

Actual checklist of Tardigrada species (2009-2019, 35th Edition: 31-07-2019)

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Introduction

More than one thousand Tardigrada species were included in the published checklist (Guidetti, R. & Bertolani, R. 2005. **Tardigrade taxonomy: an updated check list of the taxa and a list of characters for their identification. *Zootaxa*, 845, 1–46.**) plus the additions and corrections to this checklist (Degma, P. & Guidetti, R. 2007. **Notes to the current checklist of Tardigrada. *Zootaxa*, 1579, 41–53.**) For practical reasons, we have joined these two papers (without comments added to particular taxa as well as without references published in these papers) into an accurate combined version of the checklists. We incorporated all taxonomical novelties in the current edition of the Checklist even if they were published just online. Then, following the International Code of Zoological Nomenclature, we corrected the year of a taxon description in its print edition. This checklist is free for all users, but utilization of it requires the citation of the two original papers. This checklist is the platform for occasional upgrades (date of latest upgrade is in the title). All changes, additions and corrections in comparison with both papers are written in red font, the changings respect to the previous version of the checklist have yellow background.

If you also use these changes, please also cite this checklist (Degma, P., Bertolani, R. & Guidetti, R. **Actual checklist of Tardigrada species. <http://www.tardigrada.modena.unimo.it/miscellanea/Actual%20checklist%20of%20Tardigrada.pdf>, pp. 48. Accessed date).**

Currently there are 30 families, 142 genera, 1298 species and 34 additional subspecies included in the checklist.

Please write us if you find any mistake or missing data in this checklist. Your help in its improvement will be acknowledged.

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Checklist of Tardigrada

(The assignment of synonyms are reported within square parenthesis ‘ [] ’. Amendments are reported within angle brackets ‘ < > ’. Comments are reported within brace parenthesis ‘ { } ’. The species written in bold characters are the genus *type species*)

Phylum: TARDIGRADA Doyère, 1840

Class: HETEROTARDIGRADA Marcus, 1927

Order: ARTHROTARDIGRADA Marcus, 1927

Family: Archechiniscidae Binda, 1978

<Jørgensen *et al.* 2010 reconsider valid the family>
[Archechiniscinae in Grimaldi de Zio & D'Addabbo Gallo, 1987]

Archechiniscus Schulz, 1953

Archechiniscus bahamensis Bartels, Fontoura & Nelson, 2018

Archechiniscus biscaynei Miller, Clark & C. Miller, 2012

Archechiniscus marci Schulz, 1953

Archechiniscus minutus Grimaldi de Zio & D'Addabbo Gallo, 1987

Archechiniscus symbalanus Chang & Rho, 1998

Family: Batillipedidae Ramazzotti, 1962
[Discopodidae Marcus, 1934]

Batillipes Richters, 1909

Batillipes acaudatus Pollock, 1971

Batillipes acuticauda Menechella, Bulnes & Cazzaniga, 2015

Batillipes adriaticus Grimaldi de Zio, Morone De Lucia, D'Addabbo Gallo & Grimaldi, 1979

Batillipes africanus Morone De Lucia, D'Addabbo Gallo & Grimaldi de Zio, 1988

Batillipes algharbensis Santos, Rubal, Veiga, da Rocha & Fontoura, 2018

Batillipes amblypyge Menechella, Bulnes & Cazzaniga, 2017

Batillipes annulatus de Zio, 1962

Batillipes brasiliensis E. Santos, da Rocha, Gomes Jr. & Fontoura, 2017

Batillipes bullacaudatus McGinty & Higgins, 1968

Batillipes carnonensis Fize, 1957

Batillipes crassipes Tchesunov & Mokievsky, 1995
Batillipes dandarae E. Santos, da Rocha, Gomes Jr. & Fontoura, 2017
Batillipes dicrocercus Pollock, 1970
Batillipes friaufi Riggan, 1962
Batillipes gilmartini McGinty, 1969
Batillipes lesteri Kristensen & Mackness, 2000
Batillipes lingularum Menechella, Bulnes & Cazzaniga, 2017
Batillipes littoralis Renaud-Debyser, 1959
Batillipes longispinosus Chang & Rho, 1997
Batillipes lusitanus Santos, Rubal, Veiga, da Rocha & Fontoura, 2018
Batillipes marcelli Morone De Lucia, D'Addabbo Gallo & Grimaldi de Zio, 1988
Batillipes mirus Richters, 1909 [*Batillipes caudatus* Hay, 1917]
Batillipes minius Rubal, Veiga, Fontoura & Sousa-Pinto, 2016
Batillipes noerrevangi Kristensen, 1978
Batillipes orientalis Chang & Rho, 1997
Batillipes pennaki Marcus, 1946
Batillipes philippinensis Chang & Rho, 1997
Batillipes phreaticus Renaud Debyser, 1959 [*Batillipes littoralis submersus* D'Hondt, 1970]
Batillipes potiguarensis E. Santos, da Rocha, Gomes Jr. & Fontoura, 2017
Batillipes roscoffensis Kristensen, 1978
Batillipes rotundiculus Rho, Min & Chang, 1999 in Rho *et al.* 1999
Batillipes similis Schulz, 1955
Batillipes solitarius Jørgensen, Boesgaard, Møbjerg & Kristensen, 2014
Batillipes spinicauda Gallo D'Addabbo, Sandulli & de Zio Grimaldi, 2005
Batillipes tridentatus Pollock, 1989
Batillipes tubernatis Pollock, 1971

Family: Coronarctidae Renaud-Mornant, 1974

Coronarctus Renaud-Mornant, 1974

Coronarctus disparilis Renaud-Mornant, 1987
Coronarctus fastigatus Renaud-Mornant, 1987
Coronarctus laubieri Renaud-Mornant, 1987
Coronarctus mexicus Romano III, Gallo, D'Addabbo, Accogli, Baguley & Montagna, 2011
Coronarctus stylisetus Renaud-Mornant, 1987
Coronarctus tenellus Renaud-Mornant, 1974
Coronarctus verrucatus Hansen, 2007

Trogloarctus Villora-Moreno, 1996

Trogloarctus trionyches Villora-Moreno, 1996

Family: Halechiniscidae Thulin, 1928
 <Amended by Fujimoto *et al.* 2016>

Subfamily: Dipodarctinae Pollock, 1995
 <Amended by Jørgensen *et al.* 2014>

Dipodarctus Pollock, 1995
<Amended by Jørgensen *et al.* 2014>

Dipodarctus anaholiensis Pollock, 1995

Dipodarctus australiensis Jørgensen, Boesgaard, Møbjerg & Kristensen, 2014

Dipodarctus borrori Pollock, 1995 [*Hemitanarctus chimaera* de Zio Grimaldi, D'Addabbo Gallo, Morone De Lucia & Troccoli, 1995/96 according to de Zio Grimaldi *et al.* 2003]

Dipodarctus subterraneus (Renaud-Debyser, 1959)

Dipodarctus susannae Jørgensen, Boesgaard, Møbjerg & Kristensen, 2014

Subfamily: Euclavarctinae Renaud-Mornant, 1983

Clavarctus Renaud-Mornant, 1983

Clavarctus falculus Renaud-Mornant, 1983

Euclavarctus Renaud-Mornant, 1975

<Amended by Renaud-Mornant 1983>

Euclavarctus convergens Renaud-Mornant, 1983

Euclavarctus thieli Renaud-Mornant, 1975

Exoclavarctus Renaud-Mornant, 1983

Exoclavarctus dineti Renaud-Mornant, 1983

Moebjergarctus Bussau, 1992

Moebjergarctus manganis Bussau, 1992

Parmursa Renaud-Mornant, 1984

Parmursa fimbriata Renaud-Mornant, 1984

Parmursa torquata Hansen, 2007

Proclavarctus Renaud-Mornant, 1983

Proclavarctus fragilis Renaud-Mornant, 1983

Subfamily: Florarctinae Renaud-Mornant, 1982
<Amended by Kristensen 1984>

Florarctus Delamare Deboutteville & Renaud-Mornant, 1965

Florarctus acer Renaud-Mornant, 1989

Florarctus antillensis Van der Land, 1968

Florarctus asper Renaud-Mornant, 1989

Florarctus cervinus Renaud-Mornant, 1987

Florarctus cinctus Renaud-Mornant, 1976

Florarctus glareolus Noda, 1987

Florarctus heimi Delamare Deboutteville & Renaud-Mornant, 1965

Florarctus hulingsi Renaud-Mornant, 1976

Florarctus kwoni Chang & Rho, 1997

Florarctus pulcher Grimaldi de Zio, Lamarca, D'addabbo Gallo & Pietanza, 1999

Florarctus salvati Delamare Deboutteville & Renaud-Mornant, 1965

Florarctus stellatus Renaud-Mornant, 1989
Florarctus vulcanius Renaud-Mornant, 1987
Florarctus wunai Fujimoto, 2015

Ligiarctus Renaud-Mornant, 1982

<Amended by Gomes-Júnior *et al.* 2017>

Ligiarctus alatus Gomes-Júnior, E. Santos, da Rocha, P.J.P. Santos & Fontoura, 2018
Ligiarctus eastwardi Renaud-Mornant, 1982

Wingstrandarctus Kristensen, 1984

Wingstrandarctus corallinus Kristensen, 1984
Wingstrandarctus crypticus Renaud-Mornant, 1989
Wingstrandarctus intermedius (Renaud-Mornant, 1967) <Amended by Renaud-Mornant 1989>
Wingstrandarctus stinae Jørgensen, Boesgaard, Møbjerg & Kristensen, 2014
Wingstrandarctus unsculptus Jørgensen, Boesgaard, Møbjerg & Kristensen, 2014

Subfamily: Halechiniscinae Thulin, 1928

<Amended by Grimaldi de Zio *et al.* 1990>

Chrysoarctus Renaud-Mornant, 1984

Chrysoarctus briandi Renaud-Mornant, 1984
Chrysoarctus flabellatus (Grimaldi de Zio, D'Addabbo Gallo, Morone De Lucia, Vaccarella & Grimaldi, 1982)

Halechiniscus Richters, 1908

Halechiniscus chafarinensis Grimaldi de Zio & Villora Moreno, 1995
Halechiniscus churakaagii Fujimoto, 2015
Halechiniscus greveni Renaud-Mornant & Deroux, 1976
Halechiniscus guteli Richters, 1908
Halechiniscus jejuensis Chang & Rho, 2002
Halechiniscus macrocephalus Grimaldi de Zio, D'Addabbo Gallo & Morone De Lucia, 1988
Halechiniscus paratuleari Grimaldi de Zio, D'Addabbo Gallo & Morone De Lucia, 1988
Halechiniscus perfectus Schulz, 1955
Halechiniscus remanei remanei Schulz, 1955
Halechiniscus remanei antillensis Renaud-Mornant, 1984
Halechiniscus tuleari Renaud-Mornant, 1979
Halechiniscus yanakaagii Fujimoto, 2015

Subfamily: Orzeliscinae Schulz, 1963

<Amended by Gross *et al.* 2014>

Mutaparadoxipus Gross, Miller & Hochberg, 2014

Mutaparadoxipus duodigifinis Gross, Miller & Hochberg, 2014

Opydorscus Renaud-Mornant, 1989

Opydorscus fonsecae Renaud-Mornant, 1989

Orzeliscus du Bois-Reymond Marcus, 1952

Orzeliscus asiaticus Lee, Rho & Chang, 2017

Orzeliscus belopus du Bois-Reymond Marcus, 1952 [*Orzeliscus septentrionalis* Schulz, 1953 according to Pollock 1982]

Paradoxipus Kristensen & Higgins, 1989

<Transferred from *Halechiniscinae* by Gross *et al.* 2014>

Paradoxipus orzeliscoides Kristensen & Higgins, 1989

Subfamily: Quisarctinae Fujimoto, 2015

Quisarctus Fujimoto, 2015

Quisarctus yasumurai Fujimoto, 2015

Family: Neoarctidae (de Zio Grimaldi, D'Addabbo Gallo & Morone De Lucia, 1992)

Neoarctus de Zio Grimaldi, D'Addabbo Gallo & Morone De Lucia, 1992

Neoarctus primigenius de Zio Grimaldi, D'Addabbo Gallo & Morone De Lucia, 1992

Family: Neostygarctidae de Zio Grimaldi, D'Addabbo Gallo & De Lucia Morone, 1987
{not more valid according to Hansen *et al.* 2012; considered still valid and amended by Fujimoto & Miyazaki 2013; amended by Kristensen *et al.* 2015}

Neostygarctus Grimaldi de Zio, D'Addabbo Gallo & Morone De Lucia, 1982

<Transferred from *Neostygarctidae* into *Stygarctidae* by Hansen *et al.* 2012; re-transferred by Kristensen *et al.* 2015>

Neostygarctus acanthophorus Grimaldi de Zio, D'Addabbo Gallo & Morone De Lucia, 1982

Neostygarctus grossmeteori Tchesunov, 2018

Neostygarctus lovedeluxe Fujimoto & Miyazaki, 2013 {species described in *Neostygarctidae* by Fujimoto & Miyazaki 2013}

Neostygarctus oceanopolis Kristensen, Sørensen, Hansen & Zeppilli, 2015

Family: Renaudarctidae Kristensen & Higgins, 1984

<Amended by Hansen *et al.* 2012> <Amended by Fujimoto & Yamasaki 2017>

Nodarctus Fujimoto & Yamasaki, 2017

Nodarctus hallucis Fujimoto & Yamasaki, 2017

Renaudarctus Kristensen & Higgins, 1984

<Amended by Hansen *et al.* 2012>

Renaudarctus fossorius Hansen, Kristensen & Jørgensen, 2012

Renaudarctus psammocryptus Kristensen & Higgins, 1984

Family: Stygarctidae Schulz, 1951

<Amended by Hansen *et al.* 2012>

Subfamily: Megastygarctidinae Bello & de Zio Grimaldi, 1998

<Amended by Hansen & Kristensen 2006>

Megastygartides McKirdy, Schmidt & McGinty-Bayly, 1976
Megastygartides christinae Hansen & Kristensen, 2006
Megastygartides gerdæ Hansen & Kristensen, 2006
Megastygartides isounguis Renaud-Mornant, 1981
Megastygartides orbiculatus McKirdy, Schmidt & McGinty-Bayly, 1976
Megastygartides setoloso Morgan & O'Reilly, 1989
Megastygartides sezginii Ürkmez, Ostrowska, Roszkowska, Gawlak, Zawierucha, Kristensen & Kaczmarek, 2017

Subfamily: Stygarctinae Schulz, 1951

Faroestygartus Hansen, Kristensen & Jørgensen, 2012
Faroestygartus dezioae Hansen, Kristensen & Jørgensen, 2012

Hansenarctus Fujimoto & Ohtsuka, 2019

Hansenarctus toyoshiomaruæ Fujimoto & Ohtsuka, 2019

Mesostygartus Renaud-Mornant, 1979

<Amended and reconsidered valid as genus by Hansen *et al.* 2012>

Mesostygartus intermedius Renaud-Mornant, 1979 <Transferred from *Pseudostygartus* by Hansen *et al.* 2012>
Mesostygartus spiralis Hansen, Kristensen & Jørgensen, 2012

Parastygartus Renaud-Debyser, 1965

<Amended by Hansen *et al.* 2012>

Parastygartus biungulatus Morone De Lucia, Grimaldi de Zio & D'Addabbo Gallo, 1984
Parastygartus higginsi Renaud-Debyser, 1965
Parastygartus mediterranicus Gallo D'Addabbo, Grimaldi de Zio & Sandulli, 2001
Parastygartus renaudæ Grimaldi de Zio, D'Addabbo Gallo, Morone De Lucia & Daddabbo, 1987
Parastygartus robustus Hansen, Kristensen & Jørgensen, 2012
Parastygartus sterreri Renaud-Mornant, 1970
Parastygartus svennevigi Hansen, Kristensen & Jørgensen, 2012

Prostygartus Rubal, Veiga, Fontoura & Sousa-Pinto, 2013

Prostygartus aculeatus Rubal, Veiga, Fontoura & Sousa-Pinto, 2013

Pseudostygartus McKirdy, Schmidt & McGinty-Bayly, 1976

<Amended by Hansen *et al.* 2012>

Pseudostygartus apuliae Gallo D'Addabbo, de Zio Grimaldi & D'Addabbo, 2000
Pseudostygartus galloæ Hansen, Kristensen & Jørgensen, 2012
Pseudostygartus mirabilis de Zio Grimaldi, D'Addabbo Gallo & Morone De Lucia, 1998
Pseudostygartus rugosus Gallo D'Addabbo, de Zio Grimaldi & Sandulli, 2001
Pseudostygartus triungulatus McKirdy, Schmidt & McGinty-Bayly, 1976 <Amended by Hansen *et al.* 2012>

Stygarctus Schulz, 1951
Stygarctus abornatus McKirdy, Schmidt & McGinty-Bayly, 1976
Stygarctus ayatori Fujimoto, 2014
Stygarctus bradypus Schulz, 1951
Stygarctus goubaultae Renaud-Mornant, 1981
Stygarctus granulatus Pollock, 1970
Stygarctus lambertii Grimaldi de Zio, D'Addabbo Gallo, Morone De Lucia & Daddabbo, 1987
Stygarctus spinifer Hiruta, 1985

Family: *Styraconyxidae* Kristensen & Renaud-Mornant, 1983
<Amended by Jørgensen *et al.* 2014> <Former subfamily of Halechiniscidae elevated to family level and amended by Fujimoto *et al.* 2016>

Angursa Pollock, 1979
<Amended by Fujimoto & Hansen 2019>
Angursa bicuspis abyssalis Renaud-Mornant, 1981 {for taxonomic status of the subspecies see Kaczmarek *et al.* 2015} <Amended by Fujimoto & Hansen 2019 who consider *Angursa bicuspis abyssalis* to be a valid species>
Angursa antarctica Villora-Moreno, 1998 <Amended by Fujimoto & Hansen 2019>
Angursa bicuspis bicuspis Pollock, 1979 <Amended by Fujimoto & Hansen 2019>
Angursa capsula Bussau, 1992
Angursa clavifera Noda, 1985 {Bussau (1992) elevated *A. bicuspis clavifera* to the species level}
Angursa lanceolata Renaud-Mornant, 1981 <Amended by Fujimoto & Hansen 2019>
Angursa lingua Bussau, 1992
Angursa seisuimaruae Fujimoto & Hansen, 2019

Bathyechiniscus Steiner, 1926
Bathyechiniscus tetronyx Steiner, 1926 <Amended by Pollock 1983>

Lepoarctus Kristensen & Renaud-Mornant, 1983
Lepoarctus coniferus (Renaud-Mornant, 1975)

Paratanarctus D'Addabbo Gallo, Grimaldi de Zio, Morone De Lucia & Troccoli, 1992
Paratanarctus kristenseni D'Addabbo Gallo, Grimaldi de Zio, Morone De Lucia & Troccoli, 1992

Pleocola Cantacuzène, 1951
Pleocola limnorae Cantacuzène, 1951

Raiarctus Renaud-Mornant, 1981
<Amended by Jørgensen *et al.* 2014>
Raiarctus aureolatus Renaud-Mornant, 1981
Raiarctus colurus Renaud-Mornant, 1981
Raiarctus jesperi Jørgensen, Boesgaard, Møbjerg & Kristensen, 2014
Raiarctus katrinae Jørgensen, Boesgaard, Møbjerg & Kristensen, 2014
Raiarctus variabilis D'Addabbo Gallo, Grimaldi de Zio & Morone De Lucia, 1986

Rhombearctus Renaud-Mornant, 1984
Rhombearctus aslaki Hansen, Gallo D'Addabbo & de Zio Grimaldi, 2003
Rhombearctus duplicicaudatus Hansen, Gallo D'Addabbo & de Zio Grimaldi, 2003
Rhombearctus thomassini Renaud-Mornant, 1984

Styraconyx Thulin, 1942
Styraconyx craticuliformis Chang & Rho, 1998
Styraconyx craticulus (Pollock, 1983)
Styraconyx hallasi Kristensen, 1977
Styraconyx haploceros Thulin, 1942
Styraconyx kristenseni kristenseni Renaud-Mornant, 1981
Styraconyx kristenseni neocaledonensis Renaud-Mornant, 1981
Styraconyx nanoqsunguak Kristensen & Higgins, 1984
Styraconyx paulae Robotti, 1971
Styraconyx qivitoq Kristensen & Higgins, 1984
Styraconyx sardiniae D'Addabbo Gallo, Morone De Lucia & Grimaldi de Zio, 1989
Styraconyx sargassi Thulin, 1942
Styraconyx testudo D'Addabbo Gallo, Grimaldi de Zio & Morone De Lucia, 1984
Styraconyx turbinarium Bartels, Fontoura & Nelson, 2015
Styraconyx tyrrhenus D'Addabbo Gallo, Morone De Lucia & Grimaldi de Zio, 1989

Tetrakentron Cuénot, 1892
Tetrakentron synaptae Cuénot, 1892

Tholoarctus Kristensen & Renaud-Mornant, 1983
<Amended by Jørgensen *et al.* 2014>
Tholoarctus natans natans Kristensen & Renaud-Mornant, 1983
Tholoarctus natans pedunculatus D'Addabbo Gallo, de Zio Grimaldi, Morone De Lucia & Troccoli, 1992
Tholoarctus oleseni Jørgensen, Boesgaard, Møbjerg & Kristensen, 2014

Family: Tanarctidae Renaud-Mornant, 1980
<Former subfamily of Halechiniscidae elevated to family level and amended by Fujimoto *et al.* 2016>

Actinarctus Schulz, 1935
Actinarctus doryphorus doryphorus Schulz, 1935
Actinarctus doryphorus ocellatus Renaud-Mornant, 1971
Actinarctus lyrophorus Renaud-Mornant, 1979
Actinarctus neretinus Grimaldi de Zio, D'Addabbo Gallo, Morone De Lucia, Vaccarella & Grimaldi, 1982
Actinarctus physophorus Grimaldi de Zio, D'Addabbo Gallo, Morone De Lucia, Vaccarella & Grimaldi, 1982

Tanarctus Renaud-Debyser, 1959
Tanarctus arbor-spinosus Lindgren, 1971

Tanarctus bubulubus Jørgensen & Kristensen, 2001
Tanarctus dendriticus Renaud-Mornant, 1980
Tanarctus diplocerus Fujimoto, Miyazaki & Suzuki, 2013
Tanarctus gracilis Renaud-Mornant, 1980
Tanarctus helleouetae Renaud-Mornant, 1984
Tanarctus heterodactylus Renaud-Mornant, 1980
Tanarctus hirsutospinosus Jørgensen, Boesgaard, Møbjerg & Kristensen, 2014
Tanarctus ittanmomen Fujimoto, 2018
Tanarctus longisetosus Grimaldi de Zio, D'Addabbo Gallo, Morone De Lucia, Vaccarella & Grimaldi, 1982
Tanarctus minotauricus Renaud-Mornant, 1984
Tanarctus ramazzottii Renaud-Mornant, 1975
Tanarctus tauricus Renaud-Debyser, 1959
Tanarctus velatus McKirdy, Schmidt & McGinty-Bayly, 1976

Zioella Renaud-Mornant, 1987
Zioella pavonina Renaud-Mornant, 1987

Order: ECHINISCOIDEA Richters, 1926

Family: Echiniscoididae Kristensen & Hallas, 1980

Subfamily: Echiniscoidinae Kristensen & Hallas, 1980
{not explicitly defined by Møbjerg *et al.* (2016) who erected the Isoechiniscoidinae within Echiniscoididae}

Anisonyches Pollock, 1975
<Amended by Bartels *et al.* 2018>

Anisonyches deliquus Chang & Rho, 1998
Anisonyches diakidius Pollock, 1975 <Amended by Bartels *et al.* 2018>
Anisonyches eleutherensis Bartels, Fontoura & Nelson, 2018
Anisonyches mauritanus Grimaldi de Zio, D'Addabbo Gallo, Morone De Lucia & Daddabbo, 1987

Echiniscoides Plate, 1888

Echiniscoides andamanensis Chang & Rho, 1998
Echiniscoides bruni D'Addabbo Gallo, Grimaldi de Zio, Morone De Lucia & Troccoli, 1992
Echiniscoides hoepneri Kristensen & Hallas, 1980
Echiniscoides horningi Miller & Kristensen, 1999
Echiniscoides pollocki Hallas & Kristensen, 1982
Echiniscoides rugostellatus Perry, Rawson, Ameral, Miller, J.D. Miller, 2018
Echiniscoides sigismundi sigismundi (M. Schultze, 1865)
Echiniscoides sigismundi galliensis Kristensen & Hallas, 1980
Echiniscoides sigismundi groenlandicus Kristensen & Hallas, 1980
Echiniscoides sigismundi hispaniensis Kristensen & Hallas, 1980
Echiniscoides sigismundi mediterranicus Kristensen & Hallas, 1980
Echiniscoides sigismundi polynesiensis Renaud-Mornant, 1976

Echiniscoides sigismundi porphyrae Grimaldi de Zio, Gallo D'Addabbo & Pietanza, 2000
Echiniscoides sigismundi verrucariae Grimaldi de Zio, Gallo D'Addabbo & Pietanza, 2000
Echiniscoides travei Bellido & Bertrand, 1981
Echiniscoides wyethi Perry & Miller, 2015

Subfamily: Isoechiniscoidinae Møbjerg, Kristensen & Jørgensen, 2016

Isoechiniscoides Møbjerg, Kristensen & Jørgensen, 2016
Isoechiniscoides higginsii (Hallas & Kristensen, 1982) <Transferred from *Echiniscoides* by Møbjerg *et al.* 2016>
Isoechiniscoides sifae Møbjerg, Kristensen & Jørgensen, 2016

Family: Carphaniidae Binda & Kristensen, 1986

Carphania Binda, 1978
Carphania fluviatilis Binda, 1978

Family: Oreellidae Ramazzotti, 1962 (*sensu* Puglia unpublished thesis 1959)

Oreella Murray, 1910
Oreella chugachii Calloway, Miller, Johansson & Whiting, 2011
Oreella mollis Murray, 1910 [*Oreella minor* Ramazzotti, 1964]
Oreella vilucensis Rahm, 1931 *species inquirenda* [*Oreella bonnensis* Rahm, 1932]

Family: Echiniscidae Thulin, 1928

Subfamily: Echiniscinae Thulin, 1928 in Guil *et al.* 2019

Tribe: Echiniscini Thulin, 1928 in Guil *et al.* 2019

Barbaria Michalczyk, Gąsiorek, Morek & Stec, 2019 in Gąsiorek *et al.* 2019b
Barbaria bigranulata (Richters, 1907) <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>
Barbaria danieli (Meyer, Tsaliki & Sorgee, 2017) <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>
Barbaria ganczareki (Michalczyk & Kaczmarek, 2007) <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>
Barbaria hanna (Roszkowska, Gawlak, Draga & Kaczmarek, 2019) <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>
Barbaria jenningsii (Dastyk, 1984) <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>
Barbaria madonnae (Michalczyk & Kaczmarek, 2006) <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>
Barbaria ollantaytamboensis (Nickel, Miller & Marley, 2001) <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>
Barbaria pseudowendtii (Dastyk, 1984) <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>
Barbaria ranzii (Ramazzotti, 1964) <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>

Claxtonia Gąsiorek & Michalczyk, 2019 in Gąsiorek *et al.* 2019b

Claxtonia barbarae (Kaczmarek & Michalczyk, 2002) <Transferred from *Echiniscus* by Gąsiorek et al. 2019b>
Claxtonia capillata (Ramazzotti, 1956) <Transferred from *Echiniscus* by Gąsiorek et al. 2019b>
Claxtonia corrugicaudata (McInnes, 2009) <Transferred from *Echiniscus* by Gąsiorek et al. 2019b>
Claxtonia crebraclava (Sun, X. Li & Feng, 2014) <Transferred from *Echiniscus* by Gąsiorek et al. 2019b>
Claxtonia malpighii (Biserov, 1994) <Transferred from *Echiniscus* by Gąsiorek et al. 2019b>
Claxtonia marginopora (Grigarick, Schuster & Nelson, 1983) <Transferred from *Echiniscus* by Gąsiorek et al. 2019b>
Claxtonia mauccii (Ramazzotti, 1956) <Transferred from *Echiniscus* by Gąsiorek et al. 2019b>
Claxtonia molluscorum (Fox & Garcia-Moll, 1962) <Transferred from *Echiniscus* by Gąsiorek et al. 2019b>
Claxtonia moniliata (Iharos, 1967) <Transferred from *Echiniscus* by Gąsiorek et al. 2019b>
Claxtonia pardalis (Degma & Schill, 2015) <nomen inquirendum according to Gąsiorek et al. 2019b> <Transferred from *Echiniscus* by Gąsiorek et al. 2019b>
Claxtonia vincula (Horning, Schuster & Grigarick, 1978) <Transferred from *Echiniscus* by Gąsiorek et al. 2019b>
Claxtonia wendti (Richters, 1903) [*Echiniscus dearmatus* Bartoš, 1935 according to Gąsiorek et al. 2019b, *Echiniscus szaboi* Iharos, 1973 as it was already synonymized with *E. dearmatus*] <*E. wendti* and *E. dearmatus* transferred from *Echiniscus* by Gąsiorek et al. 2019b>

Diploechiniscus Vicente, Fontoura, Cesari, Rebecchi, Guidetti, Serrano & Bertolani, 2013
Diploechiniscus horningi (Schuster & Grigarick, 1971) <Transferred from *Echiniscus* by Gąsiorek et al. 2019b>
Diploechiniscus oihonnae (Richters, 1903) [*Echiniscus multispinosus* da Cunha, 1944 according to Vicente et al. 2013]

Echiniscus C.A.S. Schultze, 1840
 <Amended by Gąsiorek et al. 2017b>

Echiniscus africanus Murray, 1907
Echiniscus aliquantillus Grigarick, Schuster & Nelson, 1983
Echiniscus angolensis da Cunha & do Nascimento Ribeiro, 1964
Echiniscus apuanus M. Bertolani, 1946
Echiniscus arcangelii Maucci, 1973-74
Echiniscus arctomys Ehrenberg, 1853 <nomen inquirendum according to Gąsiorek et al. 2019b>
Echiniscus arthuri Pilato, Binda & Lisi, 2005
Echiniscus azoricus Fontoura, Pilato & Lisi, 2008
Echiniscus baius Marcus, 1928
Echiniscus baloghi Iharos, 1973
~~*Echiniscus barbarae* Kaczmarek & Michalczyk, 2002 {see *Claxtonia*}~~
Echiniscus batramiae Iharos, 1936
Echiniscus becki Schuster & Grigarick, 1966
Echiniscus belloporus Gąsiorek & Kristensen, 2018
~~*Echiniscus bigranulatus* Richters, 1907 {see *Barbaria*}~~
Echiniscus bisculptus Maucci, 1983

Echiniscus blumi blumi Richters, 1903 [*Echiniscus ramazzottii* Binda & Pilato, 1969, *Echiniscus bisetosus* Heinis, 1908 according to Gašiorek *et al.* 2019b, *Echiniscus mediantus* Marcus, 1930 according to Gašiorek *et al.* 2019b]
Echiniscus blumi schizofilus Bartoš, 1941
Echiniscus calcaratus Richters, 1908
Echiniscus calvus Marcus, 1931
Echiniscus canadensis Murray, 1910 [*Echiniscus punctulatus* Mihelčič, 1955; *Echiniscus bellus* Mihelčič, 1967]
Echiniscus canedoi da Cunha & do Nascimento Ribeiro, 1962
~~*Echiniscus capillatus* Ramazzotti, 1956 {see *Claxtonia*}~~
~~*Echiniscus carsicus* Mihelčič, 1966 {see *Nebularmis*}~~
Echiniscus carusoi Pilato, 1972
Echiniscus cavagnaroi Schuster & Grigarick, 1966 <Amended by Meyer 2016>
Echiniscus cervicornis Murray, 1906
Echiniscus charrua Claps & Rossi, 1997
Echiniscus cheonyoungi Moon & Kim, 1994
~~*Echiniscus cirinoi* Binda & Pilato, 1993 {see *Nebularmis*}~~
~~*Echiniscus clavispinosus* Fontoura, Pilato & Lisi, 2011 {see *Viridiscus*}~~
Echiniscus clevelandi Beasley, 1999
Echiniscus columinis Murray, 1911
~~*Echiniscus corrugicaudatus* McInnes, 2009 {see *Claxtonia*}~~
Echiniscus crassispinosus crassispinosus Murray, 1907
Echiniscus crassispinosus fasciatus Marcus, 1928
~~*Echiniscus crebraclava* Sun, X. Li & Feng, 2014 {see *Claxtonia*}~~
Echiniscus curiosus Claxton, 1996
~~*Echiniscus danieli* Meyer, Tsaliki & Sogge, 2017 {see *Barbaria*}~~
Echiniscus dariae Kaczmarek & Michalczyk, 2010
Echiniscus darienae Miller, Horning & Dastyh, 1995
~~*Echiniscus dearmatus* Bartoš, 1935 [*Echiniscus szaboi* Iharos, 1973] {see *Claxtonia*}~~
Echiniscus dikenli Maucci, 1973
Echiniscus diploglyptus Durante Pasa & Maucci, 1975
Echiniscus divergens Marcus, 1936
Echiniscus dreyfusi de Barros, 1942
Echiniscus duboisi Richters, 1902
Echiniscus egnatae Durante Pasa & Maucci, 1979
Echiniscus ehrenbergi Dastyh & Kristensen, 1995
Echiniscus elaeinae Pilato, Binda & Lisi, 2005
~~*Echiniscus elegans* Richters, 1907 {see *Stellariscus*}~~
Echiniscus evelinae de Barros, 1942
~~*Echiniscus ganezareki* Michalczyk & Kaczmarek, 2007 {see *Barbaria*}~~
Echiniscus granulatus (Doyère, 1840) [*Echiniscus crassus* Richters, 1904; *Echiniscus fortis* Bartoš, 1935; *Echiniscus abanti* Maucci, 1973]
~~*Echiniscus hanna* Roszkowska, Gawlak, Draga & Kaczmarek, 2019 {see *Barbaria*}~~
Echiniscus heterospinosus Maucci, 1954
Echiniscus hexacanthus Maucci, 1973
Echiniscus hoonsooi Moon & Kim, 1990
~~*Echiniscus horningi* Schuster & Grigarick, 1971 {see *Diploechiniscus*}~~

Echiniscus inocelatus Mihelčič, 1938 [*Echiniscus inocellatus* Mihelčič, 1964]
Echiniscus insuetus Mihelčič, 1967 <species dubia according to Gašiorek et al. 2019b>
Echiniscus jagodici Mihelčič, 1951
Echiniscus jamesi Claxton, 1996
~~*Echiniscus japonicus* Morikawa, 1951 {see *Nebularmis*}~~
~~*Echiniscus jenningsi* Dastych, 1984 {see *Barbaria*}~~
Echiniscus kerguelensis Richters, 1907
Echiniscus knowltoni Schuster & Grigarick, 1971
~~*Echiniscus kofordi* Schuster & Grigarick, 1966 {see *Kristenseniscus*}~~
Echiniscus kosickii Kaczmarek & Michalczyk, 2010
Echiniscus lapponicus Thulin, 1911
Echiniscus laterosetosus Ito, 1993
Echiniscus laterospinosus Rudescu, 1964
~~*Echiniscus latifasciatus* Dudichev & Biserov, 2000 {see *Stellariscus*}~~
Echiniscus lentiferus Claxton & Dastych, 2017
Echiniscus lichenorum Maucci, 1983 <nomen inquirendum according to Gašiorek et al. 2019b>
~~*Echiniscus limai* da Cunha & do Nascimento Ribeiro, 1964 {see *Kristenseniscus*}~~
Echiniscus lineatus Pilato, Fontoura, Lisi & Beasley, 2008
Echiniscus longispinosus Murray, 1907
Echiniscus loxophthalmus Richters, 1911 <species dubia according to Gašiorek et al. 2019b>
~~*Echiniscus madonnae* Michalczyk & Kaczmarek, 2006 {see *Barbaria*}~~
~~*Echiniscus maesi* Séméria, 1985 {see *E. perarmatus*}~~
~~*Echiniscus malpighii* Biserov, 1994 {see *Claxtonia*}~~
Echiniscus manulae da Cunha & do Nascimento Ribeiro, 1962
Echiniscus marcusii Pilato, Claxton & Binda, 1989
Echiniscus marginatus Binda & Pilato, 1994
~~*Echiniscus marginoporus* Grigarick, Schuster & Nelson, 1983 {see *Claxtonia*}~~
~~*Echiniscus markezi* Mihelčič, 1971/72 {see *Nebularmis*}~~
Echiniscus marleyi X. Li, 2007
~~*Echiniscus mauceii* Ramazzotti, 1956 {see *Claxtonia*}~~
~~*Echiniscus mediantus* Marcus, 1930 {see *E. blumi*}~~
Echiniscus merokensis merokensis Richters, 1904 [*Echiniscus iharosi* Rudescu, 1964, *Echiniscus simba* Marcus, 1928 according to Gašiorek et al. 2019b]
Echiniscus merokensis suecicus Thulin, 1911
Echiniscus migiurtinus Franceschi, 1957
~~*Echiniscus miheleici* Iharos, 1973 {see *Nebularmis*}~~
Echiniscus militaris Murray, 1911
~~*Echiniscus molluscorum* Fox & Garcia Moll, 1962 {see *Claxtonia*}~~
Echiniscus mongoliensis Iharos, 1973 <Elevated to the species level by Gašiorek et al. 2017b>
~~*Echiniscus moniliatus* Iharos, 1967 {see *Claxtonia*}~~
Echiniscus montanus Iharos, 1982
Echiniscus mosaicus Grigarick, Schuster & Nelson, 1983
Echiniscus murrayi Iharos, 1969
Echiniscus nelsonae X. Li, L. Wang & Yu, 2007
Echiniscus nepalensis Dastych, 1975
Echiniscus nigripustulus Horning, Schuster & Grigarick, 1978
~~*Echiniscus nobilis* Mihelčič, 1967 {see *Nebularmis*}~~

~~*Echiniscus ollantaytamboensis* Nickel, Miller & Marley, 2001 {see *Barbaria*}~~
Echiniscus ornamentatus Gąsiorek & Kristensen, 2018
Echiniscus osellai Maucci, 1975
Echiniscus pajstunensis Bartoš, 1941
Echiniscus palmae Dastych, 1997
~~*Echiniscus pardalis* Degma & Schill, 2015 {see *Claxtonia*}~~
Echiniscus perarmatus Murray, 1907 [*Echiniscus maesi* Séméria, 1985 according to Gąsiorek *et al.* 2019b]
Echiniscus peruvianus Binda & Pilato, 1994
~~*Echiniscus perviridis* Ramazzotti, 1959 {see *Viridiscus*}~~
~~*Echiniscus phocae* du Bois-Reymond Marcus, 1944 {see *Nebularmis*}~~
Echiniscus polygonalis Ito, 1993
Echiniscus pooensis Rodriguez-Roda, 1948
Echiniscus porabrus Horning, Schuster & Grigarick, 1978
Echiniscus postojnensis Mihelčič, 1967 [*Echiniscus loxoptalmus* Mihelčič, 1939]
~~*Echiniscus pseudelegans* Séméria, 1994 {see *Stellariscus*}~~
~~*Echiniscus pseudowendti* Dastych, 1984 {see *Barbaria*}~~
Echiniscus punctus McInnes, 1995
Echiniscus pusae Marcus, 1928
Echiniscus quadrispinosus quadrispinosus Richters, 1902 [*Echiniscus scrofa* Richters, 1902]
Echiniscus quadrispinosus brachyspinosus Bartoš, 1934
Echiniscus quadrispinosus cribrosus Murray, 1907
Echiniscus quadrispinosus fissispinosus Murray, 1907
Echiniscus quitensis Pilato, 2007
Echiniscus rackae Dastych, 1986
~~*Echiniscus ranzii* Ramazzotti, 1964 {see *Barbaria*}~~
~~*Echiniscus reticulatus* Murray, 1905 {see *Nebularmis*}~~
Echiniscus reymondi Marcus, 1928
Echiniscus robertsi Schuster & Grigarick, 1965
Echiniscus rodnae Claxton, 1996
~~*Echiniscus rufoviridis* du Bois-Reymond Marcus, 1944 {see *Viridiscus*}~~
Echiniscus rugospinosus Marcus, 1928
Echiniscus scabrospinus Fontoura, 1982 <Amended by Pilato *et al.* 2008b>
Echiniscus semifoveolatus Ito, 1993
Echiniscus shaanxiensis X. Li, L. Wang & Yu, 2007
Echiniscus siegristi Heinis, 1911
~~*Echiniscus simba* Marcus, 1928 {see *E. merokensis*}~~
Echiniscus siticulosus Gąsiorek & Michalczyk, 2019
Echiniscus speciosus Mihelčič, 1967 [*Echiniscus roseus* Mihelčič, 1967] <species dubia according to Gąsiorek *et al.* 2019b>
Echiniscus spiculifer Schaudinn, 1901 <species dubia according to Gąsiorek *et al.* 2019b>
Echiniscus spiniger Richters, 1904
Echiniscus spinulosus (Doyère, 1840)
~~*Echiniscus storkani* Bartoš, 1940 {see *E. trisetosus*}~~
Echiniscus succineus Gąsiorek & Vončina, 2019
Echiniscus sylvanus Murray, 1910
Echiniscus taibaiensis L. Wang & X. Li, 2005

Echiniscus tamus Mehlen, 1969 <Amended by Miller & Mehlen 2007>
~~*Echiniscus tardus* Mihelčič, 1951 {see *Nebularmis*}~~
Echiniscus tenuis Marcus, 1928 <probably *Bryodelphax* according to Gąsiorek *et al.* 2019b>
~~*Echiniscus tessellatus* Murray, 1910 {see *Kristenseniscus*}~~
Echiniscus testudo (Doyère, 1840) <Amended by Gąsiorek *et al.* 2017b> [*Echiniscus bellermanni* C.A.S. Schultze, 1840; *Echiniscus inermis* Richters, 1902; *Echiniscus trifilis* Rahm, 1921; *Echiniscus testudo quadrifilis* by Gąsiorek *et al.* 2017b; *Echiniscus filamentosus* Plate, 1888 by Gąsiorek *et al.* 2017b; *Echiniscus glaber* Bartoš, 1937 by Gąsiorek *et al.* 2017b]
Echiniscus trisetosus Cuénot, 1932 [*Echiniscus storkani* Bartoš, 1940 according to Gąsiorek *et al.* 2019b]
Echiniscus tristis Gąsiorek & Kristensen, 2018
Echiniscus trojanus Maucci, 1973
Echiniscus tropicalis Binda & Pilato, 1995
Echiniscus tympanista Murray, 1911
Echiniscus velaminis Murray, 1910
~~*Echiniscus vinculus* Horning, Schuster & Grigarick, 1978 {see *Claxtonia*}~~
Echiniscus virginicus Riggan, 1962 <Amended by Christenberry & Mason 1979>
~~*Echiniscus viridianus* Pilato, Fontoura & Lisi, 2007 {see *Viridiscus*}~~
~~*Echiniscus viridis* Murray, 1910 <Amended by Pilato *et al.* 2008a> {see *Viridiscus*}~~
~~*Echiniscus viridissimus* Péterfi, 1956 {see *Viridiscus*}~~
~~*Echiniscus walteri* Pilato & Lisi, 2003 {see *Kristenseniscus*}~~
Echiniscus weisseri Maucci, 1978
~~*Echiniscus wendti* Richters, 1903 {see *Claxtonia*}~~
Echiniscus zetotrymus Horning, Schuster & Grigarick, 1978

Hypechiniscus Thulin, 1928

Hypechiniscus exarmatus (Murray, 1907) [*Oreella breviclava* Grigarick, Schuster & Nelson, 1983]
Hypechiniscus fengi Sun & X. Li, 2013
Hypechiniscus gladiator gladiator (Murray, 1905) [*Parechiniscus unispinosus* da Cunha, 1947]
Hypechiniscus gladiator bigladii (Iharos, 1973)
Hypechiniscus gladiator fissigladii (Iharos, 1973)
Hypechiniscus gladiator spinulosa (Iharos, 1973)
Hypechiniscus papillifer (Robotti, 1972)

Kristenseniscus Gąsiorek, Morek, Stec & Michalczyk, 2019

Kristenseniscus kofordi (Schuster & Grigarick, 1966) <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>
Kristenseniscus limai (da Cunha & do Nascimento Ribeiro, 1964) <nomen inquirendum according to Gąsiorek *et al.* 2019b> <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>
Kristenseniscus tessellatus (Murray, 1910) <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>
Kristenseniscus walteri (Pilato & Lisi, 2003) <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>

Nebularmis Gąsiorek & Michalczyk, 2019 in Gąsiorek *et al.* 2019b
Nebularmis carsicus (Mihelčič, 1966) <species dubia according to Gąsiorek *et al.* 2019b>
<Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>
Nebularmis cirinoi (Binda & Pilato, 1993) <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>
Nebularmis japonicus (Morikawa, 1951) <nomen inquirendum according to Gąsiorek *et al.* 2019b>
<Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>
Nebularmis markezi (Mihelčič, 1971/72) <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>
Nebularmis mihelcici (Iharos, 1973) <species dubia according to Gąsiorek *et al.* 2019b>
<Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>
Nebularmis nobilis (Mihelčič, 1967) <species dubia according to Gąsiorek *et al.* 2019b>
<Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>
Nebularmis phocae (du Bois-Reymond Marcus, 1944) <nomen inquirendum according to Gąsiorek *et al.* 2019b>
<Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>
Nebularmis reticulatus (Murray, 1905) <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>
Nebularmis tardus (Mihelčič, 1951) <species dubia according to Gąsiorek *et al.* 2019b>
<Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>

Stellariscus Gąsiorek, Suzuki, Kristensen & Michalczyk, 2018 in Gąsiorek *et al.* 2018c
Stellariscus elegans (Richters, 1907) <Transferred from *Echiniscus* by Gąsiorek *et al.* 2018c>
Stellariscus latifasciatus (Dudichev & Biserov, 2000) <Transferred from *Echiniscus* by Gąsiorek *et al.* 2018c>
Stellariscus pseudelegans (Séméria, 1994) <Transferred from *Echiniscus* by Gąsiorek *et al.* 2018c>

Testechiniscus Kristensen, 1987

<Amended by Gąsiorek *et al.* 2018b>

Testechiniscus laterculus (Schuster, Grigarick & Toftner, 1980) <Amended by Gąsiorek *et al.* 2018b>

Testechiniscus macronyx (Richters, 1907)

Testechiniscus meridionalis (Murray, 1906)

Testechiniscus spitsbergensis **spitsbergensis** (Scourfield, 1897) [*Echiniscus clavisetosus* Mihelčič, 1958; *Echiniscus marinellae* Bartoš, 1935; *Echiniscus melanophthalmus* Bartoš, 1936; *Echiniscus menzeli* Heinis, 1917; *Echiniscus rosaliae* Mihelčič, 1951; *Echiniscus spinuloides* Murray, 1907] <Amended by Gąsiorek *et al.* 2018b>

Testechiniscus spitsbergensis tropicalis Gąsiorek, Stec, Zawierucha, Kristensen & Michalczyk, 2018

Viridiscus Gąsiorek & Michalczyk, 2019 in Gąsiorek *et al.* 2019b

Viridiscus clavispinosus Fontoura, Pilato & Lisi, 2011 <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>

Viridiscus perviridis Ramazzotti, 1959 <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>

Viridiscus rufoviridis du Bois-Reymond Marcus, 1944 <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>

Viridiscus viridianus Pilato, Fontoura & Lisi, 2007 <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>

Viridiscus viridis Murray, 1910 <Amended by Pilato *et al.* 2008a> <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>

Viridiscus viridissimus Péterfi, 1956 <Transferred from *Echiniscus* by Gąsiorek *et al.* 2019b>

Tribe: Bryodelphaxini Guil, Jørgensen & Kristensen, 2019

Bryochoerus Marcus, 1936

Bryochoerus intermedius intermedius (Murray, 1910)

Bryochoerus intermedius hawaiiicus (Thulin, 1928)

Bryochoerus intermedius laevis (Marcus, 1936)

Bryochoerus liupanensis Xue, X. Li, L. Wang, Xian, Chen, 2017

Bryodelphax Thulin, 1928

Bryodelphax aaseae Kristensen, Michalczyk & Kaczmarek, 2010

Bryodelphax alzirae (du Bois-Reymond Marcus, 1944)

Bryodelphax amphoterus (Durante Pasa & Maucci, 1975)

Bryodelphax arenosus Gąsiorek, 2018

Bryodelphax asiaticus Kaczmarek & Michalczyk, 2004

Bryodelphax atlantis Fontoura, Pilato & Lisi, 2008

Bryodelphax brevidentatus Kaczmarek, Michalczyk & Degma, 2005

Bryodelphax crossotus Grigarick, Schuster & Nelson, 1983

Bryodelphax dominicanus (Schuster & Toftner, 1982)

Bryodelphax instabilis Gąsiorek & Degma, 2018

Bryodelphax iohannis Bertolani, Guidi & Rebecchi, 1996

Bryodelphax kristenseni Lisi, Daza, Londoño & Quiroga, 2017

Bryodelphax lijiangensis Yang, 2002

Bryodelphax maculatus Gąsiorek, Stec, Morek, Marnissi & Michalczyk, 2017

Bryodelphax mateusi (Fontoura, 1982)

Bryodelphax meronensis Pilato, Lisi & Binda, 2010

Bryodelphax olszanowskii Kaczmarek, Parnikoza, Gawlak, Esefeld, Peter, Kozeretska & Roszkowska, 2017

Bryodelphax ortholineatus (Bartoš, 1963)

Bryodelphax parvulus Thulin, 1928

Bryodelphax parvuspolaris Kaczmarek, Zawierucha, Smykla & Michalczyk, 2012

Bryodelphax sinensis (Pilato, 1974)

Bryodelphax tatrensis (Węglarska, 1959)

Bryodelphax weglarskae (Pilato, 1972)

Subfamily: Pseudechiniscinae Guil, Jørgensen & Kristensen, 2019

Tribe: Cornechiniscini Guil, Jørgensen & Kristensen, 2019

Acanthechiniscus Vecchi, Cesari, Bertolani, Jönsson, Rebecchi & Guidetti, 2016a

Acanthechiniscus distinctus (Mihelčič, 1951) <Transferred from *Pseudechiniscus* by Vecchi *et al.* 2016a>

Acanthechiniscus goedeni (Grigarick, Mihelčič & Schuster, 1964) <Transferred from *Pseudechiniscus* by Vecchi *et al.* 2016a>

Acanthechiniscus islandicus (Richters, 1904) <Transferred from *Pseudechiniscus* by Vecchi *et al.* 2016a>

Acanthechiniscus sinensis (Rahm, 1937) <Transferred from *Pseudechiniscus* by Vecchi *et al.* 2016a>

Acanthechiniscus victor (Ehrenberg, 1853) [*Pseudechiniscus tridentifer* Bartoš, 1935] <Transferred from *Pseudechiniscus* by Vecchi *et al.* 2016a>

Cornechiniscus Maucci & Ramazzotti, 1981

Cornechiniscus brachycornutus Maucci, 1987

Cornechiniscus ceratophorus (Maucci, 1973)

Cornechiniscus cornutus (Richters, 1907) [*Pseudechiniscus intermedius* Mihelčič, 1970]

Cornechiniscus holmeni (Petersen, 1951)

Cornechiniscus lobatus (Ramazzotti, 1943) [*Pseudechiniscus cornutus* Mihelčič, 1966]

Cornechiniscus madagascariensis Maucci, 1993

Cornechiniscus schrammi (Dastych, 1979)

Cornechiniscus subcornutus Maucci & Ramazzotti, 1981

Cornechiniscus tibetanus (Maucci, 1979)

Proechiniscus Kristensen, 1987

Proechiniscus hanneae (Petersen, 1951)

Tribe: Pseudechiniscini Guil, Jørgensen & Kristensen, 2019

Mopsechiniscus du Bois-Reymond Marcus, 1944

Mopsechiniscus franciscae Guidetti, Rebecchi, Cesari & McInnes, 2014

Mopsechiniscus frenoti Dastych, 1999

Mopsechiniscus granulatus Mihelčič, 1967

Mopsechiniscus imberbis (Richters, 1907)

Mopsechiniscus schusteri Dastych, 1999

Mopsechiniscus tasmanicus Dastych & Moscal, 1992

Pseudechiniscus Thulin, 1911

<Amended by Vecchi *et al.* 2016a>

Pseudechiniscus alberti Dastych, 1987

Pseudechiniscus asper Abe, Utsugi & Takeda, 1998

Pseudechiniscus bartkei Węglarska, 1962

Pseudechiniscus beasleyi X. Li, L. Wang & Yu, 2007

Pseudechiniscus bidenticulatus Bartoš, 1963

Pseudechiniscus bispinosus (Murray, 1907)

Pseudechiniscus brevimontanus Kendall-Fite & Nelson, 1996

Pseudechiniscus chengi Xue, X. Li, L. Wang, Xian, Chen, 2017

Pseudechiniscus clavatus Mihelčič, 1955

Pseudechiniscus conifer (Richters, 1904)

Pseudechiniscus dicrani Mihelčič, 1938

Pseudechiniscus facettalis Petersen, 1951 [*Pseudechiniscus pseudoconifer facettalis* Maucci, 1954]

Pseudechiniscus gullii Pilato & Lisi, 2006

Pseudechiniscus insolitus Maucci, 1991
Pseudechiniscus jiroveci Bartoš, 1963
Pseudechiniscus juanita de Barros, 1939 [*Pseudechiniscus suillus franciscae* de Barros, 1942]
Pseudechiniscus jubatus Biserov, 1990
Pseudechiniscus megacephalus Mihelčič, 1951
Pseudechiniscus nataliae Biserov & Maucci, 1986
Pseudechiniscus novaezeelandiae novaezeelandiae (Richters, 1908)
Pseudechiniscus novaezeelandiae aspinosa Iharos, 1963
Pseudechiniscus novaezeelandiae laterospinosa Iharos, 1963
Pseudechiniscus novaezeelandiae marinae Bartoš, 1934
Pseudechiniscus occultus Dastyh, 1980
Pseudechiniscus papillosum X. Li, L. Wang, Liu & Su, 2005
Pseudechiniscus pilatoi X. Li, 2007
Pseudechiniscus pseudoconifer Ramazzotti, 1943
Pseudechiniscus pulcher (Murray, 1910)
Pseudechiniscus quadrilobatus Iharos, 1969
Pseudechiniscus ramazzottii ramazzottii Maucci, 1952
Pseudechiniscus ramazzottii facettalis Iharos, 1964 [*Pseudechiniscus ramazzottii lineatus* Maucci, 1973-74]
Pseudechiniscus santomensis Fontoura, Pilato & Lisi, 2010
Pseudechiniscus scorteccii Franceschi, 1952
Pseudechiniscus shilinensis Yang, 2002
Pseudechiniscus spinerectus Pilato, Binda, Napolitano & Moncada, 2001
Pseudechiniscus suillus (Ehrenberg, 1853) [*Echiniscus mutabilis* Murray, 1905]
Pseudechiniscus titianae Vecchi, Cesari, Bertolani, Jönsson, Rebecchi & Guidetti, 2016a
Pseudechiniscus transsylvanicus Iharos, 1936
Pseudechiniscus yunnanensis L. Wang, 2009

Tribe: Antechiniscini Guil, Jørgensen & Kristensen, 2019

Antechiniscus Kristensen, 1987
Antechiniscus conversus (Horning & Schuster, 1983)
Antechiniscus jermani Rossi & Claps, 1989
Antechiniscus lateromamillatus (Ramazzotti, 1964)
Antechiniscus moscali Claxton, 2001
Antechiniscus parvisentus (Horning & Schuster, 1983)
Antechiniscus perplexus (Horning & Schuster, 1983)

Multipseudechiniscus Schulte & Miller, 2011
 <Amended by Miller *et al.* 2012>

Multipseudechiniscus raneyi (Grigarick, Mihelčič & Schuster, 1964) <Transferred from *Pseudechiniscus* by Schulte & Miller, 2011>

Subfamily: Parechiniscinae Guil, Jørgensen & Kristensen, 2019

Tribe: Novechiniscini Guil, Jørgensen & Kristensen, 2019

Novechiniscus Kristensen, 1987
Novechiniscus armadilloides (R.O. Schuster, 1975)

Tribe: Parechiniscini Guil, Jørgensen & Kristensen, 2019

Parechiniscus Cuénot, 1926
Parechiniscus chitonides Cuénot, 1926
Parechiniscus unispinosus da Cunha, 1947

Class: MESOTARDIGRADA Rahm, 1937 {*nomen dubium* according to Grothman *et al.* 2017}

Order: THERMOZODIA Ramazzotti & Maucci, 1983

Family: Thermozodiidae Rahm, 1937

Thermozodium Rahm, 1937
Thermozodium esakii Rahm, 1937

~~EUTARDIGRADA Richters, 1926~~

Class: APOTARDIGRADA Guil, Jørgensen & Kristensen, 2019

Order: APOCHELA Schuster, Nelson, Grigarick & Christenberry, 1980

Family: Milnesiidae Ramazzotti, 1962

Bergtrollus Dastych, 2011
Bergtrollus dzimbowski Dastych, 2011

Limmenius Horning, Schuster & Grigarick, 1978
Limmenius porcellus Horning, Schuster & Grigarick, 1978

Milnesioides Claxton, 1999
Milnesioides exsertum Claxton, 1999

Milnesium Doyère, 1840
Milnesium alabamiae Wallendorf & Miller, 2009
Milnesium almatyense Tumanov, 2006
Milnesium alpigenum Ehrenberg, 1853 {valid according to Morek *et al.* 2016} <Redescribed by Morek *et al.* 2019>
Milnesium antarcticum Tumanov, 2006
Milnesium argentinum Roszkowska, Ostrowska & Kaczmarek, 2015
Milnesium asiaticum Tumanov, 2006
Milnesium barbadosense Meyer & Hinton, 2012
Milnesium beasleyi Kaczmarek, Jakubowska & Michalczyk, 2012
Milnesium beatae Roszkowska, Ostrowska & Kaczmarek, 2015
Milnesium berladnicorum Ciobanu, Zawierucha, Moglan & Kaczmarek, 2014
Milnesium bohleberi Bartels, Nelson, Kaczmarek & Michalczyk, 2014

Milnesium brachyungue Binda & Pilato, 1990
Milnesium burgessi Schlabach, Donaldson, Hobelman, Miller & Lowman, 2018
Milnesium dornensis Ciobanu, Roszkowska & Kaczmarek, 2015
Milnesium dujiangensis Yang, 2003 {*nomen dubium* according to Morek *et al.* 2016}
Milnesium eurystomum Maucci, 1991 <Amended by Michalczyk *et al.* 2012>
Milnesium granulatum Ramazzotti, 1962 <Amended and elevated to the species level by Michalczyk *et al.* 2012>
Milnesium inceptum Morek, Suzuki, Schill, Georgiev, Yankova, Marley & Michalczyk, 2019
Milnesium jacobii Meyer & Hinton, 2010
Milnesium katarzynae Kaczmarek, Michalczyk & Beasley, 2004
Milnesium kogui Londoño, Daza, Caicedo, Quiroga & Kaczmarek, 2015
Milnesium krzysztofi Kaczmarek & Michalczyk, 2007
Milnesium lagniappe Meyer, Hinton & Dupré, 2013
Milnesium longiungue Tumanov, 2006
Milnesium minutum Pilato & Lisi, 2016
Milnesium quadrifidum Nederström, 1919 {valid according to Morek *et al.* 2016}
Milnesium reductum Tumanov, 2006
Milnesium reticulatum Pilato, Binda & Lisi, 2002
Milnesium sandrae Pilato & Lisi, 2016
Milnesium shilohae Meyer, 2015
Milnesium swansoni Young, Chappell, Miller & Lowman, 2016
Milnesium swolenskyi Bertolani & Grimaldi, 2000 {fossil species}
Milnesium tardigradum tardigradum Doyère, 1840 <Amended by Michalczyk *et al.* 2012; Amended by Morek *et al.* 2018>
Milnesium tardigradum trispinosa Rahm, 1931 {*nomen dubium* according to Morek *et al.* 2016} {not valid according to Suzuki 2016}
Milnesium tetralamellatum Pilato & Binda, 1991
Milnesium tumanovi Pilato, Sabella & Lisi, 2016
Milnesium validum Pilato, Sabella, D'Urso & Lisi, 2017
Milnesium variefidum Morek, Gąsiorek, Stec, Blagden & Michalczyk, 2016
Milnesium vorax Pilato, Sabella & Lisi, 2016
Milnesium zsalakoe Meyer & Hinton, 2010

Class: EUTARDIGRADA Richters, 1926

<Amended by Guil *et al.* 2019 and corresponding to the former order PARACHELA Schuster *et al.*, 1980; The previous class EUTARDIGRADA Richters, 1926 was formerly consisted of two orders: order APOCHELA – now raised to the new class APOTARDIGRADA by Guil *et al.* 2019 and order PARACHELA Schuster, Nelson, Grigarick & Christenberry, 1980 – suppressed by Guil *et al.* 2019>

~~PARACHELA Schuster, Nelson, Grigarick & Christenberry, 1980~~ {suppressed by Guil *et al.* 2019}

Order: EOHYPSIBIOIDEA Guil, Jørgensen & Kristensen, 2019

<Corresponding to the superfamily Eohypsibioidea Bertolani & Kristensen, 1987 in Marley *et al.* 2011 elevated to higher level by Guil *et al.* 2019>

Family: Eohypsibiidae Bertolani & Kristensen, 1987
<Amended by Trygvadóttir & Kristensen 2011>
[Amphibolidae Bertolani, 1981]

Austeruseus Trygvadóttir & Kristensen, 2011
Austeruseus balduri Trygvadóttir & Kristensen 2011
Austeruseus faeroensis Trygvadóttir & Kristensen 2011
Austeruseus rokuri Trygvadóttir & Kristensen 2011

Bertolanus Özdikmen, 2008
<Amended by Trygvadóttir & Kristensen 2011>
[*Amphibolus* Bertolani, 1981 in Özdikmen 2008]
Bertolanus birnae Hansen, Kristensen, Bertolani & Guidetti, 2016
Bertolanus mahunkai (Iharos, 1971)
Bertolanus markevichi (Biserov, 1992)
Bertolanus nebulosus (Dastych, 1983)
Bertolanus portucalensis Fontoura, Pilato, Lisi & Morais, 2009
Bertolanus smreczynskii (Węglarska, 1970)
Bertolanus volubilis (Durante Pasa & Maucci, 1975)
Bertolanus weglarskae (Dastych, 1972)

Eohypsibius Kristensen, 1982
<Amended by Trygvadóttir & Kristensen 2011>
Eohypsibius najdae Kristensen, 1982
Eohypsibius terrestris Ito, 1988

Order: HYPYSIBIOIDEA Guil, Jørgensen & Kristensen, 2019
<Corresponding to the superfamily Hypsibioidea Pilato, 1969 in Marley *et al.* 2011 amended by Bertolani *et al.* 2014 and Gąsiorek *et al.* 2018a and subsequently elevated to higher level by Guil *et al.* 2019>

Family: Calohypsibiidae Pilato, 1969
<Amended by Bertolani *et al.* 2014>
<Amended by Gąsiorek *et al.* 2019a>

Calohypsibius Thulin, 1928
Calohypsibius ornatus (Richters, 1900) [*Hypsibius* (*Calohypsibius*) *armatus* Bartoš, 1938;
Hypsibius (*Calohypsibius*) *intermedius* Mihelčič, 1939]
Calohypsibius maliki Michalczyk & Kaczmarek, 2005
Calohypsibius placophorus (da Cunha, 1943) {see *Fractonotus verrucosus*}
Calohypsibius schusteri Nelson & McGlothlin, 1996
Calohypsibius verrucosus (Richters, 1900) [*Macrobiotus scabrosus* Murray, 1911 according to Mareus 1928] {see *Fractonotus*}

Family: Hypsibiidae Pilato, 1969
<Amended by Bertolani *et al.* 2014>
<Amended by Gąsiorek *et al.* 2018a>

Subfamily: Diphasconinae Dastych, 1992

<Amended by Bertolani *et al.* 2014>

Diphascon Plate, 1888

<Amended by Bertolani *et al.* 2014>

Diphascon alpinum Murray, 1906

Diphascon australianum Pilato & Binda, 1998

Diphascon bicorne (Mihelčič, 1971)

Diphascon bidropion Ito, 1995

Diphascon birklehofti Rolf Schuster, 1999

Diphascon chilense Plate, 1888

Diphascon claxtonae Pilato & Binda, 1998

Diphascon coniferens (Bartoš, 1960)

Diphascon dastychi Pilato & Binda, 1999

Diphascon dolomiticum Pilato & Bertolani, 2005

Diphascon faialense Fontoura & Pilato, 2007

Diphascon halapiense (Iharos, 1964) <Transferred to *Pilatobius* by Bertolani *et al.* 2014. Re-transferred to *Diphascon* by Tumanov 2018>

Diphascon higginsii Binda, 1971

Diphascon humicus Bertolani, Guidetti & Rebecchi, 1994

Diphascon hydrophilum Pilato, Binda, Bertolani & Lisi, 2005

Diphascon iharosi Vargha, 1995

Diphascon langhovdense (Sudzuki, 1964)

Diphascon marcuzzii (Mihelčič, 1971)

Diphascon mariae (Mihelčič, 1951)

Diphascon mirabilis Dastych, 1984

Diphascon mitrense Pilato, Binda & Qualtieri, 1999

Diphascon nelsonae Pilato, Binda, Bertolani & Lisi, 2005

Diphascon nobilei (Binda, 1969)

Diphascon ongulense (Morikawa, 1962)

Diphascon pingue pingue (Marcus, 1936)

Diphascon pingue brunsvicense Argue, 1972

Diphascon pinguiforme Pilato & Binda, 1997/98

Diphascon platyungue Pilato, Binda, Bertolani & Lisi, 2005

Diphascon polare Pilato & Binda, 1999

Diphascon puchalskii Kaczmarek, Parnikoza, Gawlak, Esefeld, Peter, Kozeretska & Roszkowska, 2017

Diphascon punctatum (Iharos, 1962)

Diphascon puniceum (Jennings, 1976)

Diphascon rivulare (Mihelčič, 1967)

Diphascon rudnickii Kaczmarek, Parnikoza, Gawlak, Esefeld, Peter, Kozeretska & Roszkowska, 2017

Diphascon sanae Dastych, Ryan & Watkins, 1990

Diphascon serratum Pilato, Binda, Bertolani & Lisi, 2005

Diphascon speciosum (Mihelčič, 1971)

Diphascon stappersi Richters, 1911

Diphascon tenue Thulin, 1928
Diphascon victoriae Pilato & Binda, 1999
Diphascon zaniewi Kaczmarek & Michalczyk, 2004

Subfamily: Hypsibiinae Pilato, 1969
<Amended by Bertolani *et al.* 2014>

Borealibius Pilato, Guidetti, Rebecchi, Lisi, Hansen & Bertolani, 2006
Borealibius zetlandicus (Murray, 1907)

Hypsibius Ehrenberg, 1848
<Amended by Gąsiorek *et al.* 2018a>

Hypsibius allisoni Horning, Schuster & Grigarick, 1978
Hypsibius antonovae (Biserov, 1990)
Hypsibius biscuitiformis Bartoš, 1960
Hypsibius calcaratus Bartoš, 1935
Hypsibius camelopardalis Ramazzotti & Maucci, 1983
Hypsibius choucoutiensis Rahm, 1937
Hypsibius convergens (Urbanowicz, 1925)
Hypsibius conwentzii Kaczmarek, Parnikoza, Gawlak, Esefeld, Peter, Kozeretska & Roszkowska, 2017

Hypsibius dujardini (Doyère, 1840) [*Macrobiotus palustris* Dujardin, 1851; *Macrobiotus lacustris* Dujardin, 1851; *Macrobiotus tetradactylus* Lance, 1896; *Macrobiotus murrayi* Richters, 1907 {see *Hypsibius murrayi*}; *Macrobiotus samoanus* Richters, 1908; *Macrobiotus breckneri* Richters, 1910; *Macrobiotus ursellus* Della Valle, 1915; *Hypsibius murrayi* Marcus, 1929] <Amended by Gąsiorek *et al.* 2018a>

Hypsibius exemplaris Gąsiorek, Stec, Morek & Michalczyk, 2018
Hypsibius fuhrmanni (Heinis, 1914) {subjectively invalid according to Gąsiorek *et al.* 2018a}
Hypsibius giusepperamazzotti Sudzuki, 1975

~~*Hypsibius heardensis* Miller, McInnes & Bergstrom, 2005 {see *Hypsibius murrayi*}~~

Hypsibius hypostomus Bartoš, 1935
Hypsibius iskandarovi Tumanov, 1997
Hypsibius janetscheki Ramazzotti, 1968
Hypsibius klebelsbergi Mihelčič, 1959
Hypsibius kunmingensis Yang, 2002
Hypsibius macrocalcaratus Beasley, 1988
Hypsibius maculatus Iharos, 1969
Hypsibius marcelli Pilato, 1990
Hypsibius microps Thulin, 1928 <Amended by Kaczmarek & Michalczyk 2009>

Hypsibius montanus Iharos, 1940 [*Hypsibius iharosi* Bartoš, 1941]

Hypsibius morikawai Ito, 1995

Hypsibius multituberculatus Pilato, Binda & Lisi, 2003

~~*Hypsibius murrayi* (Richters, 1907) <Redescribed by Dastych 2018> [*Hypsibius heardensis* Miller, McInnes & Bergstrom, 2005 according to Dastych 2018]~~

Hypsibius novaezeelandiae Pilato & Binda, 1997

Hypsibius pachyunguis Maucci, 1996

Hypsibius pallidus Thulin, 1911 <Amended by Kaczmarek & Michalczyk 2009>

Hypsibius pallidoides Pilato, Kiosya, Lisi, Inshina & Biserov, 2011
Hypsibius pedrottii Bertolani, Manicardi & Gibertoni, 1987
Hypsibius pradellii Bertolani & Rebecchi, 1996
Hypsibius ragonesei Binda & Pilato, 1985
Hypsibius roanensis Nelson & McGlothlin, 1993
Hypsibius runae Bartoš, 1941
Hypsibius scaber Maucci, 1987
Hypsibius scabropygus Cuénot, 1929
Hypsibius septulatus Pilato, Binda, Napolitano & Moncada, 2004
Hypsibius seychellensis Pilato, Binda & Lisi, 2006
Hypsibius shaanxiensis H. Li & X. Li, 2008
Hypsibius stiliferus Abe, 2004
Hypsibius thaleri Dastych, 2004
Hypsibius valentinae Pilato, Kiosya, Lisi & Sabella, 2012
Hypsibius vaskelae Tumanov, 2018

Subfamily: Itaquasconinae Bartoš in Rudescu, 1964
<Amended by Bertolani *et al.* 2014>

Adropion Pilato, 1987

<Subgenus *Adropion* of the genus *Diphascon* raised to genus level and transferred from
Diphasconinae by Bertolani *et al.* 2014>

Adropion afroglacialis Zawierucha, Gąsiorek & Buda, 2018 in Zawierucha *et al.* 2018a

Adropion arduifrons (Thulin, 1928)

Adropion behanae (Dastych, 1987)

Adropion belgicae (Richters, 1911) [*Fujiscon diphasconiellum* Ito, 1991] <Amended by Bernard
1977>

Adropion carolae (Binda & Pilato, 1969)

Adropion clavatum (Bartoš, 1935)

Adropion gani (Sun, X. Li & Feng, 2014)

Adropion gordonense (Pilato, Claxton & Horning, 1991)

Adropion greveni (Dastych, 1984)

Adropion linzhiensis (X. Li, 2007)

Adropion marcusii (Rudescu, 1964) *species dubia* <Transferred from *Mesocrista* by Gąsiorek *et al.* 2016> {for taxonomic status of the species see Gąsiorek *et al.* 2016}

Adropion mauccii (Dastych & McInnes, 1996)

Adropion modestum (Binda, Pilato & Dastych, 1984)

Adropion montigenum (Pilato & Dastych, 1974)

Adropion onorei (Pilato, Binda, Napolitano & Moncada, 2002)

Adropion prorsirostre (Thulin, 1928)

Adropion scoticum scoticum (Murray, 1905) [*Diphascon crozetense* Richters, 1907]

Adropion scoticum ommatophorum (Thulin, 1911)

Adropion scoticum qinlingensis (X. Li & Liu, 2005)

Adropion tricuspdatum (Binda & Pilato, 2000)

Adropion triodon (Maucci, 1996)

Adropion vexatum Pilato, Sabella, D'Urso & Lisi, 2017

Astatumen Pilato, 1997

Astatumen bartosi (Węglarska, 1959)

Astatumen tamaensis (Sudzuki, 1975)

Astatumen tamurai (Ito, 1990)

Astatumen trinacriae (Arcidiacono, 1962) [*Itaquascon ramazzottii* Iharos, 1966]

Bindius Pilato, 2009

<Transferred from *Diphasconinae* by Bertolani *et al.* 2014>

Bindius triquetrus Pilato, 2009

Itaquascon de Barros, 1939

Itaquascon biserovi Pilato, Binda & Moncada, 1999

Itaquascon cambewarrensense Pilato, Binda & Claxton, 2002

Itaquascon enckelli (Mihelčič, 1971/72)

Itaquascon globuliferum Abe & Ito, 1994

Itaquascon mongolicus Kaczmarek, Michalczyk & Węglarska, 2002

Itaquascon pawlowskii Węglarska, 1973

Itaquascon pilatoi Lisi, Londoño & Quiroga, 2014

Itaquascon pisoniae Pilato & Lisi, 2009

Itaquascon placophorum Maucci, 1973

Itaquascon simplex (Mihelčič, 1971)

Itaquascon umbellinae de Barros, 1939

Itaquascon unguiculum Pilato, Binda & Claxton, 2002

Meplitumen Lisi, Daza, Londoño, Quiroga & Pilato, 2019

Meplitumen aluna Lisi, Daza, Londoño, Quiroga & Pilato, 2019

Mesocrista Pilato, 1987

Mesocrista revelata Gąsiorek, Stec, Morek, Zawierucha, Kaczmarek, Lachowska-Cierlik & Michalczyk, 2016

Mesocrista spitzbergensis (Richters, 1903) <Amended by Gąsiorek *et al.* 2016>

Parascon Pilato & Binda, 1987

Parascon nichollsae Pilato & Lisi, 2004

Parascon schusteri Pilato & Binda, 1987

Platicrista Pilato, 1987

Platicrista affine (Mihelčič, 1951)

Platicrista angustata (Murray, 1905)

Platicrista cheleusis Kathman, 1990 [*Diphascon craigi* Beasley, 1990]

Platicrista horribilis Kaczmarek & Michalczyk, 2003

Platicrista itaquasconoide (Durante Pasa & Maucci, 1975)

Platicrista ramsayi Marley, 2006

Sarascon Guil, Rodrigo & Machordom, 2014

Sarascon hortensiae Guil, Rodrigo & Machordom, 2014

Subfamily: Pilatobiinae Bertolani, Guidetti, Marchioro, Altiero, Rebecchi & Cesari, 2014

Pilatobius Bertolani, Guidetti, Marchioro, Altiero, Rebecchi & Cesari, 2014

- Pilatobius aculeatus* (Maucci, 1951-1952) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius bisbullatus (Iharos, 1964) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius borealis (Biserov, 1996) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius brevipes (Marcus, 1936) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius bullatus (Murray, 1905) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius burti (Nelson, 1991) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius elongatus (Mihelčič, 1959) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius gerdæ (Mihelčič, 1951) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius granifer (Greven, 1972) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius iltisi (Schuster & Grigarick, 1965) <Transferred from *Diphascon* by Bertolani *et al.* 2014>

***Pilatobius islandicus* Buda & Zawierucha in Buda *et al.* 2018**

- Pilatobius latipes* (Mihelčič, 1955) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius nodulosus (Ramazzotti, 1957) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius nonbullatus (Mihelčič, 1951) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius oculatus oculatus (Murray, 1906) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius oculatus alpinus (Mihelčič, 1964) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius oculatus canadensis (Murray, 1910) [*Hypsibius vancouverensis* Thulin, 1911] <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius opisthoglyptus (Maucci, 1987) <Transferred from *Diphascon* by Tumanov 2018>
Pilatobius patanei (Binda & Pilato, 1971) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius procerus (Pilato, Sabella & Lisi, 2014) <Transferred from *Diphascon* by Tumanov 2018>
Pilatobius ramazzottii (Robotti, 1970) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius recamieri (Richters, 1911) <Transferred from *Diphascon* by Bertolani *et al.* 2014> <Amended by Gašiorek *et al.* 2017a>
Pilatobius rugocaudatus (Rodriguez Roda, 1952) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius rugosus (Bartoš, 1935) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius secchii (Bertolani & Rebecchi, 1996) <Transferred from *Diphascon* by Bertolani *et al.* 2014> {*nomen inquirendum* according to Gašiorek *et al.* 2017a}
Pilatobius sexbullatus (Ito, 1995) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius trachydorsatus (Bartoš, 1937) <Transferred from *Diphascon* by Bertolani *et al.* 2014>
Pilatobius ziliense (Lisi, Sabella & Pilato, 2014) <Transferred from *Diphascon* by Tumanov 2018>

Incerta subfamilia {according to Bertolani *et al.* 2014}

Acutuncus Pilato & Binda, 1997

<Transferred from Hypsibiinae by Bertolani *et al.* 2014>

Acutuncus antarcticus (Richters, 1904) [*Hypsibius simoizumii* Sudzuki, 1964]

Mixibius Pilato, 1992

{to be confirmed in the family Isohypsibiidae, see Marley *et al.* 2011 }

<Transferred from Isohypsibiidae by Bertolani *et al.* 2014>

Mixibius felix Pilato, Sabella, D'Urso & Lisi, 2017

Mixibius fueginus Pilato & Binda, 1996

Mixibius ninguidus Biserov, 1999

Mixibius ornatus Pilato, Binda, Napolitano & Moncada, 2002

Mixibius parvus Lisi, Sabella & Pilato, 2014

Mixibius pilatoi L. Wang, 2009

Mixibius saracenus (Pilato, 1973)

Mixibius schnurrae Pilato, Lisi & Binda, 2010

Mixibius sutirae Pilato, Binda & Lisi 2004

Mixibius tibetanus H. Li & X. Li, 2008

Family: Microhypsibiidae Pilato, 1998

<Amended by Gąsiorek *et al.* 2019a>

Fractonotus Pilato, 1998 {see Isohypsibiidae}

Fractonotus caelatus (Marcus, 1928)

Microhypsibius Thulin, 1928

Microhypsibius bertolanii Kristensen, 1982

Microhypsibius japonicus Ito, 1991

Microhypsibius minimus Kristensen, 1982

Microhypsibius truncatus Thulin, 1928

Family: Ramazzottiidae Sands, McInnes, Marley, Goodall-Copestake, Convey & Linse, 2008

{Sands *et al.* (2008) reported as taxon name Ramazzottidae but the correct name is Ramazzottiidae in compliance with the International Code of Zoological Nomenclature }

Cryoconicus Zawierucha, Stec, Lachowska-Cierlik, Takeuchi, Z. Li & Michalczyk, 2018

Cryoconicus cataphractus (Maucci, 1974) <Transferred from *Ramazzottius* by Zawierucha *et al.* 2018b>

Cryoconicus kaczmareki Zawierucha, Stec, Lachowska-Cierlik, Takeuchi, Z. Li & Michalczyk, 2018

Hebesuncus Pilato, 1987

Hebesuncus conjugens (Thulin, 1911)

Hebesuncus mollispinus Pilato, McInnes & Lisi, 2012

Hebesuncus ryani Dastych & Harris, 1994

Hebesuncus schusteri (Dastych, 1984)

Ramazzottius Binda & Pilato, 1986

Ramazzottius affinis Bertolani, Guidetti & Rebecchi, 1994

Ramazzottius agannae Dastych, 2011

Ramazottius andreevi Biserov, 1997/98
Ramazottius anomalus (Ramazzotti, 1962)
Ramazottius arcticus (Murray, 1907) [*Macrobiotus heinisi* Richters, 1907] <Transferred from *Hypsibius* by Gąsiorek *et al.* 2018a>
Ramazottius baumanni (Ramazzotti, 1962)
Ramazottius belubellus Bartels, Nelson, Kaczmarek & Michalczyk, 2011
Ramazottius bunikowskiae Kaczmarek, Michalczyk & Diduszko, 2006
Ramazottius caucasicus Biserov, 1997/98
Ramazottius conifer (Mihelčič, 1938) <Transferred from *Hypsibius* by Gąsiorek *et al.* 2018a>
Ramazottius edmondabouti Séméria, 1993
Ramazottius horningi Binda & Pilato, 1994
Ramazottius libycus Pilato, D'Urso & Lisi, 2013
Ramazottius littoreus Fontoura, Rubal & Veiga, 2017
Ramazottius ljudmilae Biserov, 1997/98
Ramazottius montivagus (Dastych, 1983)
Ramazottius nivalis Dastych, 2006
Ramazottius novemcinctus (Marcus, 1936)
Ramazottius oberhaeuseri (Doyère, 1840) <Amended by Stec *et al.* 2018>
Ramazottius rupeus Biserov, 1999
Ramazottius saltensis (Claps & Rossi, 1984)
Ramazottius semisculptus Pilato & Rebecchi, 1992
Ramazottius subanomalus (Biserov, 1985)
Ramazottius szeptycki (Dastych, 1980) <Amended by Dastych 2009>
Ramazottius theroni Dastych, 1993
Ramazottius thulini (Pilato, 1970)
Ramazottius tribulosus Bertolani & Rebecchi, 1988
Ramazottius valaamis Biserov & Tumanov, 1993
Ramazottius varieornatus Bertolani & Kinchin, 1993

Order: ISOHYPSIBIOIDEA Guil, Jørgensen & Kristensen, 2019

<Corresponding to the superfamily Isohypsibioidea Sands, McInnes, Marley, Goodal-Copestake, Convey & Linse, 2008 amended by Bertolani *et al.* 2014 and Gąsiorek *et al.* 2019c and subsequently elevated to higher level by Guil *et al.* 2019>

Family: Doryphoribiidae Gąsiorek, Stec, Morek & Michalczyk, 2019

Apodibius Dastych, 1983

<Transferred from 'incertae sedis' to Isohypsibiidae by Dabert *et al.* 2013; Transferred from Isohypsibiidae by Gąsiorek *et al.* 2019c>

Apodibius confusus Dastych, 1983

Apodibius nuntius Binda, 1984 [*Apodibius serventyi* Morgan & Nicholls, 1986]

Apodibius richardi Vargha, 1995

Doryphoribius Pilato, 1969

<Transferred from Isohypsibiidae by Gąsiorek *et al.* 2019c>

Doryphoribius amazonicus Lisi, 2011

Doryphoribius barbarae Beasley & Miller, 2012

Doryphoribius bertolanii Beasley & Pilato, 1987
Doryphoribius bindae Lisi, 2011
Doryphoribius chetumalensis Pérez-Pech, Anguas-Escalante, Cutz-Pool & Guidetti, 2017
Doryphoribius dawkinsi Michalczyk & Kaczmarek, 2010
Doryphoribius doryphorus (Binda & Pilato, 1969)
Doryphoribius dupliglobulatus Ito, 1995
Doryphoribius elleneddiei Haefke, Spiers, Miller & Lowman, 2014
Doryphoribius evelinae (Marcus, 1928)
Doryphoribius flavus (Iharos, 1966) [*Doryphoribius citrinus* (Maucci, 1973)] <Amended by Lisi 2011>
Doryphoribius gibber Beasley & Pilato, 1987 {Based on type material analysis, additional character to the original description was added by Pilato & Lisi 2006}
Doryphoribius huangguoshuensis H. Wang, L. Wang & X. Li, 2007
Doryphoribius koreanus Moon, Kim & Bertolani, 1994
Doryphoribius korganovae Biserov, 1994
Doryphoribius longistipes Bartels, Nelson, Kaczmarek & Michalczyk, 2008
Doryphoribius macrodon Binda, Pilato & Dastych, 1980
Doryphoribius maasaimarensis Fontoura, Lisi & Pilato, 2013
Doryphoribius maranguensis Binda & Pilato, 1995
Doryphoribius mariae Pilato & Binda, 1990
Doryphoribius mcinnesae Meng, Sun & X. Li, 2014
Doryphoribius mexicanus Beasley, Kaczmarek & Michalczyk, 2008
Doryphoribius minimus Bartels, Nelson, Kaczmarek & Michalczyk, 2008
Doryphoribius monstruosus (Maucci, 1991) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
Doryphoribius neglectus Pilato & Lisi, 2004
Doryphoribius niedbalai Zawierucha, Michalczyk & Kaczmarek, 2012
Doryphoribius picoensis Fontoura, Pilato & Lisi, 2008
Doryphoribius pilatoi Bertolani, 1984
Doryphoribius polynettae Biserov, 1988
Doryphoribius qinlingense X. Li, Su & Yu, 2004
Doryphoribius quadrituberculatus Kaczmarek & Michalczyk, 2004
Doryphoribius rosanae Daza, Caicedo, Lisi & Quiroga, 2017
Doryphoribius smokiensis Bartels, Nelson, Kaczmarek & Michalczyk, 2007
Doryphoribius solidunguis Lisi, 2011
Doryphoribius taiwanus X. Li & H. Li, 2008
Doryphoribius tergumrudis Bartels, Nelson, Kaczmarek & Michalczyk, 2008
Doryphoribius tessellatus Meyer, 2011
Doryphoribius turkmenicus Biserov, 1999
Doryphoribius vietnamensis (Iharos, 1969)
Doryphoribius zappalai Pilato, 1971
Doryphoribius zyxiglobus (Horning, Schuster & Grigarick, 1978) <Amended by Claxton *et al.* 2010>

Grevenius Gąsiorek, Stec, Morek & Michalczyk, 2019

Grevenius annulatus annulatus (Murray, 1905) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>

Grevenius annulatus minor (Ramazzotti, 1945) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius asper (Murray, 1906) [*Isohypsibius tetradactyloides* (Richters, 1907)] {Dastyč 2016 amended *I. tetradactyloides* and synonymized it with *I. asper*} <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius baicalensis (Ramazzotti, 1966) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius baldii (Ramazzotti, 1945) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius baldioides (Tumanov, 2003) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius brevitubulatus (Rho, Chang & Kim, 1997) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius deconincki (Pilato, 1971) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius deflexus (Mihelčič, 1960) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius fuscus (Mihelčič, 1971/72) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c> <nomen inquirendum according to Gąsiorek et al. 2019c>

Grevenius granditintinus (Chang & Rho, 1996) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius granulifer ~~*granulifer*~~ (Thulin, 1928) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius hydrogogianus (Ito & Tagami, 1993) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius irregibilis (Biserov, 1992) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius karenae (Zawierucha, 2013) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius kenodontis (Kendall-Fite & Nelson, 1996) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius koreanensis (Iharos, 1971) <*Isohypsibius granulifer koreanensis* (Iharos, 1971) elevated to a species rank and transferred by Gąsiorek et al. 2019c> <nomen inquirendum according to Gąsiorek et al. 2019c>

Grevenius kotovae (Tumanov, 2003) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius kristenseni (Pilato, Catanzaro & Binda, 1989) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius ladogensis (Tumanov, 2003) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius laevis (McInnes, 1995) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius lineatus (Mihelčič, 1969) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c> <nomen inquirendum according to Gąsiorek et al. 2019c>

Grevenius longiunguis (Pilato, 1974) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius malawiensis (Jørgensen, 2001) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius marii (Bertolani, 1982) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius monoicus (Bertolani, 1982) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius myrops (du Bois-Reymond Marcus, 1944) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius nipponicus (Sudzuki, 1975) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c> <nomen inquirendum according to Gąsiorek et al. 2019c>

Grevenius pulcher (Mihelčič, 1971/72) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

<nomen inquirendum according to Gąsiorek et al. 2019c>

Grevenius pushkini (Tumanov, 2003) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius rugosus (Guidi & Grabowski, 1996) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c> <nomen inquirendum according to Gąsiorek et al. 2019c>

Grevenius rusticus (Pilato, Sabella & Lisi, 2015) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius sismicus (Maucci, 1978) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius tuberculatus (Pilato & Catanzaro, 1989) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius verae (Pilato & Catanzaro, 1989) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Grevenius zappalai (Pilato, Sabella & Lisi, 2015) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Paradiphascon Dastych, 1992

<Transferred from Diphasconinae to Isohypsibiidae by Bertolani et al. 2014> <Transferred from Isohypsibiidae by Gąsiorek et al. 2019c>

Paradiphascon manningi Dastych, 1992

Pseudobiotus Nelson, 1980

<Transferred from Isohypsibiidae by Gąsiorek et al. 2019c>

Pseudobiotus hirsutellus Pilato, Lisi & Binda, 2010

Pseudobiotus kathmanae Nelson, Marley & Bertolani, 1999

Pseudobiotus longiunguis (Iharos, 1968) <species dubia according to Gąsiorek et al. 2019c>

Pseudobiotus matici (Pilato, 1971)

Pseudobiotus megalonyx (Thulin, 1928)

Pseudobiotus spinifer Chang, Kaczmarek, Lee & Michalczyk, 2007

Pseudobiotus vladimiri Biserov, Dudichev & Biserova, 2001 <Amended by Chang et al. 2007>

Thulinus Bertolani, 2003

[*Thulinia* Bertolani, 1982]

<Transferred from Isohypsibiidae by Gąsiorek et al. 2019c>

Thulinus augusti (Murray, 1907) [*Macrobiotus lacustris* Wenck, 1914]

Thulinus itoi (Tsurusaki, 1980)

Thulinus romanoi Bertolani, Bartels, Guidetti, Cesari & Nelson, 2014

Thulinus ruffoi (Bertolani, 1982)

Thulinus saltursus (Schuster, Toftner & Grigarick, 1978) <Amended and transferred from *Isohypsibius* by Kaczmarek et al. 2010>

Thulinus stephaniae (Pilato, 1974)

Family: Halobiotidae Gąsiorek, Stec, Morek & Michalczyk, 2019

Halobiotus Kristensen, 1982

<Transferred from Isohypsibiidae by Gąsiorek et al. 2019c>

Halobiotus appelloefi (Richters, 1908) <Transferred from *Macrobiotus* by Gąsiorek et al. 2019c>

<nomen inquirendum according to Gąsiorek et al. 2019c>

Halobiotus arcturulus Crisp & Kristensen, 1983

Halobiotus crispae Kristensen, 1982

Halobiotus geddesi (Hallas, 1971) <Transferred from *Hypsibius* by Gąsiorek *et al.* 2019c>
<nomen inquirendum according to Gąsiorek *et al.* 2019c>

Halobiotus stenostomus (Richters, 1908) [~~*Macrobiotus appelloefi* Richters, 1908; *Hypsibius (Isohypsibius) geddesi* Hallas, 1971~~]

Family: Hexapodibiidae Cesari, Vecchi, Palmer, Bertolani, Pilato, Rebecchi & Guidetti, 2016
<Amended by Gąsiorek *et al.* 2019c>

Haplohexapodibius Pilato & Beasley, 1987

<Transferred from Calohypsibiidae to Isohypsibiidae by Bertolani *et al.* 2014> <Transferred from Isohypsibiidae by Cesari *et al.* 2016>

Haplohexapodibius seductor Pilato & Beasley, 1987 [*Hexapodibius beasleyi* Maucci, 1988]

Haplomacrobiotus May, 1948

<Transferred from Calohypsibiidae to Isohypsibiidae by Bertolani *et al.* 2014> <Transferred from Isohypsibiidae by Cesari *et al.* 2016>

Haplomacrobiotus hermosillensis May, 1948

Haplomacrobiotus utahensis Pilato & Beasley, 2005

Hexapodibius Pilato, 1969

<Transferred from Calohypsibiidae to Isohypsibiidae by Bertolani *et al.* 2014> <Transferred from Isohypsibiidae by Cesari *et al.* 2016>

Hexapodibius bindae Pilato, 1982

Hexapodibius boothi Dastych & McInnes, 1994

Hexapodibius christenberryae Pilato & Binda, 2003

Hexapodibius micronyx Pilato, 1969

Hexapodibius pseudomicronyx Robotti, 1972

Hexapodibius reginae Vargha, 1995

Parhexapodibius Pilato, 1969

<Transferred from Calohypsibiidae to Isohypsibiidae by Bertolani *et al.* 2014> <Transferred from Isohypsibiidae by Cesari *et al.* 2016>

Parhexapodibius bactrianus Biserov, 1999

Parhexapodibius castrii (Ramazzotti, 1964)

Parhexapodibius lagrecai (Binda & Pilato, 1969)

Parhexapodibius pilatoi (Bernard, 1977)

Parhexapodibius ramazzottii Manicardi & Bertolani, 1987

Family: Isohypsibiidae Sands, McInnes, Marley, Goodall-Copestake, Convey & Linse, 2008
<Amended by Gąsiorek *et al.* 2019c>

Apodibius Dastych, 1983 {see Doryphoribiidae}

<Transferred from 'incertae sedis' by Dabert *et al.* 2013>

Apodibius confusus Dastych, 1983

Apodibius nuntius Binda, 1984 [*Apodibius serventyi* Morgan & Nicholls, 1986]

Apodibius richardi Vargha, 1995

Dastychius Pilato, 2013

Dastychius improvisus (Dastych, 1984) <Transferred from *Isohypsibius* by Pilato 2013>

Dianeae Gąsiorek, Stec, Morek & Michalczyk, 2019

Dianeae acuminata Gąsiorek, Stec, Morek & Michalczyk, 2019 [Renamed *Isohypsibius papillifer indicus* (Iharos, 1969) in Gąsiorek *et al.* 2019c]

Dianeae basalovoi (Durante & Maucci, 1973) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>

Dianeae belliforma (Mihelčič, 1971) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
<species dubia according to Gąsiorek *et al.* 2019c>

Dianeae bella (Mihelčič, 1971) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
<species dubia according to Gąsiorek *et al.* 2019c>

Dianeae brevispinosa (Iharos, 1966) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
<species dubia according to Gąsiorek *et al.* 2019c>

Dianeae costata (Mihelčič, 1971) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
<species dubia according to Gąsiorek *et al.* 2019c>

Dianeae effusa (Mihelčič, 1971) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
<species dubia according to Gąsiorek *et al.* 2019c>

Dianeae franzi (Mihelčič, 1951) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
<species dubia according to Gąsiorek *et al.* 2019c>

Dianeae helenae (Iharos, 1964) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c> <nomen inquirendum according to Gąsiorek *et al.* 2019c>

Dianeae indica (Murray, 1907) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c> <nomen inquirendum according to Gąsiorek *et al.* 2019c>

Dianeae mammillosa (Iharos, 1964) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
<species dubia according to Gąsiorek *et al.* 2019c>

Dianeae papillifera ~~*papillifer*~~ (Murray, 1905) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>; *Isohypsibius papillifer bulbosus* (Marcus, 1928) suppressed by Gąsiorek *et al.* 2019c>

Dianeae rahmi (X. Li & L. Wang, 2006) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>

Dianeae sattleri (Richters, 1902) [*Hypsibius bakonyiensis* Iharos, 1964] {the correct reference of Dastych 1990 cited in the previous check lists is: Dastych, H. (1991) *Isohypsibius sattleri* (Richters 1902), a valid species (Tardigrada). *Senckenbergiana biologica*, 71, 181–189.}
<Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>

Dianeae tuberculoides (Mihelčič, 1951) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
<species dubia according to Gąsiorek *et al.* 2019c>

Dianeae vejdvoskyi (Bartoš, 1939) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
<nomen inquirendum according to Gąsiorek *et al.* 2019c>

Doryphoribius Pilato, 1969 {see *Doryphoribiidae*}

Doryphoribius amazonicus Lisi, 2011

Doryphoribius barbarae Beasley & Miller, 2012

Doryphoribius bertolanii Beasley & Pilato, 1987

Doryphoribius bindae Lisi, 2011

Doryphoribius chetumalensis Pérez-Pech, Anguas-Escalante, Cutz-Pool & Guidetti, 2017

Doryphoribius dawkinsi Michalezyk & Kaczmarek, 2010
Doryphoribius doryphorus (Binda & Pilato, 1969)
Doryphoribius dupliglobulatus Ito, 1995
Doryphoribius elleneddici Haefke, Spiers, Miller & Lowman, 2014
Doryphoribius evelinae (Marcus, 1928)
Doryphoribius flavus (Iharos, 1966) [*Doryphoribius citrinus* (Maucci, 1973)] <Amended by Lisi 2011>
Doryphoribius gibber Beasley & Pilato, 1987 {Based on type material analysis, additional character to the original description was added by Pilato & Lisi 2006}
Doryphoribius huangguoshuensis H. Wang, L. Wang & X. Li, 2007
Doryphoribius koreanus Moon, Kim & Bertolani, 1994
Doryphoribius korganovae Biserov, 1994
Doryphoribius longistipes Bartels, Nelson, Kaczmarek & Michalezyk, 2008
Doryphoribius macrodon Binda, Pilato & Dastych, 1980
Doryphoribius maasaimarensis Fontoura, Lisi & Pilato, 2013
Doryphoribius maranguensis Binda & Pilato, 1995
Doryphoribius mariae Pilato & Binda, 1990
Doryphoribius mcinnesae Meng, Sun & X. Li, 2014
Doryphoribius mexicanus Beasley, Kaczmarek & Michalezyk, 2008
Doryphoribius minimus Bartels, Nelson, Kaczmarek & Michalezyk, 2008
Doryphoribius neglectus Pilato & Lisi, 2004
Doryphoribius niedbalai Zawierucha, Michalezyk & Kaczmarek, 2012
Doryphoribius picoensis Fontoura, Pilato & Lisi, 2008
Doryphoribius pilatoi Bertolani, 1984
Doryphoribius polynettae Biserov, 1988
Doryphoribius qinlingense X. Li, Su & Yu, 2004
Doryphoribius quadrituberculatus Kaczmarek & Michalezyk, 2004
Doryphoribius rosanae Daza, Caicedo, Lisi & Quiroga, 2017
Doryphoribius smokiensis Bartels, Nelson, Kaczmarek & Michalezyk, 2007
Doryphoribius solidunguis Lisi, 2011
Doryphoribius taiwanus X. Li & H. Li, 2008
Doryphoribius tergumrudis Bartels, Nelson, Kaczmarek & Michalezyk, 2008
Doryphoribius tessellatus Meyer, 2011
Doryphoribius turkmenicus Biserov, 1999
Doryphoribius vietnamensis (Iharos, 1969)
Doryphoribius zappalai Pilato, 1971
Doryphoribius zyxiglobus (Horning, Schuster & Grigarick, 1978) <Amended by Claxton *et al.* 2010>

Eremobiotus Biserov, 1992

Eremobiotus alicatai (Binda, 1969)

Eremobiotus ginevrae Lisi, Binda & Pilato, 2016

Eremobiotus ovezovae Biserov, 1992

Fractonotus Pilato, 1998

<Amended and transferred from Microhypsibiidae by Gąsiorek *et al.* 2019a>

Fractonotus caelatus (Marcus, 1928)

Fractonotus gilvus (Biserov, 1986) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019a>
Fractonotus verrucosus (Richters, 1900) [*Macrobiotus scabrosus* Murray, 1911 according to Marcus 1928, *Calohypsibius placophorus* (da Cunha, 1943) according to Gąsiorek *et al.* 2019a] <Amended and transferred from *Calohypsibius* by Gąsiorek *et al.* 2019a>

Halobiotus Kristensen, 1982

Halobiotus arcturulus Crisp & Kristensen, 1983

Halobiotus crispae Kristensen, 1982

Halobiotus stenostomus (Richters, 1908) [*Macrobiotus appelloefi* Richters, 1908; *Hypsibius* (*Isohypsibius*) *geddesi* Hallas, 1971]

Isohypsibius Thulin, 1928

<Amended by Gąsiorek *et al.* 2019c>

Isohypsibius altai Kaczmarek & Michalczyk, 2006

Isohypsibius annulatus annulatus (Murray, 1905) {see *Grevenius*}

Isohypsibius annulatus minor (Ramazzotti, 1945) {see *Grevenius*}

Isohypsibius arbiter Binda, 1980

Isohypsibius archangajensis Kaczmarek & Michalczyk, 2004

Isohypsibius arcuatus (Bartoš, 1934)

Isohypsibius asper (Murray, 1906) [*Isohypsibius tetradaetyloides* (Richters, 1907)] {*Dastych* 2016 amended *I. tetradaetyloides* and synonymized it with *I. asper*} {see *Grevenius*}

Isohypsibius austriacus (Iharos, 1966) {see *Ursulinius*}

Isohypsibius baicalensis (Ramazzotti, 1966) {see *Grevenius*}

Isohypsibius baldii (Ramazzotti, 1945) {see *Grevenius*}

Isohypsibius baldioides Tumanov, 2003 {see *Grevenius*}

Isohypsibius barbarae Pilato & Binda, 2002

Isohypsibius bartosi (Iharos, 1966) {see *Ursulinius*}

Isohypsibius basalovoi (Durante & Maucci, 1973) {see *Dianea*}

Isohypsibius belliformis (Mihelčič, 1971) {see *Dianea*}

Isohypsibius bellus (Mihelčič, 1971) {see *Dianea*}

Isohypsibius borkini Tumanov, 2003

Isohypsibius brevispinosus (Iharos, 1966) {see *Dianea*}

Isohypsibius brevitubulatus Rho, Chang & Kim, 1997 {see *Grevenius*}

Isohypsibius brulloi Pilato & Pennisi, 1976

Isohypsibius bulbifer (Mihelčič, 1957) {see *Ursulinius*}

Isohypsibius cameruni (Iharos, 1969) {see *Ursulinius*}

Isohypsibius cambrensis (Morgan, 1976) [*Isohypsibius prosostomus cambrensis* (Morgan, 1976) raised to a species rank by Gąsiorek *et al.* 2019c]

Isohypsibius campbellensis Pilato, 1996

Isohypsibius canadensis (Murray, 1910) <species dubia according to Gąsiorek *et al.* 2019c>

Isohypsibius ceciliae Pilato & Binda, 1987

Isohypsibius changbaiensis Yang, 1999 <species dubia according to Gąsiorek *et al.* 2019c>

Isohypsibius chiarae Maucci, 1987 [*Isohypsibius bertolanii* Manicardi, 1989]

Isohypsibius condorcanquii Kaczmarek, Cytan, Zawierucha, Diduszko & Michalczyk, 2014

Isohypsibius costatus (Mihelčič, 1971) {see *Dianea*}

Isohypsibius coulsoni Kaczmarek, Zawierucha, Smykla & Michalczyk, 2012

Isohypsibius cyrilli (Mihelčič, 1951) {see *Ursulinius*}

Isohypsibius damxungensis Yang, 2007 <species dubia according to Gąsiorek et al. 2019c>
Isohypsibius dastychi Pilato, Bertolani & Binda, 1982
Isohypsibius deconincki Pilato, 1971 {see *Grevenius*}
Isohypsibius deflexus (Mihelčič, 1960) {see *Grevenius*}
Isohypsibius dudichi (Iharos, 1964) {see *Ursulinius*}
Isohypsibius duranteae (Maucci, 1978) {see *Ursulinius*}
Isohypsibius effusus (Mihelčič, 1971) {see *Dianea*}
Isohypsibius elegans Binda & Pilato, 1971 {see *Ursulinius*}
Isohypsibius eplenyiensis (Iharos, 1970) {see *Ursulinius*}
Isohypsibius franzi (Mihelčič, 1951) {see *Dianea*}
Isohypsibius fuscus (Mihelčič, 1971/72) {see *Grevenius*}
Isohypsibius gilvus Biserov, 1986 {see *Fractonotus*}
Isohypsibius glaber (Durante Pasa & Maucci, 1979) {see *Ursulinius*}
Isohypsibius glazovi Biserov, 1999
Isohypsibius gracilis (Iharos, 1966) {see *Ursulinius*}
Isohypsibius granditintinus Chang & Rho, 1996 {see *Grevenius*}
Isohypsibius granulifer granulifer Thulin, 1928 {see *Grevenius*}
Isohypsibius granulifer koreanensis (Iharos, 1971) {see *Grevenius*}
Isohypsibius gyulai (Mihelčič, 1971) {see *Ursulinius*}
Isohypsibius hadzii (Mihelčič, 1938) <species dubia according to Gąsiorek et al. 2019c>
Isohypsibius helenae (Iharos, 1964) {see *Dianea*}
Isohypsibius hydrogogianus Ito & Tagami, 1993 {see *Grevenius*}
Isohypsibius hypostomoides (Mihelčič, 1971) {see *Ursulinius*}
Isohypsibius indicus (Murray, 1907) {see *Dianea*}
Isohypsibius irregibilis Biserov, 1992 {see *Grevenius*}
Isohypsibius jakieli Dastych, 1984
Isohypsibius jingshanensis Yang, 2003 <species dubia according to Gąsiorek et al. 2019c>
Isohypsibius jinhouensis Yang, 2007 <species dubia according to Gąsiorek et al. 2019c>
Isohypsibius josephi (Iharos, 1964) {see *Ursulinius*}
Isohypsibius karenae Zawierucha, 2013 {see *Grevenius*}
Isohypsibius kenodontis Kendall Fite & Nelson, 1996 {see *Grevenius*}
Isohypsibius kotovae Tumanov, 2003 {see *Grevenius*}
Isohypsibius kristenseni Pilato, Catanzaro & Binda, 1989 {see *Grevenius*}
Isohypsibius ladogensis Tumanov, 2003 {see *Grevenius*}
Isohypsibius laevis McInnes, 1995 {see *Grevenius*}
Isohypsibius latiunguis (Iharos, 1964) {see *Ursulinius*}
Isohypsibius leithaicus (Iharos, 1966) {see *Ursulinius*}
Isohypsibius liae X. Li & L. Wang, 2006 <nomen inquirendum according to Gąsiorek et al. 2019c>
Isohypsibius lineatus (Mihelčič, 1969) {see *Grevenius*}
Isohypsibius longiunguis Pilato, 1974 {see *Grevenius*}
Isohypsibius lunulatus (Iharos, 1966) {see *Ursulinius*}
Isohypsibius macrodactylus (Maucci, 1978) [*Isohypsibius zierhofferi* Dastych, 1980]
Isohypsibius malawiensis Jørgensen, 2001 {see *Grevenius*}
Isohypsibius mammillosus (Iharos, 1964) {see *Dianea*}
Isohypsibius marcellinoi Binda & Pilato, 1971
Isohypsibius marii Bertolani, 1982 {see *Grevenius*}

Isohypsibius miheleici (Iharos, 1964) {see *Ursulinius* }
Isohypsibius monoicus Bertolani, 1982 {see *Grevenius* }
Isohypsibius monstruosus Maucci, 1991 {see *Doryphoribius* }
Isohypsibius montanus Mihelčič, 1938 {see *Ursulinius* }
Isohypsibius myrops (du Bois-Reymond Marcus, 1944) {see *Grevenius* }
Isohypsibius neoundulatus (Durante Pasa & Maucci, 1975) {see *Ursulinius* }
Isohypsibius nipponicus Sudzuki, 1975 {see *Grevenius* }
Isohypsibius nodosus (Murray, 1907) {see *Ursulinius* }
Isohypsibius novaeguineae (Iharos, 1967) {see *Ursulinius* }
Isohypsibius occultus Pilato, D'Urso, Sabella & Lisi, 2019
Isohypsibius palmai Pilato, 1996
Isohypsibius panovi Tumanov, 2005
Isohypsibius papillifer papillifer (Murray, 1905) {see *Dianeae* }
Isohypsibius papillifer bulbosus (Marcus, 1928) <Suppressed by Gašiorek *et al.* 2019c>
Isohypsibius papillifer indicus (Iharos, 1969) {see *Dianeae acuminata* }
Isohypsibius pappi (Iharos, 1966) {see *Ursulinius* }
Isohypsibius pauper (Mihelčič, 1971) <nomen inquirendum according to Gašiorek *et al.* 2019c>
Isohypsibius pilatoi (Durante Pasa & Maucci, 1979) {see *Ursulinius* }
Isohypsibius pratensis (Iharos, 1964) {see *Ursulinius* }
Isohypsibius prosostomus prosostomus Thulin, 1928
Isohypsibius prosostomus cambrensis (Morgan, 1976) {see *I. cambrensis* }
Isohypsibius pseudoundulatus (da Cunha & do Nascimento Ribeiro, 1964)
Isohypsibius pulcher (Mihelčič, 1971/72) {see *Grevenius* }
Isohypsibius pushkini Tumanov, 2003 {see *Grevenius* }
Isohypsibius qinlingensis X. Li, L. Wang & Yu, 2005 {see *Ursulinius* }
Isohypsibius rahmi X. Li & L. Wang, 2006 {see *Dianeae* }
Isohypsibius reticulatus Pilato, 1973
Isohypsibius roberti Biserov, 1996 {see *Ursulinius* }
Isohypsibius ronsisvallei Binda & Pilato, 1969 {see *Ursulinius* }
Isohypsibius rudescui (Iharos, 1966) {see *Ursulinius* }
Isohypsibius rugosus Guidi & Grabowski, 1996 {see *Grevenius* }
Isohypsibius rusticus Pilato, Sabella & Lisi, 2015 {see *Grevenius* }
Isohypsibius sabellai Pilato, Binda, Napolitano & Moncada, 2004
Isohypsibius sattleri (Richters, 1902) [*Hypsibius bakonyiensis* Iharos, 1964] {the correct reference of Dastych 1990 cited in the previous check lists is: Dastych, H. (1991) *Isohypsibius sattleri* (Richters 1902), a valid species (Tardigrada). *Senckenbergiana biologica*, 71, 181–189.} {see *Dianeae* }
Isohypsibius schaudinni (Richters, 1909) <nomen inquirendum according to Gašiorek *et al.* 2019c>
Isohypsibius sculptus (Ramazzotti, 1962)
Isohypsibius sellnicki (Mihelčič, 1962)
Isohypsibius septentrionalis Thulin, 1928 {see *Ursulinius* }
Isohypsibius silvicola (Iharos, 1966) {see *Ursulinius* }
Isohypsibius sismicus (Maucci, 1978) {see *Grevenius* }
Isohypsibius solidus (Mihelčič, 1971)
Isohypsibius taibaiensis X. Li & L. Wang, 2005
Isohypsibius theresiae (Iharos, 1964) {see *Ursulinius* }

Isohypsibius torulosus (Mihelčič, 1959) {see *Ursulinius*}
Isohypsibius truncorum (Iharos, 1964) {see *Ursulinius*}
Isohypsibius tuberculatus (Plate, 1888) <nomen inquirendum according to Gąsiorek *et al.* 2019c>
Isohypsibius tuberculoides (Mihelčič, 1951) {see *Dianea*}
Isohypsibius tuberciculatus Pilato & Catanzaro, 1989 {see *Grevenius*}
Isohypsibius tucumanensis Claps & Rossi, 1984 {see *Ursulinius*}
Isohypsibius undulatus Thulin, 1928
Isohypsibius vejdoskyi (Bartoš, 1939) {see *Dianea*}
Isohypsibius verae Pilato & Catanzaro, 1989 {see *Grevenius*}
Isohypsibius verrucosus (Della Valle, 1915) [*Isohypsibius gibbus* (Marcus, 1928)] <nomen inquirendum according to Gąsiorek *et al.* 2019c>
Isohypsibius wilsoni (Horning, Schuster & Grigarick, 1978)
Isohypsibius woodsae Kathman, 1990 {see *Ursulinius*}
Isohypsibius yunnanensis Yang, 2002 <species dubia according to Gąsiorek *et al.* 2019c>
Isohypsibius zappalai Pilato, Sabella & Lisi, 2015 {see *Grevenius*}

Paradiphascon Dastych, 1992 {see *Doryphoribiidae*}
<Transferred from *Diphasconinae* by Bertolani *et al.* 2014>

Paradiphascon manningi Dastych, 1992

Pseudobiotus Nelson, 1980 {see *Doryphoribiidae*}

Pseudobiotus hirsutellus Pilato, Lisi & Binda, 2010
Pseudobiotus kathmanae Nelson, Marley & Bertolani, 1999
Pseudobiotus longiunguis (Iharos, 1968)
Pseudobiotus matici (Pilato, 1971)
Pseudobiotus megalonyx (Thulin, 1928)
Pseudobiotus spinifer Chang, Kaczmarek, Lee & Michalezyk, 2007
Pseudobiotus vladimiri Biserov, Dudichev & Biserova, 2001 <Amended by Chang *et al.* 2007>

Ramajendas Pilato & Binda, 1990 {see *incertae sedis*}

{probably belongs to the family *Ramazzottiidae* according to Bertolani *et al.* 2014}
<Transferred from *Ramazzottiidae* by Zawierucha *et al.* 2018b>

Ramajendas dastychi Kaczmarek, Janko, Smykla & Michalezyk, 2013
Ramajendas frigidus Pilato & Binda, 1990
Ramajendas heatwolei Miller, Horning & Dastych, 1995
Ramajendas renaudi (Ramazzotti, 1972)

Thalerius Dastych, 2009 {see *incertae sedis*}

{to be confirmed in the family *Isohypsibiidae*, see Marley *et al.* 2011; probably belongs to the family *Ramazzottiidae* according to Bertolani *et al.* 2014}
<Transferred from *Ramazzottiidae* by Zawierucha *et al.* 2018b>

Thalerius konradi Dastych, 2009

Thulinus Bertolani, 2003 {see *Doryphoribiidae*}

{*Thulinia* Bertolani, 1982}

Thulinus augusti (Murray, 1907) [*Macrobiotus lacustris* Wenck, 1914]
Thulinus itoi (Tsurusaki, 1980)

~~*Thulinus romanoi* Bertolani, Bartels, Guidetti, Cesari & Nelson, 2014~~

~~*Thulinus ruffoi* (Bertolani, 1982)~~

~~*Thulinus saltursus* (Schuster, Toftner & Grigarick, 1978) <Amended and transferred from *Isohypsibius* by Kaczmarek et al. 2010>~~

~~*Thulinus stephaniae* (Pilato, 1974)~~

Ursulinius Gąsiorek, Stec, Morek & Michalczyk, 2019

Ursulinius austriacus (Iharos, 1966) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Ursulinius bartosi (Iharos, 1966) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

<species dubia according to Gąsiorek et al. 2019c>

Ursulinius bulbifer (Mihelčič, 1957) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

<species dubia according to Gąsiorek et al. 2019c>

Ursulinius cameruni (Iharos, 1969) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Ursulinius cyrilli (Mihelčič, 1951) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Ursulinius dudichi (Iharos, 1964) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Ursulinius durantee (Maucci, 1978) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Ursulinius elegans (Binda & Pilato, 1971) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Ursulinius eplenyiensis (Iharos, 1970) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Ursulinius glaber (Durante Pasa & Maucci, 1979) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Ursulinius gracilis (Iharos, 1966) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

<nomen inquirendum according to Gąsiorek et al. 2019c>

Ursulinius gyulai (Mihelčič, 1971) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

<species dubia according to Gąsiorek et al. 2019c>

Ursulinius hypostomoides (Mihelčič, 1971) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Ursulinius josephi (Iharos, 1964) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Ursulinius latiunguis (Iharos, 1964) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

<nomen inquirendum according to Gąsiorek et al. 2019c>

Ursulinius leithaicus (Iharos, 1966) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Ursulinius lunulatus (Iharos, 1966) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

<nomen inquirendum according to Gąsiorek et al. 2019c>

Ursulinius mihelcici (Iharos, 1964) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

<nomen inquirendum according to Gąsiorek et al. 2019c>

Ursulinius montanus Mihelčič, 1938 <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

<nomen inquirendum according to Gąsiorek et al. 2019c>

Ursulinius neoundulatus (Durante Pasa & Maucci, 1975) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Ursulinius nodosus (Murray, 1907) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Ursulinius novaeguineae (Iharos, 1967) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Ursulinius pappi (Iharos, 1966) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Ursulinius pilatoi (Durante Pasa & Maucci, 1979) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

Ursulinius pratensis (Iharos, 1964) <Transferred from *Isohypsibius* by Gąsiorek et al. 2019c>

<nomen inquirendum according to Gąsiorek et al. 2019c>

Ursulinius qinlingensis (X. Li, L. Wang & Yu, 2005) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
Ursulinius roberti (Biserov, 1996) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
Ursulinius ronsisvallei (Binda & Pilato, 1969) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
Ursulinius rudescui (Iharos, 1966) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
Ursulinius septentrionalis (Thulin, 1928) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
Ursulinius silvicola (Iharos, 1966) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
<nomen inquirendum according to Gąsiorek *et al.* 2019c>
Ursulinius theresiae (Iharos, 1964) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
<nomen inquirendum according to Gąsiorek *et al.* 2019c>
Ursulinius torulosus (Mihelčič, 1959) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
Ursulinius truncorum (Iharos, 1964) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
Ursulinius tucumanensis (Claps & Rossi, 1984) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>
Ursulinius woodsae (Kathman, 1990) <Transferred from *Isohypsibius* by Gąsiorek *et al.* 2019c>

Incertae sedis

{according to Gąsiorek *et al.* 2019c}

Ramajendas Pilato & Binda, 1990

{probably belongs to the family Ramazzottiidae according to Bertolani *et al.* 2014}
<Transferred from Ramazzottiidae to Isohypsibiidae by Zawierucha *et al.* 2018b; Transferred from Isohypsibiidae by Gąsiorek *et al.* 2019c>

Ramajendas dastychi Kaczmarek, Janko, Smykla & Michalczyk, 2013

Ramajendas frigidus Pilato & Binda, 1990

Ramajendas heatwolei Miller, Horning & Dastych, 1995

Ramajendas renaudi (Ramazzotti, 1972)

Thalerius Dastych, 2009

{to be confirmed in the family Isohypsibiidae, see Marley *et al.* 2011; probably belongs to the family Ramazzottiidae according to Bertolani *et al.* 2014}

<Transferred from Ramazzottiidae to Isohypsibiidae by Zawierucha *et al.* 2018b; Transferred from Isohypsibiidae by Gąsiorek *et al.* 2019c>

Thalerius konradi Dastych, 2009

Order: MACROBIOTOIDEA Guil, Jørgensen & Kristensen, 2019

<Corresponding to the superfamily Macrobiotodea Thulin, 1928 in Marley *et al.* 2011 elevated to higher level by Guil *et al.* 2019>

Family: Macrobiotidae Thulin, 1928

Biserovus Guidetti & Pilato, 2003

Biserovus bindae (Christenberry & Higgins, 1979)

Calcarobiotus (*Calcarobiotus*) Dastych, 1993

Calcarobiotus (Calcarobiotus) digeronimoi Pilato, Binda & Lisi, 2004
Calcarobiotus (Calcarobiotus) filmeri Dastych, 1993
Calcarobiotus (Calcarobiotus) gildae (Maucci & Durante Pasa, 1980)
Calcarobiotus (Calcarobiotus) hainanensis X. Li, D. Wang & L. Wang, 2008
Calcarobiotus (Calcarobiotus) imperialis Abe & Takeda, 2000
Calcarobiotus (Calcarobiotus) longinoi Kaczmarek, Michalczyk & Guidetti, 2006
Calcarobiotus (Calcarobiotus) occultus Dastych, 1993
Calcarobiotus (Calcarobiotus) parvicalcar Pilato & Lisi, 2009

Calcarobiotus (Discrepunguis) Guidetti & Bertolani, 2001
Calcarobiotus (Discrepunguis) polygonatus (Binda & Guglielmino, 1991) [*Macrobiotus eugranulatus* Maucci, 1993]
Calcarobiotus (Discrepunguis) tetrannulatus Pilato, Binda & Lisi, 2004

Famelobiotus Pilato, Binda & Lisi, 2004
Famelobiotus scalicii Pilato, Binda & Lisi, 2004

Insuetifurca Guidetti & Pilato, 2003
Insuetifurca arrowsmithi (Kathman & Nelson, 1989)
Insuetifurca austronipponica Abe, 2005
Insuetifurca fujiense (Ito, 1997)
Insuetifurca xiae (X. Li, Su & Yu, 2004) <Amended and transferred from *Biserovus* by Li 2009>

Macrobiotus C.A.S. Schultze, 1834
Macrobiotus acadianus (Meyer & Domingue, 2011) {Transferred from *Minibiotus* by Stec *et al.* 2015}
Macrobiotus almadai Fontoura, Pilato & Lisi, 2008
Macrobiotus alvaroi Pilato & Kaczmarek, 2007
Macrobiotus anderssoni Richters, 1907
Macrobiotus andinus Maucci, 1988
Macrobiotus anemone Meyer, Domingue & Hinton, 2014
Macrobiotus annae Richters, 1908
Macrobiotus ariekammensis Węglarska, 1965 [*Macrobiotus adelges* Dastych, 1977]
Macrobiotus artipharyngis Iharos, 1940
Macrobiotus ascensionis Richters, 1908
Macrobiotus biserovi Bertolani, Guidi & Rebecchi, 1996
Macrobiotus brevipes Mihelčič, 1971/72
Macrobiotus caelicola Kathman, 1990
Macrobiotus canarius Stec, Krzywański & Michalczyk, 2018
Macrobiotus carsicus Maucci, 1954
Macrobiotus caymanensis Meyer, 2011
Macrobiotus crenulatus Richters, 1904 [*Macrobiotus dentatus* Binda, 1974]
Macrobiotus dariae Pilato & Bertolani, 2004
Macrobiotus deceptor Meyer, Hinton, Gladney & Klumpp, 2017
Macrobiotus denticulus Dastych, 2002
Macrobiotus diversus Biserov, 1990
Macrobiotus drakensbergi Dastych, 1993

Macrobiotus dulciporus Roszkowska, Gawlak, Draga & Kaczmarek, 2019

Macrobiotus echinogenitus Richters, 1904

Macrobiotus evelinae de Barros, 1938

Macrobiotus furcatus Ehrenberg, 1859 [*nec Macrobiotus furcatus* Murray, 1906] {Re-transferred from *Minibiotus* by Bertolani *et al.* 2014}

Macrobiotus gemmatus Bartoš, 1963

Macrobiotus glebkai Biserov, 1990

Macrobiotus grandis Richters, 1911

Macrobiotus halophilus Fontoura, Rubal & Veiga, 2017

Macrobiotus hanna Nowak & Stec, 2018

Macrobiotus hibiscus de Barros, 1942

Macrobiotus horningi Kaczmarek & Michalczyk, 2017

Macrobiotus hufelandi ~~hufelandi~~ C.A.S. Schultze, 1834 [*Macrobiotus schultzei* Greeff, 1866 according to Marcus 1928]

Macrobiotus humilis Binda & Pilato, 2001

Macrobiotus hyperboreus Biserov, 1990

Macrobiotus iharosi Pilato, Binda & Catanzaro, 1991

Macrobiotus insignis Bartoš, 1963

Macrobiotus insularis Pilato, 2006

Macrobiotus joannae Pilato & Binda, 1983

Macrobiotus julianae (Meyer, 2012) {Transferred from *Minibiotus* by Stec *et al.* 2015}

Macrobiotus kazmierskii Kaczmarek & Michalczyk, 2009

Macrobiotus kirghizicus Tumanov, 2005

Macrobiotus kollerii Mihelčič, 1951

Macrobiotus komareki Bartoš, 1939

Macrobiotus kristenseni Guidetti, Peluffo, Rocha, Cesari & Moly de Peluffo, 2013

Macrobiotus kurasi Dastych, 1981

Macrobiotus lazzaroi Maucci, 1986 [*Macrobiotus spallanzanii* Maucci, 1973]

Macrobiotus lissostomus Durante Pasa & Maucci, 1979

Macrobiotus longipes Mihelčič, 1971/72

Macrobiotus macrocalix Bertolani & Rebecchi, 1993

Macrobiotus maculatus Iharos, 1973 <Amended and elevated to the species level by Kaczmarek & Michalczyk 2017>

Macrobiotus madegassus Maucci, 1993

Macrobiotus mandalae Pilato, 1974

Macrobiotus marlenae Kaczmarek & Michalczyk, 2004

Macrobiotus martini Bartels, Pilato, Lisi & Nelson, 2009

Macrobiotus modestus Pilato & Lisi, 2009

Macrobiotus naskreckii Bąkowski, Roszkowska, Gawlak & Kaczmarek, 2016

Macrobiotus nebrodensis Pilato, Sabella, D'Urso & Lisi, 2017

Macrobiotus nelsonae Guidetti, 1998

Macrobiotus noemiae Roszkowska & Kaczmarek, 2019

Macrobiotus norvegicus Mihelčič, 1971/72

Macrobiotus occidentalis occidentalis Murray, 1910

Macrobiotus occidentalis striatus Dastych, 1974

Macrobiotus ocotensis Pilato, 2006

Macrobiotus ovidii Bartoš, 1937

Macrobiotus ovovillosus Baumann, 1960
Macrobiotus pallarii Maucci, 1954 [*Macrobiotus aviglianae* Robotti, 1970] {Incorrectly transferred to *Mesobiotus* due to an error during the printing process of Vecchi *et al.* 2016a; the authors are waiting an *errata corrigenda* corrected in Vecchi *et al.* 2016b}
Macrobiotus papei Stec, Kristensen & Michalczyk, 2018
Macrobiotus papillosus Iharos, 1963
Macrobiotus patagonicus Maucci, 1988
Macrobiotus paulinae Stec, Smolak, Kaczmarek & Michalczyk, 2015
Macrobiotus persimilis Binda & Pilato, 1972
Macrobiotus personatus Biserov, 1990
Macrobiotus pisacensis Kaczmarek, Cytan, Zawierucha, Diduszko & Michalczyk, 2014
Macrobiotus polonicus Pilato, Kaczmarek, Michalczyk & Lisi, 2003
Macrobiotus polyopus Marcus, 1928
Macrobiotus polypiformis Roszkowska, Ostrowska, Stec, Janko & Kaczmarek, 2017
Macrobiotus porteri Rahm, 1931
Macrobiotus potockii Węglarska, 1968
Macrobiotus primitivae de Barros, 1942
Macrobiotus psephus du Bois-Reymond Marcus, 1944
Macrobiotus pseudofurcatus Pilato, 1972
Macrobiotus punctillus Pilato, Binda & Azzaro, 1990
Macrobiotus ragonesei Binda, Pilato, Moncada & Napolitano, 2001
Macrobiotus ramoli Dastych, 2005
Macrobiotus rawsoni Horning, Schuster & Grigarick, 1978 <Amended by Kaczmarek & Michalczyk 2017>
Macrobiotus recens Cuénot, 1932
Macrobiotus rollei Heinis, 1920
Macrobiotus rubens Murray, 1907
Macrobiotus sandrae Bertolani & Rebecchi, 1993
Macrobiotus santoroi Pilato & D'Urso, 1976
Macrobiotus sapiens Binda & Pilato, 1984
Macrobiotus scoticus Stec, Morek, Gąsiorek, Blagden & Michalczyk, 2017
Macrobiotus semmelweisi Pilato, Binda & Lisi, 2006
Macrobiotus serratus Bertolani, Guidi & Rebecchi, 1996
Macrobiotus seychellensis Biserov, 1994
Macrobiotus shennongensis Yang, 1999
Macrobiotus shonaicus Stec, Arakawa & Michalczyk, 2018
Macrobiotus sottilei Pilato, Kiosya, Lisi & Sabella, 2012
Macrobiotus spectabilis Thulin, 1928
Macrobiotus spertii Ramazzotti, 1957
Macrobiotus striatus Mihelčič, 1949
Macrobiotus terminalis Bertolani & Rebecchi, 1993
Macrobiotus terricola Mihelčič, 1951
Macrobiotus tetraplacoides Fontoura, 1981
Macrobiotus topali Iharos, 1969
Macrobiotus trunovae Biserov, Pilato & Lisi, 2011
Macrobiotus virgatus Murray, 1910
Macrobiotus vladimiri Bertolani, Biserov, Rebecchi & Cesari, 2011

Macrobiotus wuyishanensis Zhang & Sun, 2014
Macrobiotus yunshanensis Yang, 2002

Mesobiotus Vecchi, Cesari, Bertolani, Jönsson, Rebecchi & Guidetti, 2016a
Mesobiotus altitudinalis (Biserov, 1997/98) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus aradasi (Binda, Pilato & Lisi, 2005) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus arguei (Pilato & Sperlinga, 1975) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus armatus (Pilato & Binda, 1996) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a> {*species inquirenda* according to Roszkowska *et al.* 2017}
Mesobiotus australis (Pilato & D'Urso, 1976) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus baltatus (McInnes, 1991) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus barabanovi (Tumanov, 2005) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus barbarae (Kaczmarek, Michalczyk & Degma, 2007) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus binieki (Kaczmarek, Gołdyn, Prokop & Michalczyk, 2011) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus blocki (Dastych, 1984) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus contii (Pilato & Lisi, 2006) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus coronatus (de Barros, 1942) <Amended by Pilato *et al.* 2000> <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus creber (Pilato & Lisi, 2009) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus diffusus (Binda & Pilato, 1987) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus diguensis (Pilato & Lisi, 2009) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus dimentmani (Pilato, Lisi & Binda, 2010) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus divergens (Binda, Pilato & Lisi, 2005) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus erminiae (Binda & Pilato, 1999) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus ethiopicus Stec & Kristensen, 2017
Mesobiotus furciger (Murray, 1907) [*Macrobiotus ehrenbergi* Heinis, 1921; *Macrobiotus furcatus* Murray, 1906] <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus harmsworthi harmsworthi (Murray, 1907) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a> <Redescribed by Kaczmarek *et al.* 2018> [***Mesobiotus harmsworthi obscurus*** (Dastych, 1985) according to Kaczmarek *et al.* 2018]
Mesobiotus harmsworthi obscurus (Dastych, 1985) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a> {see *M. harmsworthi*}
Mesobiotus helenae Tumanov & Pilato, 2019
Mesobiotus hieronimi (Pilato & Claxton, 1988) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>

Mesobiotus hilariae Vecchi, Cesari, Bertolani, Jönsson, Rebecchi & Guidetti, 2016a
Mesobiotus insanis Mapalo, Stec, Mirano-Bascos & Michalczyk, 2017
Mesobiotus insuetus (Pilato, Sabella & Lisi, 2014) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus kovalevi (Tumanov, 2004) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus krynauwi (Dastyh & Harris, 1995) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus liviae (Ramazzotti, 1962) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus lusitanicus (Maucci & Durante Pasa, 1984) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus mauccii (Pilato, 1974) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus meridionalis (Richters, 1909) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus montanus (Murray, 1910) [*Macrobiotus morulatus* Bartoš, 1936] <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus mottai (Binda & Pilato, 1994) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus neuquensis (Rossi, Claps & Ardohain, 2009) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus nikolaevae Tumanov, 2018
Mesobiotus nuragicus (Pilato & Sperlinga, 1975) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus occultatus Kaczmarek, Zawierucha, Buda, Stec, Gawlak, Michalczyk & Roszkowska, 2018
Mesobiotus orcadensis (Murray, 1907) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus ovostriatus (Pilato & Patanè, 1998) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus patiens (Pilato, Binda, Napolitano & Moncada, 2000) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus perfidus (Pilato & Lisi, 2009) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus peterseni (Maucci, 1991) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus philippinicus Mapalo, Stec, Mirano-Bascos & Michalczyk, 2016
Mesobiotus pilatoi (Binda & Rebecchi, 1992) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus polaris (Murray, 1910) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus pseudoblocki Roszkowska, Stec, Ciobanu & Kaczmarek, 2016
Mesobiotus pseudocoronatus (Pilato, Binda & Lisi, 2006) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus pseudoliviae (Pilato & Binda, 1996) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus pseudonuragicus (Pilato, Binda & Lisi, 2004) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus pseudopatiens Kaczmarek & Roszkowska, 2016
Mesobiotus radiatus (Pilato, Binda & Catanzaro, 1991) <Transferred from *Macrobiotus* by Vecchi et al. 2016a>
Mesobiotus reinhardtii (Michalczyk & Kaczmarek, 2003) <Transferred from *Macrobiotus* by

Vecchi *et al.* 2016a>
Mesobiotus rigidus (Pilato & Lisi, 2006) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus romani Roszkowska, Stec, Gawlak & Kaczmarek, 2018
Mesobiotus siamensis (Tumanov, 2006) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus sicheli (Binda, Pilato & Lisi, 2005) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus simulans (Pilato, Binda, Napolitano & Moncada, 2000) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus skorackii Kaczmarek, Zawierucha, Buda, Stec, Gawlak, Michalczyk & Roszkowska, 2018
Mesobiotus snaresensis (Horning, Schuster & Grigarick, 1978) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus stellaris (du Bois-Reymond Marcus, 1944) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus szeptyckii (Kaczmarek & Michalczyk, 2009) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus tehuelchensis (Rossi, Claps & Ardohain, 2009) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus wuzhishanensis (Yin, L. Wang & X. Li, 2011) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>
Mesobiotus zhejiangensis (Yin, L. Wang & X. Li, 2011) <Transferred from *Macrobiotus* by Vecchi *et al.* 2016a>

Minibiotus R.O. Schuster, 1980

Minibiotus acontistus (de Barros, 1942)
Minibiotus aculeatus (Murray, 1910) [*Macrobiotus intermedius subjulietae* Horning, Schuster & Grigarick, 1978]
Minibiotus africanus Binda & Pilato, 1995
Minibiotus allani (Murray, 1913)
Minibiotus aquatilis Claxton, 1998
Minibiotus asteris Claxton, 1998
Minibiotus bisoctus (Horning, Schuster & Grigarick, 1978)
Minibiotus claxtonae Rossi, Claps & Ardohain, 2009
Minibiotus constellatus Michalczyk & Kaczmarek, 2003
Minibiotus continuus Pilato & Lisi, 2006
Minibiotus crassidens (Murray, 1907)
Minibiotus decrescens Binda & Pilato, 1995
Minibiotus diphasconides (Iharos, 1969)
Minibiotus diversus Ciobanu, Roszkowska & Kaczmarek, 2015
Minibiotus eichhorni Michalczyk & Kaczmarek, 2004
Minibiotus ethelae Claxton, 1998
Minibiotus fallax Pilato, Claxton & Binda, 1989
Minibiotus floriparus Claxton, 1998
Minibiotus formosus Zawierucha, Dziamięcki, Jakubowska, Michalczyk & Kaczmarek, 2014
Minibiotus granatai (Pardi, 1941)
Minibiotus gumersindoi Guil & Guidetti, 2005
Minibiotus harrylewisi Meyer & Hinton, 2009

Minibiotus hispidus Claxton, 1998
Minibiotus hufelandioides (Murray, 1910)
Minibiotus intermedius (Plate, 1888)
Minibiotus jonesorum Meyer, Lyons, Nelson & Hinton, 2011
Minibiotus julietae (de Barros, 1942)
Minibiotus keppelensis Claxton, 1998
Minibiotus maculartus Pilato & Claxton, 1988
Minibiotus marculsi (de Barros, 1942)
Minibiotus milleri Claxton, 1998
Minibiotus orthofasciatus Fontoura, Pilato, Lisi & Morais, 2009
Minibiotus pentannulatus Londoño, Daza, Lisi & Quiroga, 2017
Minibiotus pilatus Claxton, 1998
Minibiotus poricinatus Claxton, 1998
Minibiotus pseudostellarus Roszkowska, Stec, Ciobanu & Kaczmarek, 2016
Minibiotus pustulatus (Ramazzotti, 1959)
Minibiotus ramazzottii Binda & Pilato, 1992
Minibiotus scopulus Claxton, 1998
Minibiotus sidereus Pilato, Binda & Lisi, 2003
Minibiotus stuckenbergi (Dastych, Ryan & Watkins, 1990) <Transferred from *Macrobiotus* by Dastych & Drummond 1996>
Minibiotus subintermedius (Ramazzotti, 1962)
Minibiotus taiti Claxton, 1998
Minibiotus vinciguerrae Binda & Pilato, 1992
Minibiotus weglarskae Michalczyk, Kaczmarek & Claxton, 2005
Minibiotus weinerorum (Dastych, 1984) <Transferred from *Macrobiotus* by Miller *et al.* 1994>
Minibiotus wuzhishanensis X. Li, D. Wang & L. Wang, 2008
Minibiotus xavieri Fontoura, Pilato, Morais & Lisi, 2009

Minilentus Guidetti & Pilato, 2003

Minilentus dubius (Schuster & Toftner, 1982)

Paramacrobiotus (Amicrobiotus) Marley, Kaczmarek, Gawlak, Bartels, Nelson, Roszkowska, Stec & Degma, 2018

{The genus was split into two subgenera by Kaczmarek *et al.* 2017; The division amended by Marley *et al.* 2018}

Paramacrobiotus (Amicrobiotus) areolatus (Murray, 1907) <Transferred from *Macrobiotus* by Guidetti *et al.* 2009>

Paramacrobiotus (Amicrobiotus) centesimus (Pilato, 2000) <Transferred from *Macrobiotus* by Guidetti *et al.* 2009>

Paramacrobiotus (Amicrobiotus) crenatus (Maucci, 1991) <Transferred from *Macrobiotus* by Guidetti *et al.* 2009>

Paramacrobiotus (Amicrobiotus) csotiensis (Iharos, 1966) <Transferred from *Macrobiotus* by Guidetti *et al.* 2009> <Amended by Kaczmarek *et al.* 2017>

Paramacrobiotus (Amicrobiotus) derkai (Degma, Michalczyk & Kaczmarek, 2008) <Transferred from *Macrobiotus* by Guidetti *et al.* 2009>

Paramacrobiotus (Amicrobiotus) huziori (Michalczyk & Kaczmarek, 2006) <Transferred from *Macrobiotus* by Guidetti *et al.* 2009>

- Paramacrobilotus (Amicrobilotus) intii* Kaczmarek, Cytan, Zawierucha, Diduszko & Michalczyk, 2014
- Paramacrobilotus (Amicrobilotus) klymenki* Pilato, Kiosya, Lisi & Sabella, 2012
- Paramacrobilotus (Amicrobilotus) lachowskae* Stec, Roszkowska, Kaczmarek & Michalczyk, 2018
- Paramacrobilotus (Amicrobilotus) spinosus* Kaczmarek, Gawlak, Bartels, Nelson & Roszkowska, 2017
- Paramacrobilotus (Amicrobilotus) tonollii* (Ramazzotti, 1956) <Transferred from *Macrobilotus* by Guidetti *et al.* 2009>
- Paramacrobilotus (Amicrobilotus) walteri* (Biserov, 1997/98) <Transferred from *Macrobilotus* by Guidetti *et al.* 2009>
- Paramacrobilotus (Paramacrobilotus)* Guidetti, Schill, Bertolani, Dandekar & Wolf, 2009
<Generic diagnosis amended by Kaczmarek *et al.* 2017>
- Paramacrobilotus (Paramacrobilotus) alekseevi* (Tumanov, 2005) <Transferred from *Macrobilotus* by Guidetti *et al.* 2009>
- Paramacrobilotus (Paramacrobilotus) arduus* Guidetti, Cesari, Bertolani, Altiero & Rebecchi, 2019
- Paramacrobilotus (Paramacrobilotus) beotiae* (Durante Pasa & Maucci, 1979) {*species dubia*; Guidetti *et al.* 2009}
- Paramacrobilotus (Paramacrobilotus) celsus* Guidetti, Cesari, Bertolani, Altiero & Rebecchi, 2019
- Paramacrobilotus (Paramacrobilotus) chiergoi* (Maucci & Durante Pasa, 1980) <Transferred from *Macrobilotus* by Guidetti *et al.* 2009>
- Paramacrobilotus (Paramacrobilotus) corgatensis* (Pilato, Binda & Lisi, 2002) <Transferred from *Macrobilotus* by Guidetti *et al.* 2009>
- Paramacrobilotus (Paramacrobilotus) danielae* (Pilato, Binda, Napolitano & Moncada, 2001) <Transferred from *Macrobilotus* by Guidetti *et al.* 2009>
- Paramacrobilotus (Paramacrobilotus) danielisae* (Pilato, Binda & Lisi, 2006) <Transferred from *Macrobilotus* by Degma 2013>
- Paramacrobilotus (Paramacrobilotus) depressus* Guidetti, Cesari, Bertolani, Altiero & Rebecchi, 2019
- Paramacrobilotus (Paramacrobilotus) fairbanksi* Schill, Förster, Dandekar & Wolf, 2010 {The species have been diagnosed based on genetic data only and no morphological difference from *Paramacrobilotus richtersi* has been found} <Amended by Guidetti *et al.* 2019>
- Paramacrobilotus (Paramacrobilotus) garynahi* (Kaczmarek, Michalczyk & Diduszko, 2005) <Transferred from *Macrobilotus* by Guidetti *et al.* 2009>
- Paramacrobilotus (Paramacrobilotus) gerlachae* (Pilato, Binda & Lisi, 2004) <Transferred from *Macrobilotus* by Guidetti *et al.* 2009>
- Paramacrobilotus (Paramacrobilotus) halei* (Bartels, Pilato, Lisi & Nelson, 2009) <Transferred from *Macrobilotus* by Bartels & Nelson 2012>
- Paramacrobilotus (Paramacrobilotus) hapukuensis* (Pilato, Binda & Lisi, 2006) <Transferred from *Macrobilotus* by Degma 2013>
- Paramacrobilotus (Paramacrobilotus) kenianus* Schill, Förster, Dandekar & Wolf, 2010 {The species have been diagnosed based on genetic data only and no morphological difference from *Paramacrobilotus richtersi* has been found}

- Paramacrobotus (Paramacrobotus) lorenae* (Biserov, 1996) <Transferred from *Macrobotus* by Guidetti *et al.* 2009>
- Paramacrobotus (Paramacrobotus) magdalenae* (Michalczyk & Kaczmarek, 2006) <Transferred from *Macrobotus* by Guidetti *et al.* 2009>
- Paramacrobotus (Paramacrobotus) palaui* Schill, Förster, Dandekar & Wolf, 2010 {The species have been diagnosed based on genetic data only and no morphological difference from *Paramacrobotus richtersi* has been found}
- Paramacrobotus (Paramacrobotus) peteri* (Pilato, Claxton & Binda, 1989) <Transferred from *Macrobotus* by Guidetti *et al.* 2009>
- Paramacrobotus (Paramacrobotus) pius* Lisi, Binda & Pilato, 2016
- Paramacrobotus (Paramacrobotus) privitera* (Binda, Pilato, Moncada & Napolitano, 2001) <Transferred from *Macrobotus* by Degma 2013>
- Paramacrobotus (Paramacrobotus) richtersi* (Murray, 1911) [*Macrobotus schultzei* Cuénot, 1932 according to Marcus 1936] <Transferred from *Macrobotus* by Guidetti *et al.* 2009> <Amended by Guidetti *et al.* 2019>
- Paramacrobotus (Paramacrobotus) rioplatensis* (Claps & Rossi, 1997) {doubly attributed to the genus; Guidetti *et al.* 2009}
- Paramacrobotus (Paramacrobotus) sagoni* Daza, Caicedo, Lisi & Quiroga, 2017
- Paramacrobotus (Paramacrobotus) savai* (Binda & Pilato, 2001) <Transferred from *Macrobotus* by Guidetti *et al.* 2009>
- Paramacrobotus (Paramacrobotus) sklodowskae* (Michalczyk, Kaczmarek & Węglarska, 2006) <Transferred from *Macrobotus* by Degma 2013>
- Paramacrobotus (Paramacrobotus) spatialis* Guidetti, Cesari, Bertolani, Altiero & Rebecchi, 2019
- Paramacrobotus (Paramacrobotus) submorulatus* (Iharos, 1966) <Amended and transferred from *Macrobotus* by Kaczmarek *et al.*, 2017>
- Paramacrobotus (Paramacrobotus) vanescens* (Pilato, Binda & Catanzaro, 1991) <Transferred from *Macrobotus* by Guidetti *et al.* 2009> {Based on type material analysis, additional characters to the original description were added by Binda & Pilato 2001 and Pilato *et al.* 2001}
- Paramacrobotus (Paramacrobotus) wauensis* (Iharos, 1973) <Amended and transferred from *Macrobotus* by Kaczmarek *et al.*, 2017>
- Pseudodiphascon* Ramazzotti, 1965 *genus dubium* [in Guidetti & Pilato 2003]
- Pseudodiphascon inflexum* (Arcidiacono, 1964)
- Pseudohexapodibius* Bertolani & Biserov, 1996
- Pseudohexapodibius degenerans* (Biserov, 1990)
- Schusterius* Kaczmarek & Michalczyk, 2006
- Schusterius tridigitus* (R.O. Schuster, 1983)
- Tenuibiotus* Pilato & Lisi, 2011
- Tenuibiotus bondavallii* (Manicardi, 1989) <Transferred from *Macrobotus* by Pilato & Lisi 2011>
- Tenuibiotus bozhkae* Pilato, Kiosya, Lisi, Inshina & Biserov, 2011
- Tenuibiotus ciprianoi* (Guil, Guidetti & Machordom, 2007) <Transferred from *Macrobotus* by

Pilato & Lisi 2011>

Tenuibiotus danilovi (Tumanov, 2007) <Transferred from *Macrobiotus* by Pilato & Lisi 2011>

Tenuibiotus higginsi (Maucci, 1987) <Transferred from *Macrobiotus* by Pilato & Lisi 2011>

Tenuibiotus hyperonyx (Maucci, 1983) <Transferred from *Macrobiotus* by Pilato & Lisi 2011>

Tenuibiotus hystricogenitus (Maucci, 1978) <Transferred from *Macrobiotus* by Pilato & Lisi 2011>

Tenuibiotus kozharai (Biserov, 1999) <Transferred from *Macrobiotus* by Pilato & Lisi 2011>

Tenuibiotus mongolicus (Maucci, 1988) <Transferred from *Macrobiotus* by Pilato & Lisi 2011>

Tenuibiotus tenuiformis (Tumanov, 2007) <Transferred from *Macrobiotus* by Pilato & Lisi 2011>

Tenuibiotus tenuis (Binda & Pilato, 1972) <Transferred from *Macrobiotus* by Pilato & Lisi 2011>

Tenuibiotus voronkovi (Tumanov, 2007) <Transferred from *Macrobiotus* by Pilato & Lisi 2011>
<Amended by Zawierucha *et al.* 2016>

Tenuibiotus willardi (Pilato, 1977) <Transferred from *Macrobiotus* by Pilato & Lisi 2011>

Xerobiotus Bertolani & Biserov, 1996

Xerobiotus euxinus Pilato, Kiosya, Lisi, Inshina & Biserov, 2011

Xerobiotus pseudohufelandi (Iharos, 1966) [*Macrobiotus inermis* Binda & Pilato, 1971]

Xerobiotus xerophilus (Dastych, 1978)

Family: Murrayidae **Guidetti, Rebecchi & Bertolani, 2000**

Dactylobiotus R.O. Schuster, 1980

Dactylobiotus ambiguus (Murray, 1907)

Dactylobiotus ampullaceus (Thulin, 1911)

Dactylobiotus aquatilis Yang, 1999

Dactylobiotus caldarellai Pilato & Binda, 1994

Dactylobiotus dervizi Biserov, 1998

Dactylobiotus dispar (Murray, 1907)

Dactylobiotus grandipes (Schuster, Toftner & Grigarick, 1978) <Amended by Kaczmarek & Michalczyk 2010>

Dactylobiotus haplonyx Maucci, 1981

Dactylobiotus henanensis Yang, 2002

Dactylobiotus kansae Beasley, Miller & Shively, 2009

Dactylobiotus lombardoi Binda & Pilato, 1999

Dactylobiotus luci Kaczmarek, Michalczyk & Eggermont, 2008

Dactylobiotus macronyx (Dujardin, 1851)

Dactylobiotus octavi Guidetti, Altiero & Hansen, 2006

Dactylobiotus parthenogeneticus Bertolani, 1982

Dactylobiotus selenicus Bertolani, 1982

Dactylobiotus vulcanus Kaczmarek, Schabetsberger, Litwin & Michalczyk, 2012

Macroversum Pilato & Catanzaro, 1988

Macroversum mirum Pilato & Catanzaro, 1988

Murrayon Bertolani & Pilato, 1988

Murrayon dianeae (Kristensen, 1982)
Murrayon hastatus (Murray, 1907)
Murrayon hibernicus (Murray, 1911)
Murrayon hyperoncus Meyer, Domingue & Hinton, 2014
Murrayon nocentiniae (Ramazzotti, 1961)
Murrayon ovoglabellus (Biserov, 1988)
Murrayon pullari (Murray, 1907)
Murrayon stellatus Guidetti, 1998

Family: Richtersiidae Guidetti, Rebecchi, Bertolani, Jönsson, Kristensen & Cesari, 2016

Adorybiotus Maucci & Ramazzotti, 1981 <Transferred from *Macrobiotidae* by Guidetti *et al.* 2016>

Adorybiotus granulatus (Richters, 1903)

Diaforobiotus Guidetti, Rebecchi, Bertolani, Jönsson, Kristensen & Cesari, 2016
Diaforobiotus islandicus islandicus (Richters, 1904) [*Macrobiotus ruffoi* Maucci, 1973]
<Transferred from *Macrobiotus* by Guidetti *et al.* 2016>
Diaforobiotus islandicus nicaraguensis (Séméria, 1985) <Transferred from *Macrobiotus* by Guidetti *et al.* 2016>

Richtersius Pilato & Binda, 1989 <Transferred from *Macrobiotidae* by Guidetti *et al.* 2016>
[*Richtersia* Pilato & Binda, 1987]
Richtersius coronifer (Richters, 1903)

Incertae sedis

{the placement of the following taxa into any superfamily remains still unclear, see Marley *et al.* 2011}

Family: Beornidae Cooper, 1964

Beorn Cooper, 1964

Beorn leggi Cooper, 1964 {fossil species}

Family: Necopinatidae Ramazzotti & Maucci, 1983

Necopinatum Pilato, 1971

Necopinatum mirabile Pilato, 1971

References

- Bartels, P.J. & Nelson, D.R. (2012) An online key and field guide to the tardigrades of the Great Smoky Mountains National Park (North Carolina & Tennessee, USA, North America) with taxonomic revisions of two species. *Zootaxa*, 3249, 67–68.
- Bartels, P.J., Fontoura, P. & Nelson, D.R. (2018) Marine tardigrades of the Bahamas with the description of two new species and updated keys to the species of *Anisonyches* and *Archechiniscus*. *Zootaxa*, 4420(1), 43–70.

- Bernard, E.C. (1977) A new species of *Hexapodibius* from North America, with a redescription of *Diphascon belgicae* (Tardigrada). *Transactions of the American Microscopical Society*, 96(4), 476–482.
- Bertolani, R., Guidetti, R., Marchioro, T., Altiero, T., Rebecchi, L. & Cesari, M. (2014) Phylogeny of Eutardigrada: New molecular data and their morphological support lead to the identification of new evolutionary lineages. *Molecular Phylogenetics and Evolution*, 76, 110–126.
- Binda, M.G. & Pilato, G. (2001) *Macrobotus savai* and *Macrobotus humilis*, two new species of tardigrades from Sri Lanka. *Bollettino dell'Accademia Gioenia di Scienze Naturali*, 34 (360), 101–111.
- Buda, J., Olszanowski, Z., Wierzgoń, M. & Zawierucha, K. (2018) Tardigrades and oribatid mites in bryophytes from geothermally active lava fields (Krafla, Iceland) and the description of *Pilatobius islandicus* sp. nov. (Eutardigrada). *Polish Polar Research*, 39(3), 425–453.
- Cesari, M., Vecchi, M., Palmer, A., Bertolani, R., Pilato, G., Rebecchi, L. & Guidetti, R. (2016) What if the claws are reduced? Morphological and molecular phylogenetic relationships of the genus *Haplomacrobotus* May, 1948 (Eutardigrada, Parachela). *Zoological Journal of the Linnean Society*, 178, 819–827.
- Chang, C.Y., Kaczmarek, Ł., Lee, J.M. & Michalczyk, Ł. (2007) *Pseudobiotus spinifer*, a new tardigrade species (Eutardigrada: Hypsibiidae) from Nakdong River, South Korea, with a redescription of *P. vladimiri* Biserov, Dudichev & Biserova. *Zoological Science*, 24, 623–629.
- Christenberry, D. & Mason W.H. (1979) Redescription of *Echiniscus virginicus* Riggin (Tardigrada) with notes on life history, range, and geographic variation. *Journal of the Alabama Academy of Science*, 50, 47–61.
- Claxton, S.K., Beasley, C.W., Kaczmarek, L. & Michalczyk, L. (2010) Redescription of *Doryphoribius zyxiglobus* (Horning, Schuster & grigarick 1978) (Eutardigrada: Hypsibiidae) and extension of its geographic range. *New Zealand Journal of Zoology*, 37, 243–253.
- Dabert, M., Dastych, H., Hohberg, K. & Dabert, J. (2013) Phylogenetic position of the enigmatic clawless eutardigrade genus *Apodibius* Dastych, 1983 (Tardigrada), based on 18S and 28S rRNA sequence data from its type species *A. confusus*. *Molecular Phylogenetics and Evolution*, 70, 70–75.
- Dastych, H. (2009) Notes on the African limno-terrestrial tardigrade *Ramazzottius szepteycki* (Dastych, 1980) (Tardigrada). *Entomologische Mitteilungen aus dem Zoologischen Museum Hamburg*, 15, 87–91.
- Dastych, H. (2016) Redescription and taxonomic status of the Antarctic water-bear *Isohypsibius tetradactyloides* (Richters, 1907), as concluded from the rediscovered type material (Tardigrada). *Acta Biologica Benrodis*, 18, 21–43.
- Dastych, H. (2018) Redescription and revalidation of the sub-Antarctic tardigrade *Hypsibius murrayi* (Richters, 1907) based on the rediscovered type material (Tardigrada, Panarthropoda). *Entomologie heute*, 30, 95–115.
- Dastych, H. & Drummond, A.E. (1996) Notes on limnic water-bears (Tardigrada) from the Robertskollen nunataks, Dronning Maud Land, Antarctica. *Entomologische Mitteilungen aus dem Zoologischen Museum Hamburg*, 12(154), 111–117.
- Degma, P. (2013) Notes to the species composition of the genus *Paramacrobotus* Guidetti *et al.*, 2009 (Tardigrada, Eutardigrada, Macrobotidae). *Zootaxa*, 3681(1), 96–98.
- de Zio Grimaldi, S., Gallo D'Addabbo, M., Sandulli, R. & D'Addabbo, R. (2003) Checklist of the

Italian marine Tardigrada. *Meiofauna Marina*, 12, 97–135.

- Fujimoto, S. & Hansen, J.G. (2019) Revision of *Angursa* (Arthrotardigrada: Styraconyxidae) with the description of a new species from Japan. *European Journal of Taxonomy*, 510, 1–19. <https://doi.org/10.5852/ejt.2019.510>
- Fujimoto, S. & Miyazaki, K. (2013) *Neostygarctus lovedeluxe* n. sp. from the Miyako Islands, Japan: The First Record of Neostygarctidae (Heterotardigrada: Arthrotardigrada) from the Pacific. *Zoological Science*, 30(5), 414–419.
- Fujimoto, S. & Yamasaki, H. (2017) A new genus and species of Renaudarctidae (Heterotardigrada: Arthrotardigrada) from Ryukyu Archipelago, Japan. *Marine Biology Research*, 13(3), 288–299.
- Fujimoto, S., Jørgensen, A. & Hansen, J.G. (2017) A molecular approach to arthrotardigrade phylogeny (Heterotardigrada, Tardigrada). *Zoologica Scripta*, 46, 496–505.
- Gąsiorek, P., Stec, D., Morek, W., Zawierucha, K., Kaczmarek, Ł., Lachowska-Cierlik, D. & Michalczyk, Ł. (2016) An integrative revision of *Mesocrista* Pilato, 1987 (Tardigrada: Eutardigrada: Hypsibiidae). *Journal of Natural History*, 50(45-46), 2803–2828.
- Gąsiorek, P., Zawierucha, K., Stec, D. & Michalczyk, Ł. (2017a) integrative redescription of a common Arctic water bear *Pilatobius recamieri* (Richters, 1911). *Polar Biology* DOI 10.1007/s00300-017-2137-9
- Gąsiorek, P., Stec, D., Morek, W. & Michalczyk, Ł. (2017b) An integrative redescription of *Echiniscus testudo* (Doyère, 1840), the nominal taxon for the class Heterotardigrada (Ecdysozoa: Panarthropoda: Tardigrada). *Zoologischer Anzeiger*, 270, 107–122.
- Gąsiorek, P., Stec, D., Morek, W. & Michalczyk, Ł. (2018a) An integrative redescription of *Hypsibius dujardini* (Doyère, 1840), the nominal taxon for Hypsibioidea (Tardigrada: Eutardigrada). *Zootaxa*, 4415(1), 45–75.
- Gąsiorek, P., Stec, D., Zawierucha, K., Kristensen, R.M. & Michalczyk, Ł. (2018b) Revision of *Testechiniscus* Kristensen, 1987 (Heterotardigrada: Echiniscidae) refutes the polar-temperate distribution of the genus. *Zootaxa*, 4472(2), 261–297.
- Gąsiorek, P., Suzuki, A.C., Kristensen, R.M., Lachowska-Cierlik, D. & Michalczyk, Ł. (2018c) Untangling the *Echiniscus* Gordian knot: *Stellariscus* gen. nov. (Heterotardigrada : Echiniscidae) from Far East Asia. *Invertebrate Systematics*, 32, 1234–1247.
- Gąsiorek, P., Morek, W., Stec, D., Blagden, B. & Michalczyk, Ł. (2019a) Revisiting Calohypsibiidae and Microhypsibiidae: *Fractonotus* Pilato, 1998 and its phylogenetic position within Isohypsibiidae (Eutardigrada: Parachela). *Zoosystema*, 41 (6), 71–89.
- Gąsiorek, P., Morek, W., Stec, D. & Michalczyk, Ł. (2019b) Untangling the *Echiniscus* Gordian knot: paraphyly of the “*arctomys* group” (Heterotardigrada: Echiniscidae). *Cladistics*, 1–21 <https://doi.org/10.1111/cla.12377>
- Gąsiorek, P., Stec, D., Morek, W. & Michalczyk, Ł. (2019c) Deceptive conservatism of claws: distinct phyletic lineages concealed within Isohypsibioidea (Eutardigrada) revealed by molecular and morphological evidence. *Contributions to Zoology*, 88, 78–132.
- Gomes-Júnior, E., Santos, É., da Rocha, C.M.C., Santos, P.J.P. & Fontoura, P. (2017) A new species of *Ligiartus* (Tardigrada, Arthrotardigrada) from the Brazilian continental shelf, Southwestern Atlantic Ocean. *Marine Biodiversity*. DOI 10.1007/s12526-017-0709-0
- Grimaldi de Zio, S., D’Addabbo Gallo, M. & Morone De Lucia, R.M. (1990) Revision of the genus *Halechiniscus* (Halechiniscidae, Arthrotardigrada). *Cahiers de Biologie Marine*, 31, 271–279.
- Gross, V., Miller, W.R. & Hochberg, R. (2014) A new tardigrade, *Mutaparadoxipus duodigifinis* gen. nov., sp. nov. (Heterotardigrada: Arthrotardigrada), from the Southeastern United

- States. *Zootaxa*, 3835(2), 263–272.
- Grothman, G.T., Johansson, C., Chilton, G., Kagoshima, H., Tsujimoto, M. & Suzuki, A.C. (2017) Gilbert Rahm and the status of Mesotardigrada Rahm, 1937. *Zoological Science*, 34, 5–10.
- Guidetti, R., Schill, R.O., Bertolani, R., Dandekar, T. & Wolf, M. (2009) New molecular data for tardigrade phylogeny, with the erection of *Paramacrobotus* gen. n. *Journal of Zoological Systematics and Evolutionary Research* (doi: 10.1111/j.1439-0469.2009.00526.x).
- Guidetti, R., Rebecchi, L., Bertolani, R., Jönsson, K.I., Kristensen, R.M. & Cesari, M. (2016) Morphological and molecular analyses on *Richtersi* (Eutardigrada) diversity reveal its new systematic position and lead to the establishment of a new genus and a new family within Macrobiotidea. *Zoological Journal of the Linnean Society*, 178, 834–845.
- Guidetti, R., Cesari, M., Bertolani, R., Altiero, T. & Rebecchi, L. (2019) High diversity in species, reproductive modes and distribution within the *Paramacrobotus richtersi* complex (Eutardigrada, Macrobiotidae). *Zoological Letters*, 5:1. <https://doi.org/10.1186/s40851-018-0113-z>
- Guil, N., Jørgensen, A. & Kristensen, R. (2019) An upgraded comprehensive multilocus phylogeny of the Tardigrada tree of life. *Zoologica Scripta*, 48 (1), 120–137.
- Hansen, J.G., Kristensen, R.M. (2006) The ‘hyena female’ of tardigrades and description of two new species of *Megastylarctides* (Arthrotardigrada: Stygarctidae) from Saudi Arabia. *Hydrobiologia*, 558, 81–101.
- Hansen, J.G., Kristensen, R.M. & Jørgensen, A. (2012) The armoured marine tardigrades (Arthrotardigrada, Tardigrada). *Scientia Danica*, series B Biologica 2, The Royal Danish Academy of Sciences and Letters, pp. 91.
- Jørgensen A., Faurby, S., Hansen, J.G., Møbjerg, N. & Kristensen R.M. (2010) Molecular phylogeny of Arthrotardigrada (Tardigrada). *Molecular Phylogenetics and Evolution*, 54, 1006–1015.
- Jørgensen, A., Boesgaard, T.M., Møbjerg, N. & Kristensen, R.M. (2014) The tardigrade fauna of Australian marine caves: With descriptions of nine new species of Arthrotardigrada. *Zootaxa*, 3802(4), 401–443.
- Kaczmarek, Ł. & Michalczyk, Ł. (2009) Redescription of *Hypsibius microps* Thulin, 1928 and *H. pallidus* Thulin, 1911 (Eutardigrada: Hypsibiidae) based on the type material from the Thulin collection. *Zootaxa*, 2275, 60–68.
- Kaczmarek, Ł. & Michalczyk, Ł. (2010) Redescription of *Dactylobiotus grandipes* (Schuster, Toftner & Grigarick, 1978), the type species for the genus *Dactylobiotus* (Tardigrada: Macrobiotidae). *Genus*, 21, 155–162.
- Kaczmarek, Ł. & Michalczyk, Ł. (2017) A description of *Macrobiotus horningi* sp. nov. and redescriptions of *M. maculatus* comb. nov. Iharos, 1973 and *M. rawsoni* Horning *et al.*, 1978 (Tardigrada: Eutardigrada: Macrobiotidae: *hufelandi* group). *Zootaxa*, 4363 (1), 79–100.
- Kaczmarek, Ł., Bertolani, R. & Nęczyńska-Stygar, M. (2010) *Thulinus saltursus* comb. nov.: a new systematic position for *Isohypsibius saltursus* Schuster, Toftner & Grigarick, 1978 (Eutardigrada: Hypsibiidae) and a key for the genus *Thulinus*. *Zootaxa*, 2483, 58–64.
- Kaczmarek, Ł., Bartels, P.J., Roszkowska, M. & Nelson, D.R. (2015) The zoogeography of marine Tardigrada. *Zootaxa*, 4037, 1–189.
- Kaczmarek, Ł., Gawlak, M., Bartels, P.J., Nelson, D.R. & Roszkowska, M. (2017) Revision of the genus *Paramacrobotus* Guidetti *et al.*, 2009 with the description of a new species, redescriptions and a key. *Annales Zoologici (Warszawa)*, 67(4), 627–656.

- Kaczmarek, Ł., Zawierucha, K., Buda, J., Stec, D., Gawlak, M., Michalczyk, Ł. & Roszkowska, M. (2018) An integrative redescription of the nominal taxon for the *Mesobiotus harmsworthi* group (Tardigrada: Macrobiotidae) leads to descriptions of two new *Mesobiotus* species from Arctic. *PLoS ONE* 13(10): e0204756. <https://doi.org/10.1371/journal.pone.0204756>
- Kristensen, R.M. (1984) On the biology of *Wingstrandarctus corallinus* nov. gen. et spec., with notes on the symbiotic bacteria in the subfamily Florarctinae (Arthrotardigrada). *Videnskabelige Meddelelser fra Dansk Naturhistorisk Forening*, 145, 201–218.
- Kristensen, R.M., Sørensen, M.V., Hansen, J.G., & Zeppilli, D. (2015) A new species of *Neostygarctus* (Arthrotardigrada) from the Condor Seamount in the Azores, Northeast Atlantic. *Marine Biodiversity*, 45, 453–467.
- Li, X. (2009) Revision of *Biserovus xiae* Li, Su and Yu, 2004 (Tardigrada: Macrobiotidae). *Zootaxa*, 2076, 63–68.
- Lisi, O. (2011) Remarks on *Doryphoribius flavus* (Iharos, 1966), and description of three new species (Tardigrada, Hypsibiidae). *Zootaxa*, 2834, 17–32.
- Marley, N.J., McInnes, S.J. & Sands, C.J. (2011) Phylum Tardigrada: A re-evaluation of the Parachela. *Zootaxa*, 2819, 51–64.
- Marley, N.J., Kaczmarek, Ł., Gawlak, M., Bartels, P.J., Nelson, D.R., Roszkowska, M., Stec, D. & Degma, P. (2018) A clarification for the subgenera of *Paramacrobiotus* Guidetti, Schill, Bertolani, Dandekar and Wolf, 2009, with respect to the International Code of Zoological Nomenclature. *Zootaxa*, 4407(1), 130–134.
- Meyer, H.A. (2016) Re-description of *Echiniscus cavagnaroi* Schuster & Grigarick, 1966 (Tardigrada: Heterotardigrada: Echiniscoidea: Echiniscidae) from type material, with new records from Hawaii and Bermuda. *Zootaxa*, 4121(5), 575–582.
- Michalczyk, Ł., Welnicz, W., Frohme M. & Kaczmarek, Ł. (2012) Redescriptions of three *Milnesium* Doyère, 1840 taxa (Tardigrada: Eutardigrada: Milnesiidae), including the nominal species for the genus. *Zootaxa* 3154, 1–20.
- Miller, W.R. & Mehlen, R.H. (2007) Tardigrades of North America: re-description of *Echiniscus tamus* Mehlen, 1969 (Tardigrada: Heterotardigrada: Echiniscoidea: Echiniscidae). *Proceedings of the Biological Society of Washington*, 120(2), 184–188.
- Miller, W.R., Heatwole, H., Pidgeon, R.W.J. & Gardiner, G.R. (1994) Tardigrades of the Australian Antarctic Territories: the Larsemann Hills, East Antarctica. *Transactions of the American Microscopical Society*, 113(2), 142–160.
- Miller, W.R., Schulte, R. & Johansson, C. (2012) Tardigrades of North America: further description of the genus *Multipseudechiniscus* Schulte and Miller, 2011 (Heterotardigrada: Echiniscoidea: Echiniscidae) from California. *Proceedings of the Biological Society of Washington*, 125(2), 153–164.
- Møbjerg, N., Kristensen, R.M. & Jørgensen, A. (2016) Data from new taxa infer *Isoechiniscoides* gen. nov. and increase the phylogenetic and evolutionary understanding of echiniscoidid tardigrades (Echiniscoidea: Tardigrada). *Zoological Journal of the Linnean Society*, 178, 804–818.
- Morek, W., Gąsiorek, P., Stec, D., Blagden, B. & Michalczyk, Ł. (2016) Experimental taxonomy exposes ontogenetic variability and elucidates the taxonomic value of claw configuration in *Milnesium* Doyère, 1840 (Tardigrada: Eutardigrada: Apochela). *Contributions to Zoology*, 85, 173–200.
- Morek, W., Stec, D., Gąsiorek, P., Surmacz, B. & Michalczyk, Ł. (2018) *Milnesium tardigradum* Doyère, 1840: The first integrative study of interpopulation variability in a tardigrade

species. *Journal of Zoological Systematics and Evolutionary Research*. DOI: 10.1111/jzs.12233

- Morek, W., Suzuki, A.C., Schill, R.O., Georgiev, D., Yankova, M., Marley, N.J. & Michalczyk, Ł. (2019) Redescription of *Milnesium alpigenum* Ehrenberg, 1853 (Tardigrada: Apochela) and a description of *Milnesium inceptum* sp. nov., a tardigrade laboratory model. *Zootaxa*, 4586(1), 35–64.
- Özdikmen, H. (2008) *Bertolanus* nom. nov., a replacement name for the genus *Amphibolus* Bertolani, 1981 (Tardigrada: Parachela) with type species designation. *Munis Entomology & Zoology*, 3(1), 330–332.
- Pilato, G. (2013) The taxonomic value of the structures for the insertion of the stylet muscles in the Eutardigrada, and description of a new genus. *Zootaxa*, 3721(4), 365–378.
- Pilato, G. & Lisi, O. (2006) Notes on some tardigrades from southern Mexico with description of three new species. *Zootaxa*, 1236, 53–68.
- Pilato, G. & Lisi, O. (2011) *Tenuibiotus*, a new genus of Macrobiotidae (Tardigrada). *Zootaxa*, 2761, 34–40.
- Pilato, G., Binda, M.G., Napolitano, A. & Moncada, E. (2001) Notes on South American tardigrades with the description of two new species: *Pseudechiniscus spinerectus* and *Macrobiotus danielae*. *Tropical Zoology*, 14, 223–231.
- Pilato, G., Fontoura, P. & Lisi, O. (2008a) New description of *Echiniscus viridis* Murray, 1910 and remarks on the *viridis* group. *New Zealand Journal of Zoology*, 35, 85–92.
- Pilato, G., Fontoura, P., Lisi, O. & Beasley, C. (2008b) New description of *Echiniscus scabrospinosus* Fontoura, 1982, and description of a new species of *Echiniscus* (Heterotardigrada) from China. *Zootaxa*, 1856, 41–54 and *Zootaxa*, 1931, 68.
- Pollock, L.W. (1982) A closer look at some marine Heterotardigrada. I. The morphology and taxonomy of *Orzeliscus*. Proceedings of the Third International Symposium on the Tardigrada, Johnson City, Tennessee, USA: 193–201.
- Pollock, L.W. (1983) A closer look at some marine Heterotardigrada, II: The morphology and taxonomy of *Bathyechiniscus*, with a description of *B. craticulus* n. sp. from the Caribbean. *Bulletin of Marine Science*, 33 (1), 109–117.
- Renaud-Mornant, J. (1983) Tardigrades abyssaux nouveaux de la sous-famille des Euclavarctinae n. subfam. (Arthrotardigrada, Halechiniscidae). *Bulletin du Muséum national d'histoire naturelle, Paris*, 5, 201–219.
- Renaud-Mornant, J. (1989) Espèces nouvelles de Florarctinae de l'Atlantique Nord-Est et du Pacifique Sud (Tardigrada, Arthrotardigrada). *Bulletin du Musée d'Histoire Naturelle de Paris*, 11, 571–592.
- Rho, H.S., Min, B.H. & Chang, C.Y. (1999) Taxonomic study of marine tardigrades from Korea I. Genus *Batillipes* (Heterotardigrada: Batillipedidae). *Korean Journal of Systematic Zoology*, 15, 107–118.
- Roszkowska, M., Ostrowska, M., Stec, D., Janko, K. & Kaczmarek, Ł. (2017) *Macrobiotus polypiformis* sp. nov., a new tardigrade (Macrobiotidae; *hufelandi* group) from the Ecuadorian Pacific coast, with remarks on the claw abnormalities in eutardigrades. *European Journal of Taxonomy*, 327, <https://doi.org/10.5852/ejt.2017.327>
- Stec, D., Smolak, R., Kaczmarek, Ł. & Michalczyk, Ł. (2015) An integrative description of *Macrobiotus paulinae* sp. nov. (Tardigrada: Eutardigrada: Macrobiotidae: *hufelandi* group) from Kenya. *Zootaxa*, 4052, 501–526.
- Stec, D., Morek, W., Gąsiorek, P. & Michalczyk, Ł. (2018) Unmasking hidden species diversity within the *Ramazzottius oberhaeuseri* complex, with an integrative redescription of the

- nominal species for the family Ramazzottiidae (Tardigrada: Eutardigrada: Parachela) *Systematics and Biodiversity*, 16(4), 357–376.
- Suzuki, A.C. (2016) Specimens with an artifact appearing as ‘three spines’ in *Milnesium tardigradum* var. *trispinosa* Rahm, 1931 (Tardigrada). *Zoological Science*, 33, 431–433.
- Trygvadóttir, B.V. & Kristensen, R.M. (2011) Eohypsibiidae (Eutardigrada, Tardigrada) from the Faroe Islands with the description of a new genus containing three new species. *Zootaxa*, 2886, 39–62.
- Tumanov, D.V. (2018) Notes on the taxonomic position of several species of the genus *Diphascon* (Tardigrada, Hypsibiidae). *Zootaxa*, 4399(1), 127–130.
- Vecchi, M., Cesari, M., Bertolani, R., Jönsson, K.I., Rebecchi, L. & Guidetti, R. (2016a) Integrative systematic studies on tardigrades from Antarctica identify new genera and new species within Macrobiotioidea and Echiniscoidea. *Invertebrate Systematics*, 30, 303–322.
- Vecchi, M., Cesari, M., Bertolani, R., Jönsson, K.I., Rebecchi, L. & Guidetti, R. (2016b) *Corrigendum to: Integrative systematic studies on tardigrades from Antarctica identify new genera and new species within Macrobiotioidea and Echiniscoidea. Invertebrate Systematics*, 30, 521–521.
- Vicente, F., Fontoura, P., Cesari, M., Rebecchi, L., Guidetti, R., Serrano, A. & Bertolani, R. (2013) integrative taxonomy allows the identification of synonymous species and the erection of a new genus of Echiniscidae (Tardigrada, Heterotardigrada). *Zootaxa*, 3613(6), 557–572.
- Zawierucha, K., Kolicka, M. & Kaczmarek, Ł. (2016) Re-description of the Arctic tardigrade *Tenuibiotus voronkovi* (Tumanov, 2007) (Eutardigrada; Macrobiotioidea), with the first molecular data for the genus. *Zootaxa*, 4196(4), 498–510.
- Zawierucha, K., Gąsiorek, P., Buda, J., Uetake, J., Janko, K. & Fontaneto, D. (2018a) Tardigrada and Rotifera from moss microhabitats on a disappearing Ugandan glacier, with the description of a new species of water bear. *Zootaxa*, 4392(2), 311–328.
- Zawierucha, K., Stec, D., Lachowska-Cierlik, D., Takeuchi, N., Li, Z. & Michalczyk, Ł. (2018b) High mitochondrial diversity in a new water bear species (Tardigrada: Eutardigrada) from mountain glaciers in central Asia, with the erection of a new genus *Cryoconicus*. *Annales Zoologici (Warszawa)*, 68(1), 179–201.