SOME NOMENCLATURAL CHANGES FOR ACARI (IXODIDA AND ORIBATIDA)

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ABSTRACT: The paper gives remarks on the nomenclatural validity of the subgenus name Segalia Dias, 1968 and the genus name Hammeriella Paschoal, 1989. In addition to this, some junior homonyms were detected among the oribatid mite genus group names and the following replacement names are proposed: Fberninia nom. nov. for Berniniella Özdikmen, 2008; Zetorchella Berlese, 1916 for Chaunoproctus Pearce, 1906 and Salveus nom. nov. for Pterobates Balogh & Mahunka, 1977. Accordingly, new combinations are herein proposed for the species currently included in these genus group names. Two family group names Zetorchellidae nom. nov. and Salvidae nom. nov. are also proposed for Chaunoproctidae Balogh, 1961 and Pterobatidae Balogh & Mahunka, 1977 respectively.

KEY WORDS: nomenclatural changes, homonymy, replacement names, Acari, Ixodida, Oribatida.

Order IXODIDA
Family IXODIDAE
Genus HAEMAPHYSALIS Koch, 1844
Subgenus SEGALIA Dias, 1968


Remarks on the validity of the subgenus name Segalia Dias, 1968: Firstly, Özdikmen (2008) stated that the genus group name Fonsecaia Dias, 1963 (Acari) was a junior homonym of the genus Fonsecaia Pinto, 1918 (Protozoa). So he proposed a new replacement name Diasjatia Özdikmen, 2008 for the subgenus name Fonsecaia Dias, 1963. Unfortunately, Diasjatia Özdikmen, 2008 is an unnecessary replacement name. Since Fonsecaia Dias, 1963 has at least two synonyms as Segalia Dias, 1968 and Paraphysalis Hoogstraal, 1974. So I propose that the senior synonym name Segalia Dias, 1968 must be used as a valid name and a replacement name for the subgenus name Fonsecaia Dias, 1963 under ICZN (1999).

Summary of nomenclatural changes:

Segalia Dias, 1968
  = Fonsecaia Dias, 1963 (non Pinto, 1918) [preoccupied].
  = Paraphysalis Hoogstraal, 1974 [synonym]
  = Diasjatia Özdikmen, 2008 [unnecessary replacement name for Fonsecaia Dias, 1963]
Haemaphysalis (Segalia) montgomeryi (Nuttall, 1912)
= Haemaphysalis (Fonsecaia) montgomeryi (Nuttall, 1912).

Order ORIBATIDA
Family HAMMERIELLIDAE
Genus HammeRIELLA Paschoal, 1989


Paschoalia Subias, 2004 [a replacement name for Hammeriella Paschoal, 1989].

Remarks on the validity of the genus name Hammeriella Paschoal, 1989: Subias (2004b) proposed a replacement name Paschoalia Subias, 2004 for Hammeriella Paschoal, 1989. Since he wrongly accepted Hammeriella Paschoal, 1989 was a junior homonym of Hammerella Balogh, 1983. However, these generic names are not homonyms according to article 56.2 of the Code (ICZN, 1999). So Paschoalia Subias, 2004 is an unnecessary replacement name and invalid. Finally, Hammeriella Paschoal, 1989 must be used as a valid name under the Code.

Summary of nomenclatural changes:

Hammeriella Paschoal, 1989
= Paschoalia Subia, 2004 [wrongly proposed unnecessary replacement name for Hammeriella Paschoal, 1989]

Family ORIBATELLIDAE
Genus FBERNINIA nom. nov.


Remarks: Özdikmen (2008) proposed a new replacement name Berniniella Özdikmen, 2008 for the genus name Cavernella Bernini, 1975. Unfortunately, the generic name was already preoccupied by Balogh (1983), who had described the genus Berniniella with the type species Oppia aeoliana Bernini, 1973 in Acari. Thus, the genus name Berniniella Özdikmen, 2008 is a junior homonym of the generic name Berniniella Balogh, 1983. So I propose a new replacement name Fberninia nom. nov. for Berniniella Özdikmen, 2008.

Etymology: The genus name “Fberninia” is dedicated to F. Bernini.

Summary of nomenclatural changes:

Fberninia nom. nov.
= Cavernella Bernini, 1975 (non Morozova, 1974).
Berniniella Özdikmen, 2008

Fberniniella helenae (Bernini, 1975) comb. nov.
= Cavernella helenae Bernini, 1975
= Berniniella helenae (Bernini, 1975)

Family ZETORCHELLIDAE nom. nov.
Genus ZETORCHELLA Berlese, 1916


Remarks on nomenclatural change: The monotypic fossil genus Chaunoproctus was described by Bonaparte & Schlegel (1850) with the type species Chaunoproctus ferreorostris (Vigors, 1829) in the family Fringillidae (Aves: Passeriformes). It is currently a valid generic name in Aves.

The oribatid mite genus Chaunoproctus was proposed by Pearce (1906) with the type species Chaunoproctus cancellatus Pearce, 1906 from India in Acari (Trave, 1976; Mahunka, 1992). The name is currently used as a valid generic name in Oribatida as the type genus of the family Chaunoproctidae Balogh, 1961. Subias (2004) used Caloppiidae Balogh, 1960 for this group as family name. Type genus of Caloppiidae Balogh, 1960 is Caloppia Balogh, 1958 (type sp. Caloppia basilewskyi Balogh 1958). On the other side, Caloppia Balogh, 1958 is a junior subjective synonym of the genus Chaunoproctus Pearce, 1906 now. So I think that Subias (2004a) preferred Caloppiidae instead of Chaunoproctidae as family name due to priority.

However, the name Chaunoproctus Pearce, 1906 is invalid under the rule of homonymy, being a junior homonym of Chaunoproctus Bonaparte & Schlegel, 1850. Under the International Code of Zoological Nomenclature (ICZN 1999) it must be rejected and replaced. Chaunoproctus Pearce, 1906 has three junior subjective synonyms as Zetorchella Berlese, 1916, Caloppia Balogh, 1958 and Pabulozetes Tseng, 1912. So, in accordance with article 60 of the International Code of Zoological Nomenclature, fourth edition (1999), I propose to substitute the junior homonym Chaunoproctus Pearce, 1906 for the senior synonym Zetorchella Berlese, 1916.

As a result of this, Chaunoproctus Pearce, 1906 is replaced with the name Zetorchella Berlese, 1916.

In addition to this, I herein propose the replacement name Zetorchellidae new name for the family name Chaunoproctidae because its type genus Chaunoproctus Pearce, 1906 is invalid and the type genus of a family-group name must be valid.
SYSTEMATICS

Order Oribatida
Family Zetorchellidae new name
= Chaunoproctidae Balogh, 1961
= Caloppiidae Balogh, 1960

Type genus.—Zetorchella Berlese, 1916.
Remarks.—The name Chaunoproctus has been used in Oribatida as a stem for a family-group name, and should be automatically replaced with the new name. According to Subias (2004), the family Zetorchellidae includes 22 species of 4 genera. These genera are Zetorchella Berlese, 1916 (16 species), Stelechobates Grandjean, 1965 (2 species); Brassiella Balogh, 1970 (1 species), Chaunoproctellus Mahunka, 1992 (3 species).

Genus Zetorchella Berlese, 1916
Chaunoproctus Pearce, 1906, junior homonym of Chaunoproctus Bonaparte & Schlegel, 1850.
Type species.— Zetorchella pedestris Berlese, 1916 by original designation.
Species account and distribution: 16 species; known from Pantropical area.

The following new combinations are proposed and the species is removed from Chaunoproctus:

Zetorchella Berlese, 1916
= Chaunoproctus Pearce, 1906 [preoccupied by Chaunoproctus Bonaparte & Schlegel, 1850]
= Caloppiia Balogh, 1958 [junior subjective synonym]
= Pabulozetes Tseng, 1982 [junior subjective synonym]

Zetorchella abalai (Bhaduri, Bhattacharya and Chakrabarti, 1975) comb. nov.
= Chaunoproctus abalai Bhaduri, Bhattacharya and Chakrabarti, 1975
DIST.: N India.

Zetorchella asperulus (Pearce, 1906) comb. nov.
= Chaunoproctus asperulus Pearce, 1906
DIST.: India (Sikkim).

Zetorchella basilewskyi (Balogh, 1958) comb. nov.
= Caloppiia basilewskyi Balogh, 1958
= Chaunoproctus basilewskyi (Balogh, 1958)
DIST.: Congo.

Zetorchella cancellatus (Pearce, 1906) comb. nov.
= Chaunoproctus cancellatus Pearce, 1906
DIST.: India (Sikkim).

Zetorchella deleoni (Higgins, 1966) comb. nov.
= Chaunoproctus deleoni Higgins, 1966
DIST.: British Guiana [Guyana].
Zetorchella latior (Berlese, 1913) **comb. nov.**
   = Oppia latior Berlese, 1913
   = Chaunoproctus latior (Berlese, 1913)
   = Chaunoproctus clavisetosus Bhaduri, Bhattacharya and Chakrabarti, 1975
DIST.: Oriental.

Zetorchella longipilosus (Mahunka, 1974) **comb. nov.**
   = Caloppia longipilosus Mahunka, 1974
   = Chaunoproctus longipilosus (Mahunka, 1974)
DIST.: Zimbabwe.

Zetorchella longisetosus (Dhali and Bhaduri, 1981) **comb. nov.**
   = Chaunoproctus longisetosus Dhali and Bhaduri, 1981
DIST.: India (Sikkim).

Zetorchella minor (Balogh, 1958) **comb. nov.**
   = Caloppia minor Balogh, 1958
   = Chaunoproctus minor (Balogh, 1958)
DIST.: Angola to India.

Zetorchella orbiculatus (Wen and Zhao, 1994) **comb. nov.**
   = Chaunoproctus orbiculatus Wen and Zhao, 1994
DIST.: China.

Zetorchella pedestris Berlese, 1916
   = Chaunoproctus pedestris (Berlese, 1916)
   = Caloppia papillata Balogh, 1958
   = Chaunoproctus crinitus Karppinen, 1966
DIST.: Ethiopia.

Zetorchella plumosus (Tseng, 1982) **comb. nov.**
   = Pabulozetes plumosus Tseng, 1982
   = Chaunoproctus plumosus (Tseng, 1982)
DIST.: Taiwan [Formosa].

Zetorchella reticulatus (Willmann, 1933) **comb. nov.**
   = Lucoppia reticulatus Willmann, 1933
   = Chaunoproctus reticulatus (Willmann, 1933)
DISTRIBUCIÓN: Sumatra.

Zetorchella sejugatus (Ramani and Haq, 1997) **comb. nov.**
   = Caloppia sejugatus Ramani and Haq, 1997
   = Chaunoproctus sejugatus (Ramani and Haq, 1997)
DIST.: India (Kerala).

Zetorchella sottoetgarciai (Corpuz-Raros, 1979) **comb. nov.**
   = Caloppia sottoetgarciai Corpuz-Raros, 1979
   = Chaunoproctus sottoetgarciai (Corpuz-Raros, 1979)
DIST.: Filipinas.

Zetorchella vargai (Balogh, 1959) **comb. nov.**
   = Caloppia vargai Balogh, 1959
   = Chaunoproctus vargai (Balogh, 1959)
DIST.: Tanzania.
Family SALVIDAE nom. nov.
Genus SALVUS nom. nov.


Remarks on nomenclatural change: The monotypic fly genus Pterobates was described by Bezzi (1921) with the type species Anthrax pennipes Wiedemann, 1821 in the family Bombyliidae (Diptera). It is currently a valid generic name in Diptera (e.g. Evenhuis, 2007).

The monotypic oribatid mite genus Pterobates was proposed by Balogh & Mahunka (1977) with the type species Pterobates incertus Balogh & Mahunka, 1977 from Brazil in Acari. The name is currently used as a valid generic name in Oribatida as the type genus of the family Pterobatidae Balogh & Mahunka, 1977.

However, the name Pterobates Balogh & Mahunka, 1977 is invalid under the rule of homonymy, being a junior homonym of Pterobates Bezzi, 1921. Under the International Code of Zoological Nomenclature (ICZN 1999) it must be rejected and replaced. Pterobates Balogh & Mahunka, 1977 has no any synonym name now. So, in accordance with article 60 of the International Code of Zoological Nomenclature, fourth edition (1999), I propose to substitute the junior homonym Pterobates Balogh & Mahunka, 1977 for the nomen novum Salvus.

As a result of this, Pterobates Balogh & Mahunka, 1977 is replaced with the name Salvus nom. nov.

In addition to this, I herein propose the replacement name Salvidae new name for the family name Pterobatidae because its type genus Pterobates Balogh & Mahunka, 1977 is invalid and the type genus of a family-group name must be valid.

SYSTEMATICS

Order Oribatida
Family Salvidae new name = Pterobatidae Balogh & Mahunka, 1977

Type genus.—Salvus nom. nov.
Remarks.—The name Pterobates has been used in Oribatida as a stem for a family-group name, and should be automatically replaced with the new name. According to Subias (2004), the family Salvidae nom. nov. includes only 1 species of 1 genera.

Genus Salvus nom. nov.
Type species.—Pterobates incertus Balogh & Mahunka, 1977 by original designation.
**Etymology.**—from the Latin word “salvus” meaning alive, good, original in English.

**Species account and distribution:** 1 species as the type species; known from Neotropical region.

The following new combination is proposed and the species is removed from *Pterobates:*

*SALVUS* nom. nov.
*Salvus incertus* (Balogh & Mahunka, 1977) comb. nov.

= *Pterobates incertus* Balogh & Mahunka, 1977

DIST.: Brazil.

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**LITERATURE CITED**


