

Taxonomic updates in scorpions (Arachnida: Scorpiones) since the publication of the Catalogue of the Scorpions of the World (1758-1998) (Fet, Sissom, Lowe, & Braunwalder, 2000). Part 1: Bothriuridae.

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Summary:

In the end of 2006, the Family Bothriuridae consists of 14 genera and 129 species: *Bothriurus* (41), *Brachistosternus* (36), *Brazilobothriurus* (1), *Centromachetes* (3), *Cercophonius* (7), *Lisposoma* (3), *Orobbothriurus* (9), *Pachakutej* (6), *Phoniocercus* (2), *Tehuanka* (1), *Thestylus* (3), *Timogenes* (5), *Urophonius* (11) & *Vachonia* (1).

Introduction:

Bothriuridae has representatives in South America, Africa (southern part), Asia (India) and Australia, where they are found in temperate and subtropical habitats. One genus has recently been discovered in the Himalayas (*Cercophonius*). Members of this family are found in small burrows, under stones, in cracks and crevices, and in self-made burrows up to 40 cm deep.

Methods:

Information about taxonomical changes in the period 1998 - 2006 has been collected through intensive searching in major databases like Zoological Records, Biological Abstracts, Pubmed (Medline) and others. Another important source of information has been researchers around the world sending me new papers on scorpion taxonomy, or informing me about new changes.

Results/Discussion:

New genera and species and genera and species that have undergone taxonomic updates since the Catalogue of the Scorpions of the World (Fet et al., 2000) are listed alphabetically. Genera- and species-names in brackets [] are no longer considered valid. Genera- and species-names in quotation marks “ ” are taxa with an unresolved status/incertae sedis. See the comments field for details.

***Bothriurus* Peters, 1861**

B. cerradoensis Lourenço, Motta, Siquerira Pitaliga Godoi & de Souza Araújo, 2004
Status: New species.
Distribution: Brazil

B. dumayi Cekalovic, 1974

Status: Original combination restored (Acosta & Ochoa, 2001).

Comment: Transferred back to *Bothriurus*, as originally described. Previous name *Orobothriurus dumayi* (Cekalovic, 1974).

B. jesuita Ojanguren Affilastro, 2003

Status: New species.

Distribution: Argentina.

B. keyserlingi Pocock, 1893

Status: Restoration of species status (Mattoni & Acosta, 2006)

Comment: Restored from synonymy with *Bothriurus coriaceus* Bücherl, 1963.

B. pampa Ojanguren Affilastro, 2002

Status: New species.

Distribution: Argentina.

B. pichicuy Mattoni, 2002

Status: New species.

Distribution: Chile.

B. picunche Mattoni, 2002

Status: New species.

Distribution: Chile.

B. pora Mattoni & Acosta, 2005

Status: New species.

Distribution: Brazil.

B. rochai occidentalis Lourenço, 2000

Status: New subspecies.

Distribution: Brazil.

***Brachistosternus* Pocock, 1893**

B. angustimanus Ojanguren Affilastro & Roig Alsina, 2001

Status: New species.

Distribution: Argentina

[*B. borellii* Kraepelin, 1911]

Status: Synonymised with *B. weyenberghi* (Thorell, 1876) by Ojanguren-Affilastro (2002b) .

B. cekalovici Ojanguren Affilastro, 2005

Status: New species.

Distribution: Chile.

B. galianoae Ojanguren Affilastro, 2002

Status: New species.

Distribution: Bolivia.

Comment: Collected at 4500 m. above sea level.

B. kovariki Ojanguren Affilastro, 2003

Status: New species.

Distribution: Chile.

B. mattonii Ojanguren Affilastro, 2005

Status: New species.

Distribution: Chile.

B. ninapo Ochoa, 2004

Status: New species.

Distribution: Peru.

B. ochoai Ojanguren Affilastro, 2004

Status: New species.

Distribution: Chile.

B. paulae Ojanguren Affilastro

Status: New species.

Distribution: Argentina.

B. perettii Ojanguren Affilastro & Mattoni, 2006

Status: New species.

Distribution: Chile.

B. peruvianus Toledo Piza, 1974

Status: Confirmation of species status.

Comment: The World Catalogue (Fet et al., 2000) listed this species as synonymised with *B. andinus* Chamberlin, 1916 by Maury (1978). Maury only suggested the possibility that these two species should be synonymised, but did not formally do so (Ojanguren-Affilastro, personal communication). Ochoa (2005) listed both *B. andinus* and *B. peruvianus* as separate species and also presented different distribution for the two species. Based on this I choose to regard *B. peruvianus* as a valid species.

B. piacentinii Ojanguren Affilastro, 2003

Status: New species.

Distribution: Bolivia & Chile.

Comment: This species occurs at 4.500 meters (Ojanguren Affilastro, personal communication).

B. prendinii Ojanguren Affilastro, 2003

Status: New species.

Distribution: Chile.

B. quiscapata Ochoa & Acosta, 2002

Status: New species.

Distribution: Chile and Peru.

B. roigalsinai Ojanguren Affilastro, 2002

Status: New species.

Distribution: Chile.

B. sciosciae Ojanguren Affilastro, 2002

Status: New species.

Distribution: Chile.

B. simoneae Lourenço, 2000

Status: New species.

Distribution: Brazil.

B. telteca Ojanguren Affilastro, 2000

Status: New species.

Distribution: Argentina.

B. titicaca Ochoa & Acosta, 2002

Status: New species.

Distribution: Bolivia & Peru.

B. turpuq Ochoa, 2002

Status: New species.

Distribution: Peru.

B. weyenberghi (Thorell, 1876)

Status: Nomenclatural correction (Acosta & Fet, 2005).

Comment: Previous name [*B. weyenberghii* (Thorell, 1876)].

B. zambrunoi Ojanguren Affilastro, 2002

Status: New species.

Distribution: Argentina.

[*Brandbergia* Prendini, 2003]

Prendini (2003) described this genus from Namibia with one species, *B. haringtoni* Prendini, 2003. Fet, Soleglad & Kovarik (2004) synonymised *Brandbergia* with *Lisposoma* Lawrence, 1928. Prendini & Wheeler (2005) challenged this decision, but the synonymy was upheld by Fet & Soleglad (2005).

[*B. haringtoni* Prendini, 2003]

Status: New species (Prendini, 2003).

Comment: New name *Lisposoma haringtoni* (Prendini, 2003). See genus comments above for more details.

***Brazilobothriurus* Lourenço & Monod, 2000**

New genus with one species published by Lourenço & Monod (2000). The genus is only known from Brazil.

B. pantanalensis Lourenço & Monod, 2000

Status: New species.

Distribution: Brazil.

***Lisposoma* Lawrence, 1928**

L. haringtoni (Prendini, 2004)

Status: New combination (Fet et al., 2004).

Comment: Genus *Brandbergia* Prendini, 2003 was synonymized by Fet, Soleglad & Kovarik (2004). See comments for *Brandbergia* for more information.

L. josehermana Lamoral, 1979

Status: Nomenclatural correction (Acosta & Fet, 2005).

Comment: Previous name *L. josehermanorum* Lamoral, 1979.

***Orobothriurus* Maury, 1975**

O. atiquipa Ochoa & Acosta, 2002

Status: New species.

Distribution: Peru.

O. bivittatus (Thorell, 1877)

Status: New status and new combination (Acosta, 2005).

Comment: Previous name *Urophonius brachycentrus bivittatus* (Thorell, 1876) has been in synonymy with *Orobothriurus alticola* (Pocock, 1899).

O. famatina Acosta & Ochoa, 2001

Status: New species.

Distribution: Argentina.

[*O. iskay* Acosta & Ochoa, 2001]

Status: New species (Acosta & Ochoa, 2001).

Distribution: Peru.

Comment: Transferred to *Pachakutej* Ochoa, 2004. New name is *Pachakutej iskay* (Acosta & Ochoa, 2001).

O. lourencoi Ojanguren Affilastro, 2003

Status: New species.

Distribution: Chile.

O. wawita Acosta & Ochoa, 2000

Status: New species.

Distribution: Peru.

***Pachakutej* Ochoa, 2004**

A new genus from Peru described by Ochoa (2004b), with some new species and some species transferred from *Orobothriurus* Maury, 1975. An identification key to the new genus is included in the article.

P. crassimanus (Maury, 1976)

Status: New combination (Ochoa, 2004b).

Comment: Previous name *Orobothriurus crassimanus* Maury, 1976.

P. inca (Maury, 1976)

Status: New combination (Ochoa, 2004b).

Comment: Previous name *Orobothriurus inca* Maury, 1976.

P. iskay (Acosta & Ochoa, 2001)

Status: New combination (Ochoa, 2004b).

Comment: Previous name *Orobothriurus iskay* Acosta & Ochoa, 2001.

P. juchuicha Ochoa, 2004

Status: New species.

Distribution: Peru.

P. oscar Ochoa, 2004

Status: New species.

Distribution: Peru.

P. peruvianus (Mello-Leitão, 1948)

Status: New combination (Ochoa, 2004b).

Comment: Previous name *Orobothriurus peruvianus* Mello-Leitão, 1948.

***Thestylus* Simon, 1880**

T. aurantiurus Yamaguti & Pinto-da-Rocha, 2003

Status: New species.

Distribution: Brazil.

[*T. glasioui lineatus*, Giltay, 1928]

Status: Synonymization (Yamaguti & Pinto da Rocha, 2003).

Comment: Synonymized with *Thestylus glasioui* (Bertkau, 1880).

“*T. signatus* Mello-Leitão, 1931”

Status: Species inquirenda (Yamaguti & Pinto da Rocha, 2003)

Comment: Holotype is lost. See Yamaguti & Pinto da Rocha (2003) for details.

***Urophonius* Pocock, 1893**

U. iheringi Pocock, 1893

Status: Nomenclatural correction (Acosta & Fet, 2005).

Comment: Previous name *Urophonius iheringii* Pocock, 1893.

U. somuncura Acosta, 2003
Status: New species.
Distribution: Argentina.

U. transandinus Acosta, 1998
Status: New species.
Distribution: Chile.

In the end of 2006, the family Bothriuridae has the following genera and species (* denotes new taxa or taxa that have been change since the World Catalog (Fet et al., 2000)):

Bothriurus Peters, 1861
B. araguayae Vellard, 1934
B. asper Pocock, 1893
B. bertae Abalos, 1955
B. bocki Kraepelin, 1911
B. bonariensis(C.L. Koch, 1842)
B. buecherli San Martín, 1934
B. burmeisteri Kraepelin, 1894
B. cerradoensis Lourenço, Motta, Godoi & Araújo 2004*
B. chacoensis Maury & Acosta, 1993
B. chilensis (Molina, 1782)
B. cordubensis Acosta, 1955
B. coriaceus Pocock, 1893
B. dumayi (Cekalovic, 1974)*
B. flavidus Kraepelin, 1911
B. guarani Maury, 1984
B. illudens Mello-Leitão, 1947
B. inermis Maury, 1981
B. jesuita Ojanguren Affilastro, 2003*
B. keyserlingi Pocock, 1893*
B. maculatus Kraepelin, 1911
B. mochaensis Cekalovic, 1982
B. moojeni Mello-Leitão, 1945
B. noa Maury, 1984
B. olaen Acosta, 1997
B. pampa Ojanguren Affilastro, 2002*
B. patagonicus Maury, 1968
B. pichicuy Mattoni, 2002*
B. picunche Mattoni, 2002*
B. pora Mattoni & Acosta, 2005*
B. prospicius Mello-Leitão, 1932
B. rochai Mello-Leitão, 1932
B. rochensis San Martín, 1965
B. rubescens Mello-Leitão, 1947
B. signatus Pocock, 1893
B. sooretamensis San Martín, 1966
B. trivittatus Werner, 1939

Brachistosternus Pocock, 1893
B. alienus Lönnberg, 1898
B. andinus Chamberlin, 1916
B. angustimanus Ojanguren Affilastro & Roig Alsina, 2001*
B. artigasi Cekalovic, 1974
B. castroi Mello-Leitão, 1940
B. cekalovici Ojanguren Affilastro, 2005*
B. chilensis Kraepelin, 1911
B. donosoi Cekalovic, 1974
B. ehrenbergii (Gervais, 1841)
B. ferrugineus (Thorell, 1876)
B. galianoae Ojanguren Affilastro, 2002*
B. holmbergi Carbonell, 1923
B. intermedius Lönnberg, 1902
B. kovariki Ojanguren Affilastro, 2003*
B. mattonii Ojanguren Affilastro, 2005*
B. montanus Roig Alsina, 1977
B. multidentatus Maury, 1984
B. negrei Cekalovic, 1975
B. ninapo Ochoa, 2004*
B. ochoai Ojanguren Affilastro, 2004*
B. paulae Ojanguren Affilastro, 2003*
B. pegnai Cekalovic, 1969
B. penteri Mello-Leitão, 1931
B. perettii Ojanguren Affilastro & Mattoni, 2006*
B. peruvianus Toledo, Piza, 1974*
B. piacentinii Ojanguren Affilastro, 2003*
B. prendini Ojanguren Affilastro, 2003*
B. quiscapata Ochoa & Acosta, 2002*
B. roigalsinai Ojanguren Affilastro, 2002*
B. sciosciae Ojanguren Affilastro, 2002*
B. simoneae Lourenço, 2000*
B. telteca Ojanguren Affilastro, 2000*
B. titicaca Ochoa & Acosta, 2002*
B. turpuq Ochoa, 2002*
B. weyenberghi (Thorell, 1876)

B. vachoni San Martín, 1968
B. vittatus (Guerin Meneville, 1838)
B. voyati Maury, 1973
B. wilhelmi Cekalovic, 1976
B. ypsilon Mello-Leitão, 1935

Centromachetes Lønneberg, 1897
C. obscurus Mello-Leitão, 1932
C. pocockii (Kraepelin, 1894)
C. titschaki (Werner, 1939)

Lisposoma Lawrence, 1928
L. elegans Lawrence, 1928
L. haringtoni (Prendini, 2003)*
L. josehermana Lamoral, 1979

Orobothriurus Maury, 1975
O. alticola (Pocock, 1899)
O. atiquipa Ochoa & Acosta, 2002*
O. bivittatus (Thorell, 1877)*
O. curvidigitus (Kraepelin, 1911)
O. famatina Acosta & Ochoa, 2001*
O. lourençoi Ojanguren Affilastro, 2003*
O. paessleri (Kraepelin, 1911)
O. parvus Maury, 1975
O. wawita Acosta & Ochoa, 2000*

Tehuanka Cekalovic, 1973
T. moyanoi Cekalovic, 1973

Timogenes Simon, 1880
T. dorbignyi (Guérin Méneville, 1843)
T. elegans (Mello-Leitão, 1931)
T. haplochirus Maury & Roig Alsina, 1977
T. mapuche Maury, 1975
T. sumatranus Simon, 1880

Vachonia Abalos, 1954
V. martinezi Abalos, 1954

B. zambrunoi Ojanguren Affilastro, 2002*

Brazilobothriurus Lourenço & Monod, 2000*
B. pantanalensis Lourenço & Monod, 2000*

Cercophonius Peters, 1861
C. granulatus Kraepelin, 1908
C. himalayensis Lourenço, 1996
C. kershawi Glauert, 1930
C. michaelsoni Kraepelin, 1908
C. queenslandae Acosta, 1990
C. squama (Gervais, 1843)
C. sulcatus Kraepelin, 1908

Pachakutej Ochoa, 2004*
P. crassimanus (Maury, 1975)*
P. inca (Maury, 1975)*
P. iskay (Acosta & Ochoa, 2001)*
P. juchuicha Ochoa, 2004*
P. oscari Ochoa, 2004*
P. peruvianus (Mello-Leitão, 1948)*

Phoniocercus Pocock, 1893
P. pictus Pocock, 1893
P. sanmartini Cekalovic, 1968

Thestylus Simon, 1880
T. aurantiurus Yamaguti & Pinto-da-Rocha, 2003*
T. glasioui Bertkau, 1880
T. signatus Mello-Leitão, 1931 (Species inquirenda)

Urophonius Pocock, 1893
U. achalensis Abalos & Hominal, 1974
U. brachycentrus (Thorell, 1876)
U. eugenicus (Mello-Leitão, 1931)
U. exochus (Penther, 1913)
U. granulatus Pocock, 1898
U. iheringi Pocock, 1893
U. mahuidensis Maury, 1973
U. somuncura Acosta, 2003*
U. transandinus Acosta, 1998*
U. tregualemuensis Cekalovic, 1981
U. tumbensis Cekalovic, 1981

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