

**BERTOLANIUS NOM. NOV., A REPLACEMENT NAME  
FOR THE GENUS *AMPHIBOLUS* BERTOLANI, 1981  
(TARDIGRADA: PARACHELA) WITH TYPE SPECIES  
DESIGNATION**

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**ABSTRACT:** A junior homonym was detected amongst the tardigrade genera and the following replacement name is proposed: *Bertolanius* nom. nov. for *Amphibolus* Bertolani, 1981. Accordingly, new combinations are herein proposed for the species currently included in this genus. Also the oldest species, *Amphibolus smreczynskii* (Węglarska, 1970) is herein designated as the type species for *Amphibolus* Bertolani, 1981 that is unavailable name without type species according to ICZN (1999).

**KEY WORDS:** nomenclatural change, homonymy, replacement name, Tardigrada.

**Phylum Tardigrada**  
**Class Eutardigrada**  
**Order Parachelida**  
**Family Eohypsibiidae**  
**Genus *Bertolanius* nom. nov.**

*Amphibolus* Bertolani, 1981. *Bollettino Zool.* 48 (2): 201. (Tardigrada: Eutardigrada: Parachelida: Hypsibioidea: Eohypsibiidae). Preoccupied by *Amphibolus* Klug, 1830. In Ehrenberg, Sym. Phys., Ins. 2, sign. e. (Insecta: Hemiptera: Heteroptera: Reduviidae: Harpactorinae: Harpactorini).

**Remarks:** The *Amphibolus* Bertolani, 1981 was established for a tardigrade genus (type species not given). The family Amphibolidae was proposed by Bertolani (1981). It's the type genus is *Amphibolus* Bertolani, 1981. Unfortunately, the family name Amphibolidae (Tardigrada) was preoccupied with the family name Amphibolidae (Mollusca) that is the type genus is *Amphibola* Schumacher, 1817. For this reason, the family name Amphibolidae (Tardigrada) was changed by Bertolani & Kristensen (1987) with the name Eohypsibiidae. For the present, the family Eohypsibiidae has 3 genera as *Amphibolus* Bertolani, 1981; *Apodibius* Dastych, 1983 and *Eohypsibus* Kristensen, 1981. *Amphibolus* Bertolani, 1981 is still used as a valid genus name in the family Eohypsibiidae. The genus includes 6 species as *Amphibolus mahunkai* (Iharos, 1971) (Guidetti & Bertolani, 2005); *Amphibolus markevichi* Bisarov, 1992 (Guidetti & Bertolani, 2005); *Amphibolus nebulosus* Dastych, 1983 (Maucci, 1991 and 1996; Bisarov, 1996; Guidetti & Bertolani, 2005); *Amphibolus smreczynskii* (Węglarska, 1970) (Guidetti & Bertolani,

2005); *Amphibolus volubilis* (Durante Pasa & Maucci, 1975) (Bertolani & Rebecchi, 1996; Guidetti & Bertolani, 2005) and *Amphibolus weglaarskae* (Dastych, 1972) (Bertolani & Rebecchi, 1996; Guidetti & Bertolani, 2005).

Nevertheless the name *Amphilobus* is already occupied. Klug (1830) established a true bug *Amphilobus* with the type species *Amphilobus venator* (Klug, 1830) in Heteroptera (Hemiptera). Also it is still used as a valid genus name in Reduviidae (e.g. Viskens, 2001; Forero et al., 2004). The genus *Amphilobus* Klug, 1830 (Harpactorinae) described from Northern Africa. The currently known distribution of *A. venator* (Northern Africa and the Middle East, Jamaica, India, Japan) is supplemented by new locality data from Venezuela, Canada and India. The genus *Amphilobus* Klug, 1830 includes 11 species as *Amphilobus arabicus* Miller, 1954; *Amphilobus beduinus* Puton, 1881; *Amphilobus cambei* Dispops, 1955; *Amphilobus francoi* Dispops, 1951; *Amphilobus imperialis* Dispops, 1951; *Amphilobus kerimii* Reuter, 1884; *Amphilobus leucopterus* (Horváth, 1882); *Amphilobus linnauviorii* Villiers, 1970; *Amphilobus maroccanus* Dispops, 1951; *Amphilobus rotroui* (Bergevin, 1932) and *Amphilobus venator* (Klug, 1830).

On the other side, *Amphilobus* Bertolani, 1981 is an unavailable name without type species according to ICZN (1999) now. So the oldest species of the genus, *Amphilobus smreczynskii* (Węglarska, 1970) which is described as *Isohypsius smreczynskii* Węglarska, 1970 and transferred by Bertolani (1981) to the genus *Amphilobus*, is herein designated as the type species of *Amphilobus* Bertolani, 1981.

However, the tardigrade genus *Amphilobus* Bertolani, 1981 is a junior homonym of the genus *Amphilobus* Klug, 1830. In accordance with Article 60 of the International Code of Zoological Nomenclature, Fourth Edition (1999), I suggest here that the name *Bertolanius* should be erected as a replacement name for *Amphilobus* Bertolani, 1981 not *Amphilobus* Klug, 1830.

**Etymology:** from Roberto Bertolani who current author name of the preexisting genus *Amphilobus*.

**Summary of nomenclatural changes:**

***Bertolanius nom. nov.***

= *Amphilobus* Bertolani, 1981 (non Klug, 1830).

***Bertolanius mahunkai* (Iharos, 1971) comb. nov.**

= *Macrobiotus mahunkai* Iharos, 1971

= *Amphilobus mahunkai* (Iharos, 1971)

[transferred by Bertolani & Kristensen 1987]

***Bertolanius markevichi* (Biserov, 1992) comb. nov.**

= *Amphilobus markevichi* Biserov, 1992

*Bertolanius nebulosus* (Dastych, 1983) **comb. nov.**  
 = *Amphibolus nebulosus* Dastych, 1983

Type species: *Bertolanius smreczynskii* (Wêglarska, 1970) **comb. nov.**  
 = *Isohypsibus smreczynskii* Wêglarska, 1970  
 = *Amphibolus smreczynskii* (Wêglarska, 1970)  
 [transferred by Bertolani, 1981]

*Bertolanius volubilis* (Durante Pasa & Maucci, 1975) **comb. nov.**  
 = *Isohypsibus volubilis* Durante Pasa & Maucci, 1975  
 = *Amphibolus volubilis* (Durante Pasa & Maucci, 1975)  
 [transferred by Bertolani, 1981]

*Bertolanius weglarskiae* (Dastych, 1972) **comb. nov.**  
 = *Isohypsibus weglarskiae* Dastych, 1972  
 = *Amphibolus weglarskiae* (Dastych, 1972)  
 [transferred by Bertolani, 1981]

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