

Updates to the Checklist of Irish Tardigrada Species (2016–2022, 3rd Edition: 21/08/2022) <https://doi.org/10.13025/S2G4-BV67>

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Introduction

This checklist is modelled on the current Actual Checklist of Tardigrada Species (Degma & Guidetti, 2022). It is an updated version of the checklist of tardigrade records for Northern Ireland and the Republic of Ireland originally published in:

DeMilio, E., Lawton, C. & Marley, N.J. 2016. Tardigrada of Ireland: a review of records and an updated checklist of species including a new addition to the Irish fauna. *ZooKeys*, 616, 77–101. <https://doi.org/10.3897/zookeys.616.8222>.

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Changes from the last version are shown in red. In cases where there have been several changes to the same taxon only the most recent is shown. The source publications for newly added, peer-reviewed records or taxonomic repositioning are listed among the references below. New editions of this checklist will be issued regularly. Please contact us with comments, corrections or suggestions.

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Checklist of Irish Tardigrade Species

* Denotes species described from Ireland

Class Heterotardigrada Marcus, 1927

Order Arthrotardigrada Marcus, 1927

Family Batillipedidae Ramazzotti, 1962

Batillipes Richters, 1909

Batillipes mirus Richters, 1909

Batillipes phreaticus Renaud-Debyser, 1959

Batillipes tubernatis Pollock, 1971

Order Echiniscoidea Richters, 1926

Family Echiniscoididae Kristensen and Hallas, 1980

Subfamily Echiniscoidinae Kristensen & Hallas, 1980

Echiniscoides Plate, 1888

Echiniscoides sp.

Echiniscoides cf. *sigismundi* ~~cf. *sigismundi*~~ (M. Schultze, 1865) See Gąsiorek & Kristensen, 2022

Family Echiniscidae Thulin, 1928

Bryodelphax Thulin, 1928 Amended by DeMilio *et al.*, 2022b

Bryodelphax parvulus Thulin, 1928

*Bryodelphax pucapetricolus** DeMilio, Tumanov, Lawton, Kristensen & Hansen, 2022

*Bryodelphax wallacearthuri** DeMilio, Tumanov, Lawton, Kristensen & Hansen, 2022

Cornechiniscus Maucci & Ramazzotti, 1981 Amended by Gąsiorek, 2022

Cornechiniscus cornutus (Richters, 1907)

Echiniscus C.A.S. Schultze, 1840 Amended by Gąsiorek *et al.*, 2021a

*Echiniscus columinis** Murray, 1911

Echiniscus granulatus (Doyère, 1840)

*Echiniscus militaris** Murray, 1911

Echiniscus quadrispinosus quadrispinosus Richters, 1902 Redescribed by Kaczmarek *et al.* 2022a

Echiniscus testudo (Doyère, 1840)

Echiniscus trisetosus Cuénot, 1932

Hypechiniscus Thulin, 1928 See Gąsiorek *et al.* 2021b

Hypechiniscus gladiator gladiator (Murray, 1905) Amended by Gąsiorek *et al.* 2021b

Hypechiniscus exarmatus (Murray, 1907) See Gąsiorek *et al.* 2021b

Parechiniscus Cuénot, 1926

Parechiniscus cf. *chitonides*

Pseudechiniscus Thulin, 1911 With subgenera according to Gąsiorek *et al.* 2021c

Pseudechiniscus cf. *suillus* (Ehrenberg, 1853)

Pseudechiniscus sp. (undescribed)

Class Eutardigrada Richters, 1926

Order Apochela Schuster, Nelson, Grigarick, and Christenberry, 1980

Family Milnesiidae Ramazzotti, 1962

Milnesium Doyère, 1840 See Morek *et al.*, 2019; Sugiura *et al.*, 2020; Camarda *et al.*, 2022; Suzuki, 2022

Milnesium cf. *tardigradum tardigradum* Doyère, 1840 from records by various authors with Baxter (1979) specifying claw formula [2-3]-[3-2], see DeMilio *et al.*, 2016

Milnesium sp. incerta (claw formula [3-3] [3-3]) from record by Murray, 1911. see DeMilio *et al.*, 2016

Milnesium sp. incerta (claw formula [2-3] [2-3]) from record by Guil *et al.*, 2022

Order Parachela Schuster, Nelson, Grigarick, and Christenberry, 1980

Superfamily Hypsibioidea Pilato, 1969 in Marley *et al.* 2011

Family Calohypsibiidae Pilato, 1969

Calohypsibius Thulin, 1928

Calohypsibius ornatus (Richters, 1900)

Family Hypsibiidae Pilato, 1969

Subfamily Diphascaoninae Dastych, 1992

Diphascaon Plate, 1888

Diphascaon cf. *chilenense* Plate, 1888 *nomen dubium* according to Dastych, 2015

Diphascaon cf. *pingue pingue* (Marcus, 1936)

Diphascaon pingue group sp.

Subfamily Hypsibiinae Pilato, 1969

Hypsibius Ehrenberg, 1848

Hypsibius cf. *convergens* (Urbanowicz, 1925)

Hypsibius cf. *dujardini* (Doyère, 1840)

Hypsibius cf. *scabropygus* Cuénot, 1929

Subfamily Itaquascaoninae Bartoš in Rudescu, 1964

Adropion Pilato, 1987

Adropion scoticum scoticum (Murray, 1905)

Mesocrista Pilato, 1987

Mesocrista spitzbergensis (Richters, 1903)

Platicrista Pilato, 1987

Platicrista angustata (Murray, 1905)

Raribius

Raribius cf. *globuliferus* (Abe & Ito, 1994)

Subfamily Pilatobiinae Bertolani, Guidetti, Marchioro, Altiero, Rebecchi and Cesari, 2014

Notahypsibius Tumanov, 2020

Notahypsibius arcticus (Murray, 1907)

Notahypsibius pallidoides (Pilato, Kiosya, Lisi, Inshina and Biserov, 2011)

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

Pilatobius bullatus (Murray, 1905)

Pilatobius oculatus oculatus (Murray, 1906)

Family Microhypsibiidae Pilato, 1998

Microhypsibius Thulin, 1928

Microhypsibius truncatus Thulin, 1928

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

Hebesuncus Pilato, 1987

Hebesuncus conjungens (Thulin, 1911)

Superfamily Isohypsiboidea Sands, McInnes, Marley, Goodall-Copestake, Convey, and Linse, 2008

Family Doryphoribiidae

Grevenius Gąsiorek, Stec, Morek & Michalczyk, 2019

Grevenius annulatus annulatus (Murray, 1905)

Thulinius Bertolani, 2003

Thulinius augusti (Murray, 1907)

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

Dianeae Gąsiorek, Stec, Morek & Michalczyk, 2019

Dianeae papillifera bulbosa (Marcus, 1928) suppressed according to Gąsiorek *et al.*, 2019

Dianeae sattleri (Richters, 1902)

Fractonotus Pilato, 1998

Fractonotus caelatus (Marcus, 1928)

Fractonotus verrucosus (Richters, 1900)

Isohypsibius Thulin, 1928

Isohypsibius cambrensis (Morgan, 1976)

*Isohypsibius panovi** Tumanov, 2005

Isohypsibius prosostomous Thulin, 1928

Isohypsibius schaudinni (Richters, 1909) *nomen inquirendum* according to Gąsiorek *et al.*, 2019

Isohypsibius tuberculatus (Plate, 1888) *nomen dubium* according to Dastych, 2015; *nomen inquirendum* according to Gąsiorek *et al.*, 2019

Ursulinius Gąsiorek, Stec, Morek & Michalczyk, 2019

Ursulinius sp. (undescribed)

Superfamily Macrobiotioidea Thulin, 1928 in Marley *et al.* 2011

Family Macrobiotidae Thulin, 1928

Macrobiotus C.A.S. Schultze, 1834

Macrobiotus echinogenitus Richters, 1903

Macrobiotus cf. *hufelandi* C.A.S. Schultze, 1834

Macrobiotus occidentalis occidentalis Murray, 1910

Macrobiotus virgatus Murray, 1910

Mesobiotus Vecchi, Cesari, Bertolani, Jönsson, Rebecchi & Guidetti, 2016

Mesobiotus cf. *harmsworthi* (Murray, 1907)

Minibiotus R.O. Schuster, 1980

Minibiotus cf. *intermedius* (Plate, 1888) Re-described by Kaczmarek *et al.*, 2022b

Minibiotus sp. (undescribed)

Paramacrobiotus Guidetti, Schill, Bertolani, Dandekar & Wolf,

Paramacrobiotus areolatus (Murray, 1907)

*Paramacrobiotus richtersi** (Murray, 1911)

Family Murrayidae Guidetti, Rebecchi & Bertolani, 2000

Murrayon Bertolani & Pilato, 1988

Murrayon hastatus (Murray, 1907)

*Murrayon hibernicus** (Murray, 1911)

Family Richtersiusidae Guidetti, Schill, Giovannini, Massa, Goldoni, Ebel, Förschler, Rebecchi & Cesari, 2021

Crenubiotus Lisi, Londoño & Quiroga, 2020 transferred to Macrobiotidae by Stec *et al.*, 2020, Richtersiusidae according to Guidetti *et al.*, 2021

Crenubiotus crenulatus (Richters, 1904)

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