas, 1846)	—	Mauritania, Morocco, Algeria and Tunisia
<i>mordax</i> Steinmann, 1978	—	Tunisia, Spain
<i>nepalensis</i> (Brindle, 1974)	—	Nepal
<i>nigrescens</i> Brindle, 1987	—	Nepal
<i>pervicina</i> (Burr, 1913)	—	India (Arunachal Pradesh, Himachal Pradesh, West Bengal & Assam), Bhutan and Nepal
<i>rufocapitata</i> Steinmann, 1984	—	Algeria
<i>tanzanica</i> Steinmann, 1981	—	Tanzania
<i>vicina</i> (Burr, 1911)	—	Ethiopia

***Euborellia*, Burr, 1910**

(= *Borellia* Burr, 1909)

(= *Heterolabis* Borelli, 1912) — **Syn.nov.**

(= *Landex* Burr, 1915)

Type-species *Forficesila moesta* Gené, 1829

**List of species**

<i>abbreviata</i> Srivastava, 1977	—	India (Arunachal Pradesh)
<i>andreinii</i> (Borelli, 1908)	—	Ethiopia
<i>annandalei</i> (Burr, 1906)	—	India (W.B.)
<i>annulipes</i> (Lucas, 1837)	—	World wide
<i>aporonoma</i> (Borelli, 1909)	—	Hawaii
<i>armata</i> (Borelli, 1906)	—	Costa Rica & Brazil
<i>boliviana</i> Brindle, 1971	—	Bolivia
<i>brasiliensis</i> (Borelli, 1912)	—	Brazil
<i>burmensis</i> Srivastava, 1984	—	Myanmar (not Thailand), Rangoon
<i>cavaleriei</i> (Borelli, 1921)	—	South China
<i>caraibea</i> Hebard, 1921	—	Bahamas, Greater and Lesser Antilles

<i>cinticollis</i> (Gerstaecker, 1883)	—	West Africa & California
<i>compressa</i> (Borelli, 1907)	—	Mozambique, Uganda, South Rhodesia, Zaire, Congo Republic, India & Pakistan
<i>dattai</i> Srivastava, 1977	—	India Rajasthan
<i>dimitata</i> Brindle, 1978	—	Zaire
<i>eteronoma</i> (Borelli, 1909)	—	Hawaii
<i>feae</i> (Borelli, 1907)	—	West Africa
<i>femoralis</i> (Dohrn, 1863)	—	Oriental Region, U.S.A., Madagascar, New Guinea & Micronesia
<i>flavohumeralis</i> Brindle, 1978	—	Ivory Coast
<i>formosae</i> (Borelli, 1927)	—	Taiwan
<i>fulviceps</i> Borelli, 1921	—	Congo Republic, Zaire
<i>hispanica</i> Steinmann, 1981	—	Spain
<i>insulana</i> (Borelli, 1912)	—	Comoro Isls.
<i>ituriensis</i> Brindle, 1978	—	Zaire
<i>janeirensis</i> (Dohrn, 1864)	—	South America
<i>jeekeli</i> Srivastava, 1985	—	Australia Victoria
<i>kuekenthali</i> (Zacher, 1911)	—	Malaysia
<i>malgacha</i> Brindle, 1966	—	Madagascar
<i>manipurensis</i> Srivastava, 1979	—	India (Manipur)
<i>mexicana</i> Brindle, 1971	—	Mexico
<i>mindanoensis</i> Nom. n.* (= <i>Heterolabis punctata</i> Srivastava, 1978)		
(= <i>Epilabis (Epilabis) harlequin</i> Steinmann, 1979) - <b>Syn.nov.</b>	—	Philippine Isls. Mindanao
<i>moesta</i> (Gené, 1837)	—	South Europe to Central Africa
<i>mystica</i> (Steinmann, 1979)	—	Vietnam
<i>nitens</i> (Brindle, 1978)	—	Cameroon
<i>philippinensis</i> Srivastava, 1979	—	Philippine Isls.
<i>plebeja</i> (Dohrn, 1863) (= <i>E. kiangsuensis</i> Hincks, 1937)	—	World Wide

\* New name for *Heterolabis punctata* Srivastava, 1978

<i>punctata</i> Borelli, 1927	—	China Nanking and Hong Kong
<i>rajasthanensis</i> Srivastava, 1977	—	India Rajasthan
<i>sakaii</i> Steinmann, 1978	—	Afghanistan
<i>sechuana</i> (Bey-Bienko, 1934)	—	China
<i>silvestrii</i> (Borelli, 1914) (= <i>Gonolabis fiesta</i> Steinmann, 1989)- <b>Syn. nov.</b>	—	Nigeria
<i>stali</i> (Dohrn, 1864)	—	World wide
<i>tellini</i> (Borelli, 1908)	—	Ethiopia
<i>truncata</i> Brindle, 1978	—	Uganda
<i>ugandana</i> Brindle, 1978	—	Uganda
<i>vanderbildti</i> Rehn, 1936	—	Guinea, Cameroon, Congo Republic, Zaire

#### Uncertain species

<i>ambigua</i> (Borelli, 1906)	—	USA, Cuba, Haiti, Dominica, Jamaica, Trinidad and Costa Rica
<i>flava</i> Steinmann, 1981	—	South Africa
<i>flavipes</i> Moreira, 1931	—	Brazil
<i>inermis</i> Moreira, 1931	—	Brazil
<i>maxima</i> Moreira, 1932 (= <i>Euborellia tropica</i> Steinmann, 1989)	—	Brazil
<i>nigropicea</i> (Borelli, 1924)	—	Buru
<i>nitida</i> Moreira, 1932	—	Brazil
<i>peregrina</i> (Mjöberg, 1904)	—	Brazil & Guyanas
<i>tatei</i> Hebard, 1924	—	Ecuador

#### *Mongolabis* Zacher, 1911

(= *Gelotolabis* Zacher, 1911, p. 385)

(= *Cerolabis* Bey - Bienko, 1959)

(= *Paraflexiolabis* Steinmann, 1988)

Type-species *Gonolabis woodwardi* Burr, 1906 (Designated by Burr, 1911, *Genera Insect.*, **122** : 34)

**List of species**

<i>affinis</i> Ramamurthi, 1973	—	Thailand
<i>bidens</i> (Steinmann, 1981)	—	New Guinea
<i>brunneri</i> (Dohrn, 1864)	—	Australia & Tasmania
<i>blanchardi</i> (Guillon, 1941)	—	Polynesia
<i>distincta</i> (Nishikawa, 1969)	—	Oiknawa
<i>fallax</i> (Bey-Bienko, 1959)	—	China Yunnan
<i>forcipata</i> (Burr, 1908)	—	West Australia
<i>gilesi</i> (Steinmann, 1981)	—	Australia
<i>hwangi</i> (Bey-Bienko, 1959)	—	China Yunnan
<i>infelix</i> (Burr, 1907)	—	Zambia, Malawi, North Mozambique, Tanzania
<i>insidiata</i> (Steinmann, 1979)	—	Vietnam
<i>magna</i> (Bey-Bienko, 1959)	—	China Yunnan
<i>ornata</i> (Steinmann, 1989)	—	Hawaii
<i>pacifica</i> (Erichson, 1842) (= <i>Anisolabis perkinsi</i> Kirby, 1910)	—	Australia, Polynesia, Sandwich Islands, Hawaii
<i>panfilovi</i> (Bey-Bienko, 1959)	—	China Yunnan
<i>punctulata</i> (Brindle, 1978)	—	Zaire
<i>quarens</i> (Burr, 1915)	—	Congo Republic, Cameroon, Togo, Nigeria, Equatorial Guinea
<i>scorpio</i> (Steinmann, 1985)	—	New Guinea
<i>straeleni</i> (Hincks, 1955)	—	Congo Republic, Zaire
<i>tanganyikae</i> (Brindle, 1964)	—	Tanzania
<i>tasmanica</i> (Bormans, 1880)	—	Tasmania and South Australia
<i>undata</i> (Bey-Bienko, 1959)	—	China Yunnan and Szechwan
<i>uruguayensis</i> (Brindle, 1971)	—	Uruguay & Chile
<i>vallakadaiensis</i> (Ramamurthi and David, 1973)	—	South India
<i>woodwardi</i> (Burr, 1908)	—	West Australia & Japan

*Anisolabella* Zacher, 1911

(= *Horridolabis* Zacher, 1911)

(= *Paralabis* Burr, 1915)

Type-species *Anisolabella braueri* Zacher, 1911

**List of species**

<i>acutiventr</i> is (Hincks, 1954)	—	Guinea, Sierra Leone, Ivory Coast
<i>antoni</i> (Dohrn, 1864)	—	Central South America
<i>bintumanensis</i> (Brindle, 1971)	—	Sierra Leone
<i>braueri</i> Zacher, 1911	—	North East Africa
<i>brindlei</i> (Capra, 1978)	—	Perim Island (Red Sea)
<i>burri</i> (Zacher, 1911)	—	Ethiopia, Egypt, Somalia
<i>carinatus</i> (Srivastava, 1987)	—	India N.E.
<i>cristata</i> (Hincks, 1954)	—	Guinea
<i>denticulatus</i> (Srivastava, 1987)	—	India Arunachal Pradesh
<i>deserta</i> Steinmann, 1981	—	Tanzania
<i>dohrni</i> (Kirby, 1891)	—	Sri Lanka and India
(= <i>Psalis lefroyi</i> Burr, 1910)		
(= <i>Paralabis antennata</i> Ramamurthi & David, 1973)		
<i>incisa</i> (Borelli, 1914)	—	Guinea, Liberia, Sierra Leone, Mauritania
<i>incisoides</i> (Brindle, 1978)	—	Zaire
<i>felix felix</i> (Burr, 1907)	—	Tanzania
<i>felix chyluensis</i> (Brindle, 1978)	—	Kenya
<i>felix elgonensis</i> (Brindle, 1978)	—	Uganda
<i>felix meruensis</i> (Brindle, 1978)	—	Tanzania
<i>greeni</i> (Burr, 1899)	—	Sri Lanka and India
<i>hincksi</i> (Brindle, 1964)	—	Kenya
<i>laevigata</i> (Brindle, 1978)	—	Guinea

<i>lamottei</i> (Brindle, 1971)	—	Sierra Leone
<i>marginalis</i> (Dohrn, 1864)	—	East Asia, Japan to Java
<i>montshadskii</i> (Bey-Bienko, 1959)	—	China (South) & India
<i>nandii</i> (Srivastava, 1987)	—	India (South)
<i>nigeriensis</i> (Brindle, 1978)	—	Nigeria
<i>oweni</i> (Burr, 1911)	—	West Africa
<i>paradoxura</i> (Zacher, 1911)	—	Kenya
<i>porrectella</i> (Brindle, 1978)	—	Zaire
<i>puella</i> (Steinmann, 1978)	—	Ghana
<i>purpurea</i> (Borelli, 1921)	—	Congo Republic, Zaire
<i>quadricollis</i> (Hincks, 1954)	—	Guinea, Liberia, Sierra Leone, Togo, Ghana
<i>royi</i> (Brindle, 1971)	—	Sierra Leone
<i>rugosa</i> (Brindle, 1971)	—	Sierra Leone
<i>ryukyuensis</i> (Nishikawa, 1969)	—	Okinawa
<i>sinuata</i> (Brindle, 1978)	—	Zaire
<i>splendida</i> (Steinmann, 1978)	—	Congo Republic
<i>transversalis</i> (Brindle, 1978)	—	Cameroon
<i>umbrosa</i> (Brindle, 1964)	—	Tanzania

***Gonolabis* Burr, 1900**

(= *Epilabis* Burr, 1915)

(= *Foramenolabis* Steinmann, 1981)

Type-species *Anisolabis javana* Bormans, 1883

**List of species**

<i>acuta</i> Boeseman, 1954	—	Java and Bali
<i>afghana</i> (Steinmann, 1981)	—	Afghanistan
<i>analis</i> (Ramamurthi & David, 1973)	—	South India
<i>burri</i> (Srivastava, 1970)	—	India (Maharashtra)

<i>darevskyi</i> Bey-Bienko, 1965	—	South China
<i>dentata</i> Steinmann, 1981	—	Australia
<i>electa</i> Burr, 1910	—	Sri Lanka; Adventive in Africa
<i>emarginata</i> (Ramamurthi & David, 1973)	—	South India
<i>insulana</i> (Brindle, 1972)	—	Caroline Islands
<i>javana</i> (Bormans, 1883) (= <i>Gonolabis sumatrana</i> Bormans, 1900)	—	Malaysia, Indonesia and New Guinea
<i>nilgiriensis</i> (Srivastava, 1978)	—	South India
<i>penicellata</i> (Borelli, 1911)	—	South India
<i>punctata</i> (Srivastava, 1978)	—	South India
<i>sisera</i> (Burr, 1910)	—	South India

#### Uncertain species

<i>minor</i> Borelli, 1926	—	Malabar, Java, Sunda Isls & Philippines Islands
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#### *Flexiolabis* Steinmann, 1988

Type-species *Anisolabis uncinata* Brindle, 1978

##### List of species

<i>hamata</i> (Brindle, 1978)	—	Ethiopia
<i>uncinata</i> (Brindle, 1978)	—	Zaire

#### *Indolabis* Steinmann, 1988

Type-species *Indolabis papua* Steinmann, 1988

##### List of species

<i>papua</i> Steinmann, 1988	—	Papua, New Guinea
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#### *Apolabis* Burr, 1915

(= *Eulabis* Zacher, 1911)

(= *Thekalabis* Kapoor, 1967)

(= *Zacheria* Steinmann, 1975)



Type-species : *Forcinella hottentota* Dohrn, 1867

**List of species**

<i>aborensis</i> (Burr, 1913)	—	N.E. India
<i>bifida</i> (Brindle, 1970)	—	Soloman Islands
<i>castetsi</i> (Bormans, 1897)	—	South India
<i>cunicula</i> Brindle, 1978	—	Nigeria
<i>dentata</i> (Burr, 1908)	—	West Australia
<i>picea</i> (Borelli, 1907) (= <i>Anisolabis duplicata</i> Steinmann, 1988)	—	Ethiopia, Uganda and Cameroon
<i>elongata</i> (Brindle, 1978)	—	Cameroon
<i>genitalis</i> (Kapoor, 1967)	—	South India
<i>hottentota</i> (Dohrn, 1867)	—	West and South Africa
<i>percheroni</i> (Guérin & Percheron, 1838)	—	South and Central America, U.S.A. Massachusetts)
<i>peruviana</i> (Bormans, 1880)	—	Peru
<i>polita</i> (Zacher, 1911)	—	Unknown
<i>ramachandrai</i> (Ramamurthi & David, 1973)	—	South India
<i>spatula</i> (Brindle, 1978)	—	Cameroon
<i>spitzi</i> (Menozzi, 1932)	—	Brazil and Suriname
<i>tumida</i> (Borelli, 1907)	—	Equatorial Guinea Bioko; Cameroon; Gango Republic

***Anisolabis* Fieber, 1853**

(= *Forcinella* Dohrn, 1862)

(= *Labidurodes* Dubrony, 1879)

(= *Logicolabis* Zacher, 1911)

(= *Spondox* Burr, 1914)

Type-species *Forficula maritima* Bonelli in Gené, 1832- (Designated by Scudder, 1876, *Proc. Boston Soc. nat. Hist.*, **18** 289)

**List of species**

<i>americana</i> (Palisot de Beauvois, 1817)	—	West Indies, Cuba, Jamaica, Dominica, Haiti, Puerto Rico, Hispaniola, Guatemala, Nicaragua, Costa Rica, Panama, Ecuador, Venezuela, Colombia & Peru (? Canada)
<i>australis</i> Tindale, 1923	—	South Australia
<i>balogahi</i> Steinmann, 1979	—	New Guinea
<i>brasiliensis</i> (Brindle, 1979)	—	Brazil
<i>caesarea</i> (Zacher, 1911)	—	Tanzania
<i>canaca</i> Brindle, 1976	—	New Caledonia
<i>carinata</i> (Brindle, 1968)	—	Suriname
<i>ecarinata</i> (Brindle, 1968)	—	Suriname
<i>excisa</i> Bey-Bienko, 1959	—	China Yunnan
<i>horvathi</i> Burr, 1912	—	New Guinea
<i>kristenseni</i> Burr, 1911	—	Ethiopia
<i>kudagae</i> Burr, 1901	—	Sri Lanka & ? India
<i>littorea</i> (White, 1846)	—	New Zealand, Tasmania, Sandwich Islands, Great Barrier Reef
<i>maritima</i> (Bonelli, 1832)	—	World-wide
<i>minutissima</i> Brindle, 1972	—	West Caroline Islands
<i>modesta</i> Steinmann, 1979	—	New Guinea
<i>neavei</i> Brindle, 1978	—	Tanzania
<i>nigrofusca</i> Steinmann, 1979	—	Australia New South Wales
<i>nimbaensis</i> Hincks, 1954	—	Guinea, Ivory Coast and Liberia
<i>perissa</i> Günther, 1929	—	New Guinea
<i>pilosa</i> Steinmann, 1979	—	New Guinea
<i>robusta</i> (Dubrony, 1879)	—	Maynmar & New Guinea

( = *Labidurodes egregius* Günther, 1929)

<i>rostrata</i> Brindle, 1978	—	Zaire
<i>rougemonti</i> Brindle, 1978	—	Ethiopia
<i>rubella</i> Brindle, 1977	—	Sri Lanka
<i>rufescens</i> Kirby, 1891	—	West Africa
<i>saramaccensis</i> (Zacher, 1911)	—	Panama, Trinidad and Suriname
<i>sarasini</i> (Burr, 1914)	—	New Calendonia
<i>scotti</i> Brindle, 1978	—	Ethiopia
<i>silvestrii</i> Borelli, 1914	—	Nigeria
( = <i>Gonolabis fiesta</i> Steinmann, 1989)		
<i>simiensis</i> Brindle, 1978	—	Ethiopia
<i>turgida</i> Burr, 1911	—	Cameroon
<i>verhoeffi</i> Zacher, 1911	—	Bismarck Archipelago, New Hebrides
<i>vosseleri</i> Burr, 1907	—	Tanzania
<i>westralica</i> Burr, 1906	—	West Australia
<i>whellani</i> Brindle, 1978	—	Malawi

#### Uncertain species

<i>atra</i> Borelli, 1907	—	West Africa
<i>deplanata</i> Rehn, 1932	—	Guyanas and Brazil
<i>dubronyi</i> Kirby, 1888	—	Myanmar
( = <i>Anisolabis laeta</i> Bormans, 1888)		
<i>flavocapitata</i> Steinmann, 1979	—	Australia
<i>gaudens</i> Burr, 1904	—	India and Bhutan
<i>gestri</i> Borelli, 1907	—	Cameroon
<i>pectoralis</i> (Eschscholtz, 1822)	—	U.S.S.R. Kamchatka
<i>penetrans</i> Burr, 1912	—	Indonesia Comoro Islands
<i>pluto</i> Rehn, 1906	—	Liberia
<i>recurva</i> Borelli, 1915	—	Phillippine Islands Luzon
<i>subarmata</i> (Kirby, 1900)	—	Christmas Islands

<i>tegminata</i> Caudell, 1927	—	Fiji
<i>vitalisi</i> Burr, 1917	—	Vietnam and South China

***Carcinophora* Scudder, 1876**

- (= *Psalis* Serville, 1831)  
 (= *Metalabis* Burr, 1915)  
 (= *Mandex* Burr, 1915)  
 (= *Spandex* Burr, 1915)  
 (= *Notolabis* Hincks, 1954)  
 (= *Neolabis* Brindle, 1981)

Type-species *Chelidura robusta* Scudder, 1869

**List of species**

<i>brasiliensis</i> (Brindle, 1979)	—	Brazil
<i>campbelli</i> (Brindle, 1981)	—	Ecuador
<i>festae</i> (Borelli, 1904)	—	Ecuador
<i>gagatina</i> (Klug, 1838)	—	South and Central America
<i>isomorpha</i> (Borelli, 1907)	—	Gambia, Guinea-Bissau, Liberia, Togo, Cameroon
<i>jeanneli</i> (Menozzi, 1938)	—	East Africa
<i>kawakamii</i> (Shiraki, 1928)	—	Taiwan
<i>kirbyi</i> (Burr, 1897)	—	Java
<i>occidentalis</i> (Kirby, 1896)	—	West Australia
<i>rosenbergi</i> (Burr, 1899)	—	Ecuador and Colombia
<i>venezuelica</i> Brindle, 1968	—	Venezuela
<i>venusta</i> Steinmann, 1989	—	Australia

**Uncertain species**

<i>apolinari</i> (Hebard, 1919)	—	Colombia
<i>boesemani</i> Steinmann, 1981	—	Suriname
<i>brasiliensis</i> (Moreira, 1931)	—	Brazil
<i>haenschi</i> (Burr, 1912)	—	Ecuador
<i>minima</i> (Moreira, 1931)	—	Brazil

<i>scudderi</i> (Bormans, 1900)	—	Paraguay, Brazil, Peru, Bolivia and Guyanas
<i>waddyi</i> Burr, 1904	—	Martinique

## BRACHYLABIDINAE Burr, 1908

Type-genus *Brachylabia* Dohrn, 1864***Metisolabis*** Burr, 1910Type-species *Brachylabis voltzkowi* Burr, 1908, (Designated by Kirby, 1891, *J. Linn. Soc. (Zool)*, **23** 518).**List of species**

<i>bifoveolata</i> (Bolivar, 1897)	—	India (South)
<i>caudelli</i> (Burr, 1908) (= <i>Ctenisolabis aciculata</i> Steinmann 1983) (= <i>Ctenisolabis loebli</i> Steinmann, 1983)	—	India W.B. (Darjeeling dist.) and Meghalaya (Shillong)
<i>fulgens</i> Steinmann, 1988	—	Myanmar
<i>malgacha</i> (Burr, 1904)	—	Madagascar
<i>milloti</i> (Hincks, 1953)	—	Madagascar
<i>punctata</i> (Dubrony, 1879)	—	Oriental Region
<i>submetallica</i> (Brindle, 1966)	—	Zaire, Zambia, Burundi and Rhodesia
<i>voltzkowi</i> (Burr, 1908)	—	Madagascar

***Ctenisolabis*** Verhoeff, 1902.Type-species : *Ctenisolabis togoensis* Verhoeff, 1902**List of species**

<i>fletcheri</i> Burr, 1910	—	India (South) and Sri Lanka
<i>mahunkai</i> Steinmann, 1978	—	Paraguay
<i>montana</i> (Borelli, 1909)	—	Costa Rica
<i>nigra</i> (Scudder, 1876)	—	Costa Rica, Guatemala, Paraguay, Bolivia and Brazil
<i>pusilla</i> Steinmann, 1978	—	South Africa

<i>ruficollis</i> (Hincks, 1957)	—	South Africa
<i>togoensis</i> Verhoeff, 1902	—	South Africa and ? French Guinea, Togo
<i>traegaordhi</i> (Burr, 1913)	—	Natal

***Brachylabis* Dohrn, 1864**

(= *Nannisolabis* Burr, 1910)

Type-species *Forficula chilensis* Blanchard, 1851

**List of species**

<i>canaca</i> Burr, 1914	—	New Caledonia
<i>carinata</i> (Brindle, 1978)	—	Rhodesia
<i>collinsi</i> Brindle, 1980	—	Borneo
<i>coriacea</i> Burr, 1910	—	Brazil
<i>fuscula</i> Brindle, 1970	—	Gabon
<i>hincksi</i> (Srivastava, 1981)	—	Myanmar
<i>lenkoi</i> Brindle, 1968	—	Brazil
<i>manawatawhi</i> Giles, 1958	—	New Zealand
<i>philetas</i> Burr, 1901	—	Sri Lanka
<i>punctulata</i> (Moreira, 1931)	—	Brazil
<i>willeyi</i> (Burr, 1910)	—	Sri Lanka
<i>yaloma</i> Ramamurthi, 1967	—	Bismark Islands

**ISOLABIDINAE Verhoeff, 1902**

Type-genus *Isolabis* Verhoeff, 1902

***Pterolabis* Steinmann, 1989**

Type-species *Pseudovostox villiersi* Brindle, 1968

**List of species**

<i>villiersi</i> (Brindle, 1968)	—	Congo Republic, Gabon
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***Isolabis* Verhoeff, 1902**

(= *Leptisolabis* Verhoeff, 1902)

(= *Verhoeffia* Burr, 1908)

(= *Arlex* Burr, 1910)

Type-species *Isolabis braueri* Verhoeff, 1902

**List of species**

<i>attenuata</i> Brindle, 1978	—	Nigeria
<i>bicolor</i> (Brindle, 1975)	—	Tanzania
<i>braueri</i> Verhoeff, 1902	—	West Africa
<i>cavagnaroi</i> Brindle, 1987	—	Australia New South Wales
<i>coiffaiti</i> (Brindle, 1970)	—	Gabon
<i>frater</i> Steinmann, 1986	—	Venezuela
<i>grandicollis</i> (Hincks, 1954)	—	West Africa
<i>ocellata</i> Srivastava, 1978	—	Myanmar
<i>pauliani</i> (Hincks, 1953)	—	Madagascar
<i>proxima</i> (Brindle, 1966)	—	Ruanda-Burundi, Tanzania, Zaire
<i>quadrata</i> (Brindle, 1966)	—	Zaire
<i>rufa</i> (Brindle, 1966)	—	Tanzania
<i>schoutedeni</i> Hicks, 1954	—	Zaire & Congo Republic
<i>transversa</i> Brindle, 1978	—	Zaire
<i>unicolor</i> (Brindle, 1975)	—	East Africa
<i>usumbarana</i> (Verheoff, 1902)	—	Tanzania, Kenya, Angola, Zaire

**Uncertain species**

<i>howardi</i> (Burr, 1907)	—	Costa Rica, Guatemala, Panama
<i>sjoestedti</i> (Borg, 1904)	—	Cameroon, Equatorial Guinea

**Geracodes**, Hebard, 1917Type-species *Geracodes litus* Hebard, 1917**List of species**

<i>aptera</i> Brindle, 1978	—	New Guinea
<i>laboides</i> Hincks, 1952	—	West Africa
<i>litus</i> Hebard, 1917	—	Panama
<i>paraguayensis</i> Borelli, 1932	—	Paraguay

**Africolabis**, Brindle, 1978Type-species *Africolabis pseudohumicola* Brindle, 1978**List of species**

<i>humicola</i> (Brindle, 1966)	—	Zaire
<i>pseudohumicola</i> Brindle, 1978	—	Zaire

## ANTISOLABIDINAE, Brindle, 1978

Type-genus *Antisolabis* Burr, 1911**Antisolabis**, Burr, 1911Type-species *Antisolabis myrmecoides* Burr, 1911**List of species**

<i>allardi</i> (Brindle, 1971)	—	Hispaniola
<i>arripiens</i> Burr, 1914	—	New Caledonia
<i>ceylonica</i> (Brindle, 1977)	—	Sri Lanka
<i>forficula</i> (Burr, 1914)	—	New Caledonia
<i>fusca</i> (Brindle, 1966)	—	Tanzania
<i>gisleni</i> (Hincks, 1954)	—	West Australia
<i>greensladei</i> (Brindle, 1970)	—	Soloman Islands
<i>kelangi</i> (Brindle, 1969)	—	From Sri Lanka to West Malaysia
<i>meridionalis</i> (Brindle, 1978)	—	Cape Province



<i>minima</i> (Brindle, 1966)	—	Tanzania
<i>myrmecoides</i> Burr, 1911	—	South Africa
<i>neuter</i> Steinmann, 1987	—	Venezuela
<i>notabilis</i> Steinmann, 1981	—	New Zealand
<i>notonoma</i> Hincks, 1952	—	Australia New South Wales
<i>rouxi</i> Burr, 1914	—	New Caledonia
<i>rouxioides</i> (Brindle, 1976)	—	New Caledonia
<i>rugosa</i> (Brindle, 1966)	—	Tanzania
<i>scotti</i> (Burr, 1910)	—	Seychelles
<i>seychellensis</i> (Brindle, 1976)	—	Seychelles
<i>solitaria</i> Steinmann, 1988	—	New Guinea
<i>sulcatipes</i> (Burr, 1911)	—	South Africa
<i>transiens</i> Burr, 1914	—	New Caledonia

#### Uncertain species

<i>camerunensis</i> (Borelli, 1914)	—	Cameroon
<i>cordata</i> (Brindle, 1976)	—	New Hebrides
<i>dammermani</i> (Borelli, 1926)	—	Java
<i>fijica</i> Steinmann, 1988	—	Fiji
<i>formicoides</i> (Burr, 1911)	—	South India
<i>geniculata</i> (Montrouzier, 1864)	—	New Calendoncia
<i>holdhausi</i> (Burr, 1910)	—	Australia Queensland
<i>javana</i> (Boeseman, 1954)	—	Java
<i>tongaica</i> Steinmann, 1988	—	Tonga
<i>venusta</i> Steinmann, 1988	—	New Guinea

#### PARISOLABIDINAE, Verhoeff, 1904

Type-genus *Parisolabis* Verhoeff, 1904

***Parisolabis* Verhoeff, 1904**

(= *Pseudisolabis* Burr, 1908)

Type-species *Parisolabis novaezeelandiae* Verhoeff, 1904

**List of species**

<i>boulderensis</i> Hudson, 1973	—	New Zealand
<i>forsteri</i> Hudson, 1973	—	New Zealand
<i>iti</i> Hudson, 1973	—	New Zealand
<i>johnsi</i> Hudson, 1973	—	New Zealand
<i>nelsonensis</i> Hudson, 1973	—	New Zealand
<i>novaezeelandiae</i> Verhoeff, 1904	—	New Zealand
<i>renschii</i> (Günther, 1932)	—	Java
<i>setosa</i> Hudson, 1973	—	New Zealand
<i>tapanuiensis</i> Hudson, 1973	—	New Zealand

***Parisopsalis*, Burr, 1914**

Type-species *Parisopsalis spryi* Burr, 1914

**List of species**

<i>spryi</i> Burr, 1914	—	Australia
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**IDOLOPSALIDINAE, Steinmann, 1975**

Type-genus *Idolopsalis* Borelli, 1910

***Idolopsalis*, Borelli, 1910**

Type-species *Idolopsalis riveti* Borelli, 1910

**List of species**

<i>andeana</i> Burr, 1914	—	Ecuador
<i>azteca</i> (Dohrn, 1862)	—	From Mexico to Peru and Paraguay
<i>boargmeieri</i> Menozzsi, 1932	—	Brazil
<i>curta</i> Brindle, 1971	—	Ecuador

<i>gracilis</i> Brindle, 1966	—	Ecuador
<i>incerta</i> (Bormans, in Burr, 1903)	—	Ecuador
<i>koepcke</i> Brindle, 1966	—	Peru
<i>nigrita</i> Brindle, 1971	—	Brazil
<i>parva</i> Brindle, 1971	—	Brazil
<i>riveti</i> Borelli, 1910	—	Ecuador and Peru
<i>whymperi</i> Burr, 1914	—	Ecuador

## ISOLABOIDINAE Brindle, 1978

Type-genus *Isolaboides* Hincks, 1958*Isolaboides* Hincks, 1958( = *Paralaboides* Steinmann, 1990)Type-species *Pseudisolabis kosswigi* Burr, 1947**List of species**

<i>burri</i> (Borelli, 1909)	—	India (Kashmir) & Pakistan (Mountain Region)
<i>immsi</i> (Burr, 1913) ( = <i>Pseudisolabis jonathani</i> Kapoor & Katiyar, 1971) ( = <i>Pseudisolabis santokhi</i> Kapoor & Katiyar, 1971)	—	India (Himachal Pradesh)
<i>rimosus</i> Steinmann, 1983	—	India (Garhwal Hills)

**Uncertain species**

<i>elegans</i> (Hebard, 1917)	—	India (Himachal Pradesh)
<i>tenera</i> (Burr, 1910)	—	Pakistan (Punjab Muree)

## SUMMARY

The higher classification of Anisolabididae alongwith a key to subfamilies and a check-list of species is given. Besides, a key to various genera of Anisolabidinae is also provided. A new subfamily Placolabidinae is proposed for *Placolabis* Bey-Bienko. Several genera and

species, namely, *Capralabis* Brindle, *Neolabis* Brindle, *Foramenolabis* Steinmann, *Paraflexiolabis* Steinmann and *Heterolabis* Borelli and *Epilabis harlequin* Steinmann and *Gonolabis fiesta* Steinmann are synonymised. *Epilandex borellii* and *Euborellia mindanoensis* are proposed as new names for *Psalis burri* Borelli, 1905 and *Heterolabis punctata* Srivastava, 1978.

#### REFERENCES

- Burr, M. 1915. On the Male Genital Armature of the Dermaptera. II. Psalidae. *J. R. mir. Soc.*, **1915** 520-546.
- Sakai, S. 1982. Dermapterorum Catalogus Praeliminaris Pts. XIII-XIV, Pt. XIII, 633 pp., Pt. XIV, 260 pp. (Daito Bunka University).
- Srivastava, G. K. 1986: Notes on Indian species of the genus *Apolabis* Burr (Dermaptera Carcinophoridae). *Rec zool. Surv. India*, **83** (1 & 2) 1-12.
- Srivastava, G. K. 1996. Notes on Isolaboidinae (Insecta Dermaptera Anisolabididae) from the Indian subcontinent. *Rec. zool. Surv. India*, **95** (3-4) 147-159.
- Steinmann, H. 1981 A revision of the Indo-Australian *Gonolabis* Burr, 1900 species (Dermaptera Carcinophoridae). *Folia ent. hung.*, **42** (34) 2 187-195.
- Steinmann, H. 1981a. The Dermaptera of the Universitetes Zoologiske Museum, København. *Folia ent. hung.*, **42** (34) 1 173-192.
- Steinmann, H. 1990. Dermaptera Eudermaptera. I. *Das Tierreich* **106** 1-XVIII + 1 - 558 (Walter de Gruyter, Berlin, New York.).