



Zootaxa 3747 (1): 001–071
www.mapress.com/zootaxa/

Copyright © 2013 Magnolia Press

Monograph

ISSN 1175-5326 (print edition)

ZOOTAXA

ISSN 1175-5334 (online edition)

<http://dx.doi.org/10.11646/zootaxa.3747.1.1>

<http://zoobank.org/urn:lsid:zoobank.org:pub:53FB532C-6A72-4D05-AC0F-07CBA0D796E9>

ZOOTAXA

3747

Terrestrial and freshwater Tardigrada of the Americas

HARRY A. MEYER

Box 92000, Department of Biology and Health Sciences, McNeese State University, Lake Charles, Louisiana 70609 USA.

E-mail: hmeyer@mcneese.edu



Magnolia Press
Auckland, New Zealand

Accepted by S. McInnes: 30 Oct. 2013; published: 16 Dec. 2013

HARRY A. MEYER

Terrestrial and freshwater Tardigrada of the Americas

(*Zootaxa* 3747)

71 pp.; 30 cm.

16 Dec. 2013

ISBN 978-1-77557-310-4 (paperback)

ISBN 978-1-77557-311-1 (Online edition)

FIRST PUBLISHED IN 2013 BY

Magnolia Press

P.O. Box 41-383

Auckland 1346

New Zealand

e-mail: zootaxa@mapress.com

<http://www.mapress.com/zootaxa/>

© 2013 Magnolia Press

All rights reserved.

No part of this publication may be reproduced, stored, transmitted or disseminated, in any form, or by any means, without prior written permission from the publisher, to whom all requests to reproduce copyright material should be directed in writing.

This authorization does not extend to any other kind of copying, by any means, in any form, and for any purpose other than private research use.

ISSN 1175-5326 (Print edition)

ISSN 1175-5334 (Online edition)

Table of contents

Abstract	3
Introduction	3
Materials and methods	3
Results	6
Discussion	7
Acknowledgments	55
References	55

Abstract

This paper provides a comprehensive list of the freshwater and terrestrial tardigrade fauna reported from the Americas (North America, South America, Central America and the West Indies), their distribution in the Americas, and the substrates from which they have been reported. Data were obtained from 316 published references. Authors' identifications were accepted at face value unless subsequently amended. Taxa were assigned to sub-national units (states, provinces, etc.). Many areas, in particular large portions of Central America and the West Indies, have no reported tardigrade fauna.

The presence of 54 genera and 380 species has been reported for the Americas; 245 species have been collected in the Nearctic ecozone and 251 in the Neotropical ecozone. Among the tardigrade species found in the Americas, 52 are currently considered cosmopolitan, while 153 species have known distributions restricted to the Americas. Based on recent taxonomic revision of the genus *Milnesium*, the vast majority of records of *M. tardigradum* in the Americas should now be reassigned to *Milnesium tardigradum sensu lato*, either because the provided description differs from *M. tardigradum sensu stricto* or because insufficient description is provided to make a determination; the remainder should be considered *Milnesium cf. tardigradum*.

Most terrestrial tardigrade sampling in the Americas has focused on cryptogams (mosses, lichens and liverworts); 90% of the species have been collected in such substrates. The proportion of species collected in other habitats is lower: 14% in leaf litter, 20% in soil, and 24% in aquatic samples (in other terrestrial substrates the proportion never exceeds 5%). Most freshwater tardigrades have been collected from aquatic vegetation and sediment. For nine species in the Americas no substrates have been reported.

Key words: Tardigrades, Americas, biogeography, Nearctic, Neotropical

Introduction

The Americas (North America, Central America, South America, and associated islands; also known as America, the Western Hemisphere or the New World) cover 8.3% of the Earth's total surface area (28.4% of its land area) and contain about 14% of the human population (about 900 million people). Biogeographically, the Americas comprise two ecozones, the Nearctic and Neotropical.

In the Americas studies of Tardigrada, a phylum of panarthropods commonly known as water bears, date back to the mid-Nineteenth Century. Bailey (1850) reported the presence of tardigrades in the southern United States of America (USA), but identified no taxa. Packard (1873) noted the presence of two different tardigrade species from aquatic vegetation in Massachusetts and Iowa, USA. Beal (1880) found a specimen, probably a macrobiotid, in aquarium sediment from somewhere in the USA. Vanhöffen (1897) and Jensen (1928) were the first to record the presence of tardigrades in Greenland, but Richters (1911a) was the first to correctly identify species there. Plate (1889) recorded the first species from South America. Richters (1908a) and Murray (1910) published the first Canadian surveys. Heinis (1911) and May (1948) published the first records of tardigrades from Neotropical and Nearctic Mexico respectively. Tardigrades were first reported from the West Indies by du Bois-Reymond Marcus (1960) and from Central America by Riggin (1963).

Few publications contain comprehensive lists of American Tardigrada. Mathews (1938) compiled a comprehensive list of North American tardigrade species and their distributions, and Marcus (1939) did the same for South America. Nelson (1982) updated Marcus (1939) for aquatic and semi-aquatic species, while McFatter *et al.* (2007) reviewed North American freshwater Tardigrada. Rossi & Claps (1991) and Claps *et al.* (2008) reviewed the tardigrades of Argentina, Assunção (1999) listed the tardigrade species of the state of São Paulo in Brazil, Boeckner *et al.* (2005) provided a list of species found in Canada, Nickel *et al.* (2001) summarized the tardigrades

only weak support for such associations. On the other hand, Mitchell *et al.* (2009) found significant evidence for both positive and negative associations between substrates and tardigrade species. On a continental scale, Meyer & Hinton (2006) noted that most cryptogam-associated North American tardigrade species for which adequate data are available have been found in both lichens and mosses, and that few widely-collected species were found only in leaf litter or soil. This pattern holds true when the scale is expanded to include all the Americas. McFatter *et al.* (2007) found that most freshwater studies of North American tardigrades had sampled aquatic vegetation and sediment; in the Americas as a whole most freshwater tardigrades have been collected from these substrates.

Guil & Cabrero-Sañudo (2007) remarked on the preponderance of tardigrade studies carried out by scientists from the Palaearctic and Nearctic ecozones; e.g. very few of the papers on tardigrades from the Afrotropical and Indomalayan ecozones are authored by workers from those areas themselves. Although North American and European tardigradologists have played an important role in studying Neotropical tardigrades, indigenous scientists in Mexico, Costa Rica, Colombia, Argentina, Bolivia and Brazil have made significant contributions of their own.

Acknowledgments

I thank the interlibrary loan staff of McNeese State University and the many colleagues who have provided me with copies of their papers. Professor Giovanni Pilato kindly loaned two paratypes of *Milnesium reticulatum* Pilato, Binda & Lisi (2004). Many excellent suggestions by Sandra McInnes and two anonymous reviewers greatly improved the manuscript.

References

- Abe, W. & Ito, M. (1994) *Itaquascon globuliferum*, a new species of Tardigrada (Eutardigrada: Hypsibiidae) from Japan. *Proceedings of the Japanese Society of Systematic Zoology*, 51, 8–11.
- Anderson, R.V. & DeHenau, A. (1980) An assessment of the meiobenthos from nine mountain lakes in western Canada. *Hydrobiologia*, 70, 257–264.
<http://dx.doi.org/10.1007/bf00016768>
- Anderson, R.V., Ingham, R.E., Trofymow, J.A. & Coleman, D.C. (1984) Soil mesofaunal distribution in relation to habitat types in a shortgrass prairie. *Pedobiologia*, 26, 257–261.
- Arcidiacono, R. (1962) Ricerche sulla fauna e sulla zoogeografia della Sicilia. XIII. Contributo alla conoscenza dei Tardigradi dei Monti Nebrodi e descrizione di una nuova specie di *Itaquascon*. *Bollettino delle Sedute dell'Accademia Gioenia di Scienze Naturali di Catania (Serie 4)*, 7, 123–124.
- Argue, C.W. (1971) Some terrestrial tardigrades from New Brunswick, Canada. *Canadian Journal of Zoology*, 49, 401–415.
<http://dx.doi.org/10.1139/z71-060>
- Argue, C.W. (1972) Tardigrades from New Brunswick, Canada. 2. *Canadian Journal of Zoology*, 50, 87–94.
<http://dx.doi.org/10.1139/z72-016>
- Argue, C.W. (1974) Tardigrades from New Brunswick, Canada. 3. *Canadian Journal of Zoology*, 52, 919–922.
<http://dx.doi.org/10.1139/z74-122>
- Assunção, C. (1999) Capítulo 9. Tardígrada. In: *Biodiversidade do Estado do São Paulo: Síntese do Conhecimento ao Final do Século XX*. Vol. 4. Fundação de Amparo à Pesquisa do Estado do São Paulo, São Paulo, Brazil, pp. 61–64.
- Bailey, J.W. (1850) Microscopic observations made in South Carolina, Georgia, and Florida. *Smithsonian Contributions to Knowledge*, 2, 1–48.
- Barrett, G.W. & Kimmel, R.G. (1972) Effects of DDT on the density and diversity of tardigrades. *Proceedings of the Iowa Academy of Science*, 78, 41–42.
- Barros, R. de. (1938) *Macrobiotus evelinae*, una nova especie de tardígrados. *Boletim Biológico (Nova Série)*, 3, 52–54.
- Barros, R. de (1939a) *Itaquascon umbellinae* gen. nov. sp. nov. (Tardigrada, Macrobiotidae). *Zoologischer Anzeiger*, 128, 106–109.
- Barros, R. de (1939b) *Pseudobiotus juanita* nova especie de tardígrado. *Boletim Biológico (Nova Série)*, 4, 367–368.
- Barros, R. de (1942a). Tardígrados do estado de São Paulo, Brasil. I. Introdução. Gêneros “*Echiniscus*” e “*Pseudechiniscus*.” *Revista Brasileira de Biologia*, 2, 257–269.
- Barros, R. de (1942b) Tardígrados do estado de São Paulo, Brasil. II. Gênero *Macrobiotus*. *Revista Brasileira de Biologia*, 2, 373–386.
- Barros, R. de (1943) Tardígrados do estado de São Paulo, Brasil. III. Gêneros *Hypsibius*, *Itaquascon*, e *Milnesium*. *Revista Brasileira de Biologia*, 3, 1–10.

- Bartels, P.J. & Nelson, D.R. (2006) A large-scale, multihabitat inventory of the Phylum Tardigrada in the Great Smoky Mountains National Park, USA: a preliminary report. *Hydrobiologia*, 558, 111–118.
<http://dx.doi.org/10.1007/s10750-005-1405-9>
- 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., Nelson, D.R. & Exline, R.P. (2011) Allometry and the removal of body size effects in the morphometric analysis of tardigrades. *Journal of Zoological Systematics and Evolutionary Research*, 49 (Supplement 1), 17–25.
<http://dx.doi.org/10.1111/j.1439-0469.2010.00593.x>
- Bartels, P.J., Nelson, D.R., Kaczmarek, Ł. & Michalczyk, Ł. (2007) *Doryphoribius smokiensis*, a new species of Eutardigrada (Hypsibiidae) from the Great Smoky Mountains National Park, TN, USA. *Zootaxa*, 1646, 59–65.
- Bartels, P.J., Nelson, D.R., Kaczmarek, Ł. & Michalczyk, Ł. (2008) Three new species and one new record of the genus *Doryphoribius* Pilato, 1969 (Tardigrada: Eutardigrada: Hypsibiidae) from the Great Smoky Mountains National Park (Tennessee, USA). *Journal of Natural History*, 42, 2295–2608.
<http://dx.doi.org/10.1080/00222930802357343>
- Bartels, P.J., Nelson, D.R., Kaczmarek, Ł. & Michalczyk, Ł. (2011) *Ramazzottius belubellus*, a new species of Tardigrada (Eutardigrada: Parachela: Hypsibiidae) from the Great Smoky Mountains National Park (North Carolina, USA). *Proceedings of the Biological Society of Washington*, 124, 23–27.
<http://dx.doi.org/10.2988/10-13.1>
- Bartels, P.J., Pilato, G., Lisi, O. & Nelson, D.R. (2009) *Macrobotus* (Eutardigrada, Macrobiotidae) from the Great Smoky Mountains National Park, Tennessee/North Carolina, USA (North America): two new species and six new records. *Zootaxa*, 2022, 45–57.
- Bartoš, E. (1935a) Neue *Echiniscus*-Arten der nördlichen Slowakei. *Zoologischer Anzeiger*, 111, 139–143.
- Bartoš, E. (1935b) Vier neue *Hypsibius*arten aus der Tschechoslowakei. *Zoologischer Anzeiger*, 110, 257–260.
- Bateman, L. & Collins, M. (2001) A preliminary account of the tardigrades of Newfoundland. *Zoologischer Anzeiger*, 240, 223–242.
<http://dx.doi.org/10.1078/0044-5231-00029>
- Baumann, H. (1960) Beitrag zur Kenntnis der Tardigraden in Nord-Amerika. *Zoologischer Anzeiger*, 165, 123–128.
- Beal, F.E.L. (1880) Tardigrades and eggs. *American Naturalist*, 14, 593–594.
- Beasley, C.W. (1968a) Tardigrades from Kansas. *Transactions of the Kansas Academy of Science*, 70, 464–470.
<http://dx.doi.org/10.2307/3627597>
- Beasley, C.W. (1968b) *The Tardigrades of Oklahoma, with Additional Records from Other States and Mexico*. Ph.D. Dissertation, University of Oklahoma, Norman, Oklahoma, USA, 135 pp.
- Beasley, C.W. (1972) Some tardigrades from Mexico. *Southwestern Naturalist*, 17, 21–29.
<http://dx.doi.org/10.2307/3669835>
- Beasley, C.W. (1978) The tardigrades of Oklahoma. *American Midland Naturalist*, 99, 128–141.
<http://dx.doi.org/10.2307/2424938>
- Beasley, C.W. (1981) Some Tardigrada from Puerto Rico. *Texas Journal of Science*, 33, 9–12.
- Beasley, C.W. (1988) Altitudinal distribution of Tardigrada of New Mexico with the description of a new species. *American Midland Naturalist*, 120, 436–440.
<http://dx.doi.org/10.2307/2426016>
- Beasley, C.W. (1990) Tardigrada from Gunnison Co., Colorado, with the description of a new species of *Diphascion*. *Southwestern Naturalist*, 35, 302–305.
<http://dx.doi.org/10.2307/3671944>
- Beasley, C.W. (2001) Photokinesis of *Macrobotus hufelandi* (Tardigrada, Eutardigrada). *Zoologischer Anzeiger*, 240, 233–236.
<http://dx.doi.org/10.1078/0044-5231-00030>
- Beasley, C.W. & Pilato, G. (1987) Two new species of *Doryphoribius* (Eutardigrada, Hypsibiidae) from North America. *Animalia*, 14, 99–105.
- Beasley, C.W., Kaczmarek, Ł. & Michalczyk, Ł. (2008) *Doryphoribius mexicanus*, a new species of Tardigrada (Eutardigrada: Hypsibiidae) from Mexico (North America). *Proceedings of the Biological Society of Washington*, 121, 34–40.
<http://dx.doi.org/10.2988/07-30.1>
- Beasley, C.W., Miller, W.R. & Shively, S. (2009) A new freshwater Tardigrada *Dactylobiotus kansae* sp. n. (Eutardigrada: Parachela: Murrayidae) from Kansas, U.S.A. *Proceedings of the Biological Society of Washington*, 124, 460–463.
<http://dx.doi.org/10.2988/09-09.1>
- Benoit, T.G., Locke, J., Marks, J.R. & Beasley, C.W. (2000) Laboratory transmission of *Xanthomonas campestris* pv. *raphani* by a tardigrade (Parachela=Macrobiotidae). *Florida Entomologist*, 83, 197–199.
<http://dx.doi.org/10.2307/3496157>
- Bernard, E.C. (1977) A new species of *Hexapodibius* from North America, with a redescription of *Diphascion belgicae* (Tardigrada). *Transactions of the American Microscopical Society*, 96, 476–482.
<http://dx.doi.org/10.2307/3225665>
- Bertolani, R. (1981) A new genus and five new species of Italian freshwater tardigrades. *Bollettino del Museo Civico di Storia Naturale di Verona*, 8, 249–254.

- Bertolani, R. & Kristensen, R.M. (1987) New records of *Eohypsibius nadjae* Kristensen, 1982, and revision of the taxonomic position of two genera of Eutardigrada (Tardigrada). In: Bertolani, R. (Ed.), *Biology of Tardigrades*. Selected Symposia and Monographs U.Z.I., 1, Mucchi Editore, Modena, Italy, pp. 359–372.
- Bertolani, R. & Rebecchi, L. (1993) A revision of the *Macrobiotus hufelandi* group (Tardigrada, Macrobiotidae) with some observations on the taxonomic characters of eutardigrades. *Zoologica Scripta*, 22, 127–152.
<http://dx.doi.org/10.1111/j.1463-6409.1993.tb00347.x>
- Bertolani, R., Marley, N.J. & Nelson, D.R. (1999) Re-description of the genus *Thulinia* (Eutardigrada: Hysibiidae) and of *Thulinia augusti* (Murray, 1907) comb. n. *Zoologischer Anzeiger*, 238, 139–145.
- Bertolani, R., Biserov, V., Rebecchi, L. & Cesari, M. (2011) Taxonomy and biogeography of tardigrades using an integrated approach: new results on species of the *Macrobiotus hufelandi* group. *Invertebrate Zoology*, 8, 23–36.
- Bertolani, R., Rebecchi, L., Giovannini, I. & Cesari, M. (2011) DNA barcoding and integrative taxonomy of *Macrobiotus hufelandi* C.A.S. Schultze 1834, the first tardigrade species to be described, and some related species. *Zootaxa*, 2997, 19–36.
- Binda, M.G. (1969) Nuovi dati di Tardigradi di Sicilia con descrizione di due nuove specie. *Bollettino delle Sedute dell'Accademia Gioenia di Scienze Naturali di Catania (Serie 4)*, 9, 623–633.
- Binda, M.G. (1971) Su alcuni Tardigradi muscicoli del Nord-Africa. *Bollettino delle Sedute dell'Accademia Gioenia di Scienze Naturali di Catania (Serie 4)*, 10, 759–765.
- Binda, M.G. (1980) Tardigradi di Lucania. *Animalia*, 7, 79–91.
- Binda, M.G. (1984) Notizie sui tardigrade dell'Africa Meridionale con descrizione di una nuova specie di *Apodibius* (Tardigrada). *Animalia*, 11, 5–15.
- Binda, M.G. (1988) Ridescrizione di *Macrobiotus echinogenitus* Richters, 1904 e sul valore di buona specie di *Macrobiotus crenulatus* Richters, 1904 (Eutardigrada). *Animalia*, 201–210.
- Binda, M.G. & Kristensen, R. M. (1986) Notes on the genus *Oreella* (Oreellidae) and the systematic position of *Carphania fluviatilis* Binda, 1978. (Carphaniidae fam. nov., Heterotardigrada). *Animalia*, 13, 9–20.
- Binda, M.G. & Pilato, G. (1969a) Ricerche sulla fauna e sulla zoogeografia della Sicilia. XLV. Ulteriore contributo alla conoscenza dei Tardigradi di Sicilia con descrizione di due nuove specie. *Bollettino delle Sedute dell'Accademia Gioenia di Scienze Naturali di Catania (Serie 4)*, 10, 205–214.
- Binda, M.G. & Pilato, G. (1969b) Tardigradi muscicoli dell'isola di Ustica (Sicilia), con descrizione di due specie nuove. *Bollettino delle Sedute dell'Accademia Gioenia di Scienze Naturali di Catania (Serie 4)*, 10, 171–180.
- Binda, M.G. & Pilato, G. (1971a) Nuova contributo alla conoscenza dei Tardigradi di Sicilia. *Bollettino delle Sedute dell'Accademia Gioenia di Scienze Naturali di Catania (Serie 4)*, 10, 869–909.
- Binda, M.G. & Pilato, G. (1971b) Nuove osservazioni sui Tardigradi delle Isole Eolie. *Bollettino delle Sedute dell'Accademia Gioenia di Scienze Naturali di Catania (Serie 4)*, 10, 766–774.
- Binda, M.G. & Pilato, G. (1972) Tardigradi muscicoli di Sicilia, Italia. (IV Nota). *Bollettino delle Sedute dell'Accademia Gioenia di Scienze Naturali di Catania (Serie 4)*, 11, 47–60.
- Binda, M.G. & Pilato, G. (1990) Tardigradi di Terra del Fuoco e Magellanes. I. *Milnesium brachyungue*, nuova specie di tardigrado Milnesiidae. *Animalia*, 17, 105–110.
- Binda, M.G. & Pilato, G. (1992) *Minibiotus furcatus*, nuova posizione sistematica per *Macrobiotus furcatus* Ehrenberg, 1859, e descrizione di due nuove specie (Tardigrada). *Animalia*, 19, 111–120.
- Binda, M.G. & Pilato, G. (1994) *Echiniscus peruvianus*, nuova specie di eterotardigrado del Sudamerica. *Animalia*, 21, 93–96.
- Binda, M.G. & Pilato, G. (1999a) *Dactylobiotus lombardoi* sp. n. (Eutardigrada: Macrobiotidae) from Tierra del Fuego, with a key to the *Dactylobiotus* species. *Zoologischer Anzeiger*, 238, 147–155.
- Binda, M.G. & Pilato, G. (1999b) *Macrobiotus erminiae*, new species of eutardigrade from southern Patagonia and Tierra del Fuego. *Entomologische Mitteilungen aus dem Zoologischen Museum Hamburg*, 13, 151–158.
- Binda, M.G. & Rebecchi, L. (1992) Precisazioni su *Macrobiotus furciger* Murray, 1907, e descrizione di *Macrobiotus pilatoi* n. sp. (Eutardigrada, Macrobiotidae). *Animalia*, 19, 101–109.
- Binda, M.G., Pilato, G. & Dastych, H. (1980) Descrizione di una nuova specie di Eutardigrado: *Doryphoribius macrodon*. *Animalia*, 7, 23–27.
- Binda, M.G., Pilato, G. & Dastych, H. (1984) *Diphascon modestum*, nuova specie di Eutardigrado dei Monti Tatra. *Animalia*, 11, 45–48.
- Biserov, V.I. (1990a) On the revision of the genus *Macrobiotus*. The subgenus *Macrobiotus* s. str.: a new systematic position of the *hufelandi* group (Tardigrada, Macrobiotidae). Communication 1. *Zoologicheskyy Zhurnal*, 69, 5–17. [in Russian with English abstract]
- Biserov, V.I. (1990b) On the revision of the genus *Macrobiotus*. The subgenus *Macrobiotus* s. str.: a new systematic position of the *hufelandi* group (Tardigrada, Macrobiotidae). Communication 2. *Zoologicheskyy Zhurnal*, 69, 38–50. [in Russian with English abstract]
- Boeckner, M. & Proctor, H.C. (2005) Water bears from the Rocky Mountains: a first look at Alberta's tardigrade fauna. *Canadian Field-Naturalist*, 119, 586–588.
- Boeckner, M., Collins, M., Finney-Crawley, J. & Bateman, L. (2006) The bryofauna of remote coastal Labrador: including a review of current Canadian records. *Zootaxa*, 1105, 1–16.

- Boudrye, M.R. (1967) Notes on the Tardigrada of Minnesota. *Proceedings of the Minnesota Academy of Science*, 26, 195–199.
- Boyko, C.B. (1993) Catalog of recent type specimens in the Department of Invertebrates, American Museum of Natural History. I. Micro-invertebrates (Phyla Sarcostomastigophora, Gnathostomula, Gastrotricha, Rotifera, and Tardigrada). *American Museum Novitates*, Number 3106, 44 pp.
- Carroway, S., Miller, W.R., Johansson, C. & Whiting, J. (2011) Tardigrades of North America: *Oreella chugachii*, new species (Heterotardigrada, Echiniscoide, Oreellidae) from Alaska. *Proceedings of the Biological Society of Washington*, 124, 28–39.
<http://dx.doi.org/10.2988/10-08.1>
- Caskey, D.S. (1971) *Tardigrada of Texas*. M.Sc. Thesis, Lamar State University, Beaumont, Texas, USA, 88 pp.
- Cesari, M., Giovanni, I., Bertolani, R. & Rebecchi, L. (2011) An example of problems associated with DNA barcoding in tardigrades: a novel method for obtaining voucher specimens. *Zootaxa*, 3104, 42–51.
- Christenberry, D. (1979) On the distribution of *Echiniscus kofordi* and *E. cavagnaroi* (Tardigrada). *Transactions of the American Microscopical Society*, 98, 469–471.
<http://dx.doi.org/10.2307/3225734>
- Christenberry, D. & Higgins, R.P. (1979) A new species of *Pseudodiphascos* (Tardigrada) from Alabama. *Transactions of the American Microscopical Society*, 98, 508–514.
<http://dx.doi.org/10.2307/3225900>
- Christenberry, D. & Mason, W.H. (1979) Redescription of *Echiniscus virginicus* with notes on life history, range, and geographic variation. *Journal of the Alabama Academy of Science*, 50, 47–61.
- Claps, M.C. & Rossi, G.C. (1981) Contribución al conocimiento de los tardígrados de Argentina. II. *Revista de la Sociedad Entomológica Argentina*, 40, 107–114.
- Claps, M.C. & Rossi, G.C. (1984) Contribución al conocimiento de los tardígrados de Argentina. IV. *Acta Zoologica Lilloana*, 38, 48–50.
- Claps, M.C. & Rossi, G.C. (1988) Contribución al conocimiento de los tardígrados de Argentina. VI. *Iheringia (Série Zoologia)*, 67, 3–11.
- Claps, M.C. & Rossi, G.C. (1997) Tardígrados de Uruguay, con descripción de dos nuevas especies (Echiniscidae, Macrobiotidae). *Iheringia (Série Zoologia)*, 83, 17–22.
- Claps, M.C., Rossi, G.C. & Ardohain, D.M. (2008) Tardigrada. In: Claps, L.E., Debandi, G. & Roig-Juñent, S. (Eds.), *Biodiversidad de Artrópodos Argentinos*. Vol. 2. Sociedad Entomológica Argentina, Mendoza, Argentina, pp. 63–77.
- Claxton, S.K. (1998) A revision of the genus *Minibiotus* (Tardigrada: Macrobiotidae) with descriptions of eleven new species from Australia. *Records of the Australian Museum*, 50, 125–160.
<http://dx.doi.org/10.3853/j.0067-1975.50.1998.1276>
- Collins, M. (2010) Additions au groupe des tardigrades du Québec. *Le Naturaliste canadien*, 134, 22–26.
- Collins, M. & Bateman, L. (2001) The ecological distribution of tardigrades in Newfoundland. *Zoologischer Anzeiger*, 240, 291–297.
<http://dx.doi.org/10.1078/0044-5231-00036>
- Crowe, J.H. & Higgins, R.P. (1967) The revival of *Macrobiotus areolatus* Murray (Tardigrada) from the cryptobiotic state. *Transactions of the American Microscopical Society*, 96, 286–294.
<http://dx.doi.org/10.2307/3224595>
- Crowe, J.H., Newell, I.M. & Thomson, W.W. (1979) *Echiniscus viridis* (Tardigrada): fine structure of the cuticle. *Transactions of the American Microscopical Society*, 89, 316–325.
<http://dx.doi.org/10.2307/3224393>
- Cuénot, L. (1929) Description d'un tardigrade nouveau de la faune française. *Archives d'Anatomie Microscopique*, 25, 121–125.
- Cuénot, L. (1932) Tardigrades. *Faune de France*, 32, 1–96.
- Cunha, A.X. da & Nascimento Ribeiro, F do. (1962) A fauna de tardígrados da Ilha da Madeira. *Memórias e Estudos do Museu Zoológico da Universidade de Coimbra*, 279, 1–28.
- Cunha, A.X. da. & Nascimento Ribeiro, F do. (1964) Tardígrados de Angola. *Garcia de Orta (Lisboa)*, 12, 397–406.
- Curtin, C.B. (1948) The tardigrade fauna of the District of Columbia. *Journal of the Washington Academy of Sciences*, 38, 251–254.
- Curtin, C.B. (1957) Studies on the tardigrades. II. Some tardigrades from Maryland. *Pennsylvania Academy of Science*, 31, 142–146.
- Daday, E. von (1905) Untersuchungen über die Süßwasser-Mikrofauna Paraguays. *Zoologica Stuttgart*, 44, 1–149.
- Dastych, H. (1972) *Isohypsiobius weglarskae* new species. A new species of Tardigrada from Poland. *Bulletin de l'Académie Polonaise des Sciences (Série des Sciences Biologiques)*, 20, 761–762.
- Dastych, H. (1982). An annotated list of Alaskan Tardigrada. *Polish Polar Research*, 3, 95–102.
- Dastych, H. (1983) Two new Eutardigrada species from West Spitsbergen and the Tatra Mountains. *Bulletin de la Société des Amis des Sciences et des Lettres du Poznań (Série D, Sciences Biologiques)*, 23, 195–200.
- Dastych, H. (1984) The Tardigrada of Antarctic with descriptions of several new species. *Acta Zoologica Cracoviensia*, 27, 377–436.

- Dastych, H. (1987) Two new species of Tardigrada from the Canadian Subarctic with some notes on sexual dimorphism in the family Echiniscidae. *Entomologische Mitteilungen aus dem Zoologischen Museum Hamburg*, 8, 319–333.
- Dastych, H. (1991) Redescription of *Hypsibius antarcticus* (Richters, 1904) with some notes on *Hypsibius articus* (Murray, 1907) (Tardigrada). *Mitteilungen aus dem Hamburgischen Zoologischen Museum und Institut*, 88, 141–159.
- Dastych, H. (1999) A new species of the genus *Mopsechiniscus* Du Bois-Reymond Marcus, 1944 (Tardigrada) from the Venezuelan Andes. *Acta Biologica Benrodis*, 10, 91–101.
- Dastych, H. (2000) Redescription of the Neotropical tardigrade *Mopsechiniscus granulosus* Mihelčič, 1967 (Tardigrada). *Mitteilungen aus dem Hamburgischen Zoologischen Museum und Institut*, 97, 45–57.
- Dastych, H. & Moscal, A.M. (1992) *Mopsechiniscus tasmanicus* sp. n., a new semiterrestrial tardigrade. *Entomologische Mitteilungen aus dem Zoologischen Museum Hamburg*, 10, 221–228.
- Degma, P. & Guidetti, R. (2007) Notes to the current checklist of Tardigrada. *Zootaxa*, 1579, 41–53.
- Degma, P., Bertolani, R. & Guidetti, R. (2009–2013) Actual checklist of tardigrade species. Version 23. Available from: <http://www.tardigrada.modena.unimo.it/miscellanea/Actual%20checklist%20of%20Tardigrada.pdf> (accessed 15 July 2013)
- Degma, P., Katina, S. & Sabatovičová, L. (2011) Horizontal distribution of moisture and Tardigrada in a single moss cushion. *Journal of Zoological Systematics and Evolutionary Research*, 49 (Supplement 1), 71–77. <http://dx.doi.org/10.1111/j.1439-0469.2010.00602.x>
- Degma, P., Michalczyk, Ł. & Kaczmarek, Ł. (2008) *Macrobotus derkai*, a new species of Tardigrada (Eutardigrada, Macrobiotidae, *huziori* group) from the Colombian Andes (South America). *Zootaxa*, 1731, 1–23.
- Dewel, W.C. & Dewel, R.A. (1987) Study of a moss community containing *Milnesium tardigradum* parasitized by a chytridiomycetous fungus. In: Bertolani, R. (Ed.), *Biology of Tardigrades*. Selected Symposia and Monographs U.Z.I., 1, Mucchi Editore, Modena, Italy, pp. 45–56.
- Dewel, R.A., Joines, J.D. & Bond, J.J. (1985) A new chytridiomycete parasitizing the tardigrade *Milnesium tardigradum*. *Canadian Journal of Botany*, 63, 1525–1534. <http://dx.doi.org/10.1139/b85-211>
- Doyère, M. (1840) Mémoire sur les tardigrades. *Annales des Sciences Naturelles (Seconde Série, Tome Quatorzième – Zoologie)*, 14, 269–362.
- du Bois-Reymond Marcus, E. (1944) Sobre tardígrados brasileiros. *Comunicaciones zoológicas del Museo de Historia Natural de Montivideo*, 1, 1–19.
- du Bois-Reymond Marcus, E. (1960) Tardigrades from Curaçao, Bonaire and Los Testigos. *Studies on the Fauna of Curaçao and other Caribbean Islands*, 10, 52–57.
- Dujardin, F. (1851) Observations zoologiques. II. Sur les Tardigrades et sur une espèce à longs pieds dans l'eau de mer. *Annales des Sciences Naturelles (Troisième Série, Zoologie)*, 15, 161–166.
- Durante, M.V. & Maucci, W. (1972) Descrizione di *Hypsibius (Isohypsibius) basalovoi* spec. nov. e altre notizie su tardigradi del Veronese. *Memorie del Museo Civico di Storia Naturale di Verona*, 20, 275–281.
- Durante Pasa, M.V. & Maucci, W. (1975) Descrizione di tre nuove specie di Tardigradi della Scandinavia. *Atti della Società italiana di Scienze naturali e del Museo Civico di Storia naturale in Milano*, 116, 244–250.
- Durante Pasa, M.V. & Maucci, W. (1979) Moss tardigrades from the Scandinavian Peninsula. *Zeszyty Naukowe Uniwersytetu Jagiellońskiego*, 79, 47–85.
- Ehrenberg, C.G. (1853) Diagnoses novarum formarum. *Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin*, 8, 526–533.
- Ehrenberg, C.G. (1859) Beitrag zur Bestimmen des stationären mikroskopischen Lebens in bis 20,000 Fuss Alphenhöhe. *Abhandlungen der Könighlichen Akademie der Wissenschaften in Berlin*, 1858, 429–456.
- Evans, W.A. (1982) Abundances of micrometazoans in three sandy beaches in the island area of western Lake Eerie. *Ohio Journal of Science*, 82, 246–251.
- Faurby, S., Jönsson, K.I., Rebecchi, L. & Funch, P. (2008) Variation in anhydrobiotic survival of two eutardigrade morphospecies: a story of cryptic species and their dispersal. *Journal of Zoology*, 275, 139–145. <http://dx.doi.org/10.1111/j.1469-7998.2008.00420.x>
- Fleeger, J.W. & Hummon, W.D. (1975) Distribution and abundance of soil Tardigrada in cultivated and uncultivated plots of an old field pasture. *Memorie dell' Istituto Italiano di Idrobiologia*, Supplement 32, 92–112.
- Fox, I. (1966) On the significance of tardigrades in the digestive tract of snails. *Proceedings of the First International Congress of Parasitology*, 2, 1064.
- Fox, I. & García-Moll, I. (1963) *Echiniscus molluscorum*, new tardigrade from the feces of the land snail, *Bulimulus exilis* (Gmenin) in Puerto Rico (Tardigrada: Scutechiniscidae). *Journal of Parasitology*, 48, 177–181.
- Garitano-Zavala, B.A. (1995) Primer reporte de las especies de tardígrados muscícolas (Phylum Tardigradum) presentes en la vertiente occidental de la Cordillera Real de los Andes (La Paz – Bolivia). *Ecología de Bolivia*, 24, 1–39.
- Garitano-Zavala, B.A. (1996) Efecto de la humedad microambiental y la altura, sobre la distribución de la Tardigradifauna Muscícola (Phylum Tardigrada) en la vertiente occidental de la Cordillera Real de los Andes (La Paz, Bolivia). *Ecología en Bolivia*, 26, 1–48.
- Greven, H. (1972) Tardigraden des Nördlichen Sauerlandes. *Zoologischer Anzeiger*, 189, 368–381.
- Grigarick, A.A., Mihelčič, F. & Schuster, R.O. (1964) New Tardigrada from western North America: I, *Pseudechiniscus*. *Proceedings of the Biological Society of Washington*, 77, 5–8.

- Grigarick, A.A., Schuster, R.O. & Nelson, D.R. (1983) Heterotardigrada of Venezuela (Tardigrada). *Pan-Pacific Entomologist*, 59, 64–77.
- Grigarick, A.A., Schuster, R.O. & Toftner, E.C. (1973) *Macrobiotus montanus* from California (Tardigrada: Macrobiotidae). *Pan-Pacific Entomologist*, 49, 229–231.
- Grøngaard, A., Møbjerg Kristensen, N. & Petersen, M.K. (1992) Tardigradfaunaen på Disko. In: Andersen, P.F., Düwel, L. & Hansen, O.S. (Eds.), *Feltkursus i Arktisk Biologi, Godhavn 1990*. Zoologisk Museum, Københavns Universitet, Denmark, pp 1–130.
- Grøngaard, A., Pugh, P.G.A. & McInnes, S. (1999) Tardigrades, and other cryoconite biota, on the Greenland ice sheet. *Zoologischer Anzeiger*, 238, 211–214.
- Grothman, G.T. (2011) Tardigrades of Fish Creek Provincial Park, Alberta, Canada: A preliminary survey. *Canadian Field-Naturalist*, 125, 22–26.
- Guidetti, R. (1998) Two new species of Macrobiotidae (Tardigrada: Eutardigrada) from the United States of America, and some taxonomic considerations of the genus *Murrayon*. *Proceedings of the Biological Society of Washington*, 111, 663–673.
- Guidetti, R. & Bertolani, R. (2005) Tardigrade taxonomy: An updated checklist of the taxa and a list of characters for their identification. *Zootaxa*, 845, 1–46.
- Guidetti, R. & Pilato, G. (2003) Revision of the genus *Pseudodiphasco* (Tardigrada, Macrobiotidae), with the erection of three new genera. *Journal of Natural History*, 37, 1679–1690.
<http://dx.doi.org/10.1080/00222930210126659>
- Guidetti, R., Altiero, T. & Hansen, J.G. (2006) A new species of freshwater tardigrades from Disko Island (Greenland) increases an unresolved paradox in tardigrade systematics. *Hydrobiologia*, 558, 69–79.
<http://dx.doi.org/10.1007/s10750-005-1408-6>
- Guidetti, R., Bertolani, R. & Nelson, D. (1999) Ecological and faunistic studies on tardigrades in leaf litter of beech forests. *Zoologischer Anzeiger*, 238, 215–223.
- Guidetti, R., Peluffo, J.R., Rocha, A.M., Cesari, M. & Moly de Peluffo, M.C. (2013) The morphological and molecular analyses of a new South American urban tardigrade offer new insights on the biological meaning of the *Macrobiotus hufelandi* group of species (Tardigrada: Macrobiotidae). *Journal of Natural History*, 47 (37–37), 2409–2426.
<http://dx.doi.org/10.1080/00222933.2013.800610>
- Guil, N. & Cabrero-Sañudo, F.J. (2007) Analysis of the species description process for a little-known invertebrate group: the limnoterrestrial tardigrades (Bilateria, Tardigrada). *Biodiversity and Conservation*, 16, 1063–1086.
<http://dx.doi.org/10.1007/s10531-006-9069-y>
- Gustavson, T.C. (1963) A report on collecting, preparing and mounting tardigrades from central eastern North Dakota. *Proceedings of the North Dakota Academy of Science*, 17, 28–31.
- Hallas, T.E. (1972) Some consequences of varying egg-size in Eutardigrada. *Videnskabelige meddelelser fra Dansk naturhistorisk Forening i København*, 135, 21–31.
- Hansen, L., Johansen, K.E., Lund, T. & Simonsen, B. (1989) Homoterme kilder på Disko, Grønland. In: Jørgensen, M., Johansen, K., Lund, T. & Simonsen, B. (Eds.), *Feltkursus i Arktisk Biologi, Godhavn 1988*. Zoologisk Museum, Københavns Universitet, Denmark, pp. 143–206.
- Heger, T.J., Mitchell, E.A.D., Ledeganck, P., Vincke, S., Van de Vijver, B. & Beyens, L. (2009) The curse of biogeographical uncertainty in biogeographical studies of free-living terrestrial protists: a case study of testate amoebae from Amsterdam Island. *Journal of Biogeography*, 36, 1551–1560.
<http://dx.doi.org/10.1111/j.1365-2699.2009.02094.x>
- Heide-Jørgensen, H.S. & Kristensen, R.M. (1999) Pusillasooq, the warmest homothermal spring of Disko Island. *Berichte zur Polarforschung*, 330, 32–43.
- Heinis, F. (1911) Beitrag zur Kenntnis der Zentralamerikanischen Moosfauna. *Revue Suisse de Zoologie*, 19, 253–266.
- Heinis, F. (1914) Die Moosfauna Columbiens. *Mémoires de la Société Neuchâteloise des Sciences Naturelles*, 5, 675–730.
- Heinis, F. (1928) Die Moosfauna des Krakatau. *Treubia*, 10, 231–244.
- Hendrixson, J.L. (2004) *Distribution of Tardigrade Species at the McKenzie Table Mountain Preserve, Fresno County, California, with a Description of Two New Species of Echiniscus*. M.Sc. Thesis, California State University, Fresno, California, USA, 94 pp.
- Herrera Vásquez, J. (2003) Diversidad y densidad de tardígrados (Tardigrada) de cuatro zonas de vida de Costa Rica. *Brenesia*, 59/60, 77–82.
- Herrera Vásquez, J. & Vargas Vargas, M. (2003) Tardigrades (Tardigrada) from the western part of the Central Valley, Costa Rica with some ecological annotations. *Brenesia*, 59–60, 69–76.
- Hidalgo, H. & Coombs, D. (1985) Tardigrada from Missouri. *Transactions of the Kansas Academy of Science*, 88, 121–134.
<http://dx.doi.org/10.2307/3627882>
- Higgins, R.P. (1959) Life history of *Macrobiotus islandicus* Richters with notes on other tardigrades from Colorado. *Transactions of the American Microscopical Society*, 78, 137–157.
<http://dx.doi.org/10.2307/3224022>
- Higgins, R.P. (1960) Some tardigrades from the Piedmont of North Carolina. *Journal of the Elisha Mitchell Scientific Society*, 76, 29–35.

- Hinton, J.G. & Meyer, H.A. (2007) Distribution of limnoterrestrial Tardigrada in Georgia and the Gulf Coast states of the United States with ecological remarks. *Journal of Limnology*, 66 (Supplement 1), 72–76.
<http://dx.doi.org/10.4081/jlimnol.2007.s1.72>
- Hinton, J.G. & Meyer, H.A. (2009a) Tardigrades from Fayette County, Georgia. *Georgia Journal of Science*, 62, 16–18.
- Hinton, J.G. & Meyer, H.A. (2009b) Tardigrada of Mississippi. *Proceedings of the Louisiana Academy of Sciences*, 67, 23–27.
- Hinton, J.G., Meyer, H.A. & Sweeney, A.W. (2010) Seasonal and spatial variability in the diversity and abundance of tardigrades in leaf litter from Louisiana and Florida. *Southwestern Naturalist*, 55, 539–543.
<http://dx.doi.org/10.1894/js-28.1>
- Hinton, J.G., Meyer, H.A., Soileau, B.N. & Dupuis, A.P. (2013) Tardigrada of the Caribbean island of Dominica (West Indies). *Journal of Limnology*, 72 (Supplement 1), 108–112.
<http://dx.doi.org/10.4081/jlimnol.2013.s1.e13>
- Hoffman, A. & Jiménez, M.L. (1994) Tardígrados en México. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México, Serie Zoológica*, 65, 297–301.
- Hohl, A.M., Miller, W.R. & Nelson, D.R. (2001) The distribution of tardigrades upwind and downwind of a Missouri coal-burning power plant. *Zoologischer Anzeiger*, 240, 395–401.
<http://dx.doi.org/10.1078/0044-5231-00047>
- Horning, Jr. D.S., Schuster, R.O. & Grigarick, A.A. (1978) Tardigrada of New Zealand. *New Zealand Journal of Zoology*, 5, 185–280.
<http://dx.doi.org/10.1080/03014223.1978.10428316>
- Howard, C.Y. (1980) *Tardigrades from Rattlesnake Spring, Bradley County, Tennessee*. M.Sc. Thesis, East Tennessee State University, Johnson City, Tennessee, USA, 96 pp.
- Hummon, W.D. (1987) Meiobenthos of the Mississippi headwaters. In: Bertolani, R. (Ed.), *Biology of Tardigrades*. Selected Symposia and Monographs U.Z.I., 1, Mucchi Editore, Modena, Italy, pp. 125–140.
- Hunter, M.E. (1977) *A Study of the Tardigrada from a Farm in Montgomery County, Tennessee*. M.Sc. Thesis, Austin Peay State University, Clarksville, Tennessee, USA., 62 pp.
- Iharos, A. 1940. Adatok Magyarország Tardigrada Faunájához. *A Keszthelyi Premontrei Gimnázium Évkönyve, Keszthely*, 12, 1–20.
- Iharos, I. (1963) The zoological results of Gy. Topal's collecting in South America. 3. Tardigrada. *Annales Historico-Naturales Musei Nationalis Hungarici (Pars Zoologica)*, 55, 293–299.
- Iharos, G. (1964) Neuere Beiträge zur Kenntnis der Tardigraden-Fauna Ungarns. V. *Opuscula Zoologica Budapest*, 5, 57–67.
- Iharos, I. (1966) Neue Tardigraden-arten aus Ungarn (Neuere Beiträge zur Kenntnis der Tardigraden-fauna Ungarns, VI). *Acta Zoologica Academiae Scientiarum Hungaricae*, 12, 111–122.
- Iharos, I. (1968) The scientific results of the Soil Zoological Expeditions to America. 6. Eine neue Tardigraden-Gattung von mariner Verwandtschaft aus chilenischen Altiplano. *Opuscula Zoologica Budapest*, 8, 357–361.
- Iharos, I. (1969a) Tardigraden aus Mittelwestafrika. *Opuscula Zoologica Budapest*, 9, 115–120.
- Iharos, I. (1969b) The scientific results of the Hungarian Soil Zoological Expeditions to South America. 15. Tardigraden aus den Sammlungen der ersten und zweiten Expedition. *Opuscula Zoologica Budapest*, 9, 279–289.
- Iharos, I. (1973) Angaben zur geographischen Verbreitung der Tardigraden. *Opuscula Zoologica Budapest*, 12, 73–86.
- Iharos, I. (1982) Tardigradologische Notizen. I. *Miscellanea Zoologica Hungarica*, 1, 85–90.
- Jensen, A.S. (1928) *Grønlands Fauna et Forsøg på Oversigt. Festschrift udgivet af Københavns Universitet i Anledning af Hans Majaestat Kongens Fødselsdag 26 September 1928*. Bianco Lunos Bogtrykkeri, Copenhagen, Denmark, 88 pp.
- Jerez Jaimes, J.H. (2003) *Composición de Tardígrados en el Musgo Calymperes palisotii Schwaegrichen sobre Seis Forofitos (Árboles) en la Universidad de Puerto Rico, Recinto de Mayagüez*. M.Sc. Thesis, Universidad de Puerto Rico, Mayagüez, Puerto Rico, USA, xiii + 99 pp.
- Jerez Jaimes, J.H. & Narváez Parra, E.X. (2001) Tardígrados (Animalia, Tardigrada) de la Reserva El Diviso – Santander, Colombia. *Biota Colombiana*, 2, 145–151.
- Jerez Jaimes, J.H., Narváez Parra, E.X. & Restrepo Manrique, R. (2002) Tardígrados en musgo de la Reserva El Diviso (Santander, Colombia). *Revista Colombiana de Entomología*, 28, 199–206.
- Johansson, C., Calloway, S., Miller, W.R. & Linder, E.T. (2011) Are urban and rural tardigrade (Tardigrada) communities distinct and determined by pH: a case study from Fresno County, California. *Pan-Pacific Entomologist*, 87, 86–97.
<http://dx.doi.org/10.3956/2010-27.1>
- Johansson, C., Miller, W.R., Linder, E.T., Adams, B.J. & Boreliz-Alvarado, E. (2013) Tardigrades of Alaska: distribution patterns, diversity and species richness. *Polar Research*, 32, 18793.
<http://dx.doi.org/10.3402/polar.v32i0.18793>
- Jørgensen, M. & Kristensen, R.M. (1999) Meiofauna investigations from Igloodik, N.W.T. Arctic Canada. In: Jørgensen, M. (Ed.), *Arctic Biology Course 1989 Igloodik N.W.T. CANADA*. Zoologisk Museum, University of Copenhagen, Denmark, pp. 61–80.
- Kaczmarek, Ł. (2003) New records of and key to Tardigrada from Costa Rica. *Zootaxa*, 177, 1–4.
- Kaczmarek, Ł. & Michalczyk, Ł. (2002) *Echiniscus barbarae*, a new species of tardigrade from Cuba Island (Tardigrada: Heterotardigrada: Echiniscidae, 'arctomys group'). *Zootaxa*, 53, 1–4.

- Kaczmarek, Ł. & Michalczyk, Ł. (2003) *Platicrista horribilis*, a new species of Tardigrada (Eutardigrada: Hypsibiidae) from Mongolia. *Zootaxa*, 132, 1–8.
- Kaczmarek, Ł. & Michalczyk, Ł. (2004) First record of the genus *Doryphoribius* Pilato, 1969 from Costa Rica (Central America) and description of a new species *Doryphoribius quadrituberculatus* (Tardigrada: Hypsibiidae). *Genus*, 15, 447–453.
- Kaczmarek, Ł. & Michalczyk, Ł. (2006) Redescription of *Macrobiotus tridigitus* Schuster, 1983 and the erection of a new genus of Tardigrada (Eutardigrada, Macrobiotidae). *Journal of Natural History*, 30, 1223–1229.
- Kaczmarek, Ł. & Michalczyk, Ł. (2007) A new species of Tardigrada (Eutardigrada: Milnesiidae): *Milnesium krzysztofi* from Costa Rica (Central America). *New Zealand Journal of Zoology*, 34, 297–302.
- Kaczmarek, Ł. & Michalczyk, Ł. (2009) Two new species of Macrobiotidae, *Macrobiotus szeptyckii* (harmsworthi group) and *Macrobiotus kazmierskii* (hufelandi group) from Argentina. *Acta Zoologica Cracoviensia*, 52B, 87–99.
http://dx.doi.org/10.3409/azc.52b_1-2.87-99
- Kaczmarek, Ł. & Michalczyk, Ł. (2010) The genus *Echiniscus* Schultze, 1840 (Tardigrada) in Costa Rican (Central America) rainforests with description of two new species. *Tropical Zoology*, 23, 91–106.
- Kaczmarek, Ł., Diduszko, D. & Michalczyk, Ł. (2011) New records of Mexican Tardigrada. *Revista Mexicana de Biodiversidad*, 82, 1324–1327.
- Kaczmarek, Ł., Michalczyk, Ł. & Beasley, C.W. (2004) *Milnesium katarzynae* sp. nov., a new species of eutardigrade (Milnesiidae) from China. *Zootaxa*, 743, 1–5.
- Kaczmarek, Ł., Michalczyk, Ł. & Degma, P. (2007) Description of a new tardigrade, *Macrobiotus barbarae* (Eutardigrada: Macrobiotidae) from the Dominican Republic. *Annales Zoologici (Warszawa)*, 57, 363–369.
- Kaczmarek, Ł., Michalczyk, Ł. & Guidetti, R. (2006) Description of the new species *Calcarobiotus* (C.) *longinoi* sp. nov. (Eutardigrada: Macrobiotidae) from Costa Rica (Central America) with the diagnostic key to the genus *Calcarobiotus*. *Italian Journal of Zoology*, 73, 247–253.
<http://dx.doi.org/10.1080/11250000600831642>
- Kaczmarek, Ł., Goldyn, B., Welnicz, W. & Michalczyk, Ł. (2011) Ecological factors determining Tardigrada distribution in Costa Rica. *Journal of Zoological Systematics and Evolutionary Research*, 49 (Supplement 1), 78–83.
<http://dx.doi.org/10.1111/j.1439-0469.2010.00603.x>
- Kathman, R.D. (1990a) Eutardigrada from Vancouver Island, British Columbia, Canada, including a description of *Platicrista cheleusis* n. sp. *Canadian Journal of Zoology*, 68, 1880–1895.
<http://dx.doi.org/10.1139/z90-268>
- Kathman, R.D. (1990b) *Isohypsibius woodsae*, a new species of Eutardigrada (Tardigrada) from British Columbia. *Canadian Field-Naturalist*, 104, 293–294.
- Kathman, R.D. (1990c) Some tardigrades from Colorado, with a description of a new species of *Macrobiotus* (Macrobiotidae: Eutardigrada). *Proceedings of the Biological Society of Washington*, 103, 300–303.
- Kathman, R.D. & Cross, S.F. (1991) Ecological distribution of moss-dwelling tardigrades on Vancouver Island, British Columbia, Canada. *Canadian Journal of Zoology*, 69, 122–129.
<http://dx.doi.org/10.1139/z91-018>
- Kathman, R.D. & Dastych, H. (1990) Some Echiniscidae (Tardigrada: Heterotardigrada) from Vancouver Island, British Columbia, Canada. *Canadian Journal of Zoology*, 68, 699–706.
<http://dx.doi.org/10.1139/z90-102>
- Kathman, R.D. & Nelson, D.R. (1987) Population trends in the aquatic tardigrade *Pseudobiotus augusti* (Murray). In: Bertolani, R. (Ed.), *Biology of Tardigrades*. Selected Symposia and Monographs U.Z.I., 1, Mucchi Editore, Modena, Italy, pp. 158–168.
- Kathman, R.D. & Nelson, D.R. (1989) *Pseudodiphascion arrowsmithi*, a new species of tardigrade from British Columbia, Canada (Macrobiotidae: Eutardigrada: Tardigrada). *Journal of the Entomological Society of British Columbia*, 86, 66–70.
- Kendall-Fite, K. & Nelson, D.R. (1996) Two new species of tardigrades from Short Mountain, Tennessee, USA. *Zoological Journal of the Linnean Society*, 116, 205–214.
<http://dx.doi.org/10.1111/j.1096-3642.1996.tb02344.x>
- Kimmel, R.G. (1968) *Some Tardigrades from Central Iowa*. M.A. Thesis, Drake University, Des Moines, Iowa, USA, 59 pp.
- Kimmel, R.G. & Meglitsch, P.A. (1969) Notes on Iowa tardigrades. *Proceedings of the Iowa Academy of Science*, 76, 454–462.
- Kincer, C.J. (1989) *Effect of a Habitat Disturbance on Tardigrade Populations from Brush Creek Tributary, Washington County, Tennessee*. M.Sc. Thesis, East Tennessee State University, Johnson City, Tennessee, USA, 60 pp.
- Kranz, S.L., Benoit, T.G. & C.W. Beasley (1999) Phtopathogenic bacteria associated with Tardigrada. *Zoologischer Anzeiger* 238, 259–260.
- Kristensen, R.M. (1982a) New aberrant tardigrades from homothermic springs on Disko Island, West Greenland. In: Nelson, D.R. (Ed.), *Proceedings of the Third International Symposium on Tardigrades, August 3–6, 1980, Johnson City, Tennessee, USA*. East Tennessee University Press, Johnson City, Tennessee, USA, pp. 203–220.
- Kristensen, R. (1982b) The first record of cyclomorphosis in Tardigrada based on a new genus and species from Arctic meiobenthos. *Zeitschrift für zoologische Systematik und Evolutionsforschung*, 20, 249–270.
<http://dx.doi.org/10.1111/j.1439-0469.1983.tb00552.x>

- Kristensen, R.M. (1987a) Generic revision of the Echiniscidae (Heterotardigrada), with a discussion of the origin of the family. In: Bertolani, R. (Ed.), *Biology of Tardigrades*. Selected Symposia and Monographs U.Z.I., 1, Mucchi Editore, Modena, Italy, pp. 261–335.
- Kristensen, R.M. (1987b) The “southern” flora and the “marine” faunal elements in the homeothermic springs on Disko Island, Greenland. In: Petersen, G.H. (Ed.), *Berichte über die Grönlandexkursion des Instituts für Polarökologie vom 2-25 August 1987*. Institut für Polarökologie, Kiel, pp. 202–226.
- Land, M., Musto, A., Miller, R.W., Starkey, D.E. & Miller, J.D. (2012) Tardigrades of the University of Central Arkansas Campus, Conway, AR. *Southeastern Naturalist*, 11, 469–476.
<http://dx.doi.org/10.1656/058.011.0310>
- Landreth, Jr. K. & Thomas, B. (1970) Studies of the egg laying process in Tardigrada (*Hypsibius* [*Isohypsibius*] *augusti*) in Weld County. *Journal of the Colorado-Wyoming Academy of Science*, 7, 9.
- Lee, L. & Woolever, P. (1983) Occurrence of tardigrades in Adair County, Oklahoma. *Proceedings of the Oklahoma Academy of Science*, 63, 102.
- Leatham, J.W., McNary, T.J., Dodd, J.L. & Laurenroth, W.K. (1980) Response of soil nematodes, rotifers, and tardigrades to three levels of season long sulfur dioxide exposures. *Water, Air, & Soil Pollution*, 17, 343–356.
<http://dx.doi.org/10.1007/bf00460102>
- Leatham, J.W., McNary, T.J., Dodd, J.L. & Laurenroth, W.K. (1982) Response of field populations of Tardigrada to various levels of chronic low-level sulphur dioxide exposure. In: Dindal, D.L. (Ed.), *Soil Biology as Related to Land Use Practices*. Office of Pesticides and Toxic Substances, Environmental Protection Agency, USA, pp. 382–390.
- Lehmann, R.E., Shively, S.D. & Miller, R.W. (2007) Tardigrades of North America: an historical collection from Kansas and Missouri. *Transactions of the Kansas Academy of Science*, 110, 169–178.
[http://dx.doi.org/10.1660/0022-8443\(2007\)110\[169:tonaah\]2.0.co;2](http://dx.doi.org/10.1660/0022-8443(2007)110[169:tonaah]2.0.co;2)
- Li, X.C. & Li, H. (2008) Tardigrades from Taiwan, with the description of a new species of *Doryphoribius* (Tardigrada, Hypsibiidae). *Zoological Science*, 25, 554–559.
<http://dx.doi.org/10.2108/zsj.25.554>
- Lisi, O. (2011) Remarks on *Doryphoribius flavus* (Iharos, 1966), and description of three new species (Tardigrada, Hypsibiidae). *Zootaxa*, 2834, 17–32.
- Manicardi, G.C. (1989) Two new species of soil moss eutardigrades (Tardigrada) from Canada. *Canadian Journal of Zoology*, 67, 2282–2285.
<http://dx.doi.org/10.1139/z89-321>
- Marcus, E. (1928) Spinnentiere oder Arachoides. IV. Bärtichen (Tardigrada). In: Dahl, F. (Ed.), *Die Tierreich Deutschlands und der angrenzenden Meeressteile (Jena)*. Gustav Fischer, Jena, Germany, pp 1–130.
- Marcus, E. (1929) Tardigrada. In: Bronn, H.G. (Ed.), *Klassen und Ordnung des Tierreichs, Bd. V*. Akademische Verlagsgesellschaft, Leipzig, Germany, pp. 1–608.
- Marcus, E. (1930) Beiträge zur Tardigradensystematik. *Zoologischer Jahrbücher (Abteilung für Systematik, Ökologie und Geographie der Tiere)*, 59, 363–386.
- Marcus, E. (1936) *Das Tierreich. 66. Lieferung. Arthropoda Tardigrada*. Walter de Gruyter & Co., Berlin and Leipzig, Germany, 340 pp.
- Marcus, E. (1937) Sobre a anabiose dos Tardígrados, com descrição duma nova especie. *Boletim Biológico (Nova Série)*, 3, 7–13.
- Marcus, E. (1939) The Percy Sladen Trust Expedition to Lake Titicaca. IV. Tardigrada. *Transactions of the Linnean Society of London (Series 3)*, 1, 45–49.
<http://dx.doi.org/10.1111/j.1096-3642.1939.tb00001.x>
- Marley, N.J. (2006) A new species of Tardigrada, *Platicrista ramsayi* sp. nov. from the páramo of Volcán Chiles, Ecuador. *Zootaxa*, 1166, 35–48.
- Mathews, G.B. (1938) Tardigrada from North America. *American Midland Naturalist*, 19, 619–627.
<http://dx.doi.org/10.2307/2420476>
- Maucci, W. (1952) Un nuovo *Pseudechiniscus* del Carso Triestino (Tardigrada, Scuteschiniscidae). *Atti della Società italiana di Scienze naturali e del Museo Civico di Storia naturale in Milano*, 91, 127–130.
- Maucci, W. (1954) Tardigradi nuova della fauna italiana. *Atti della Società italiana di Scienze naturali e del Museo Civico di Storia naturale in Milano*, 93, 576–585.
- Maucci, W. (1972) Tardigrada muscicoli della Turchia. *Memorie del Museo Civico di Storia Naturale di Verona*, 20, 169–221.
- Maucci, W. (1973) *Macrobiotus spallanzanii* sp. nov. and redescription of *Macrobiotus tenuis* Binda and Pilato. *Bollettino di Zoologia*, 40, 261–267.
<http://dx.doi.org/10.1080/11250007309429241>
- Maucci, W. (1974) *Hypsibius (Hypsibius) cataphractus* (Tardigrada: Macrobiotidae) und weitere Nachrichten über Tardigraden aus Österreich. *Bericht der Naturwissenschaftlich-Medizinischen Vereins in Innsbruck*, 61, 83–86.
- Maucci, W. (1978) Tardigradi muscicoli della Turchia (terzo contributo). *Bollettino del Museo Civico di Storia Naturale di Verona*, 5, 11–140.
- Maucci, W. (1979) I. *Pseudechiniscus* del gruppo *cornutus*, con descrizione di una nuova specie (Tardigrada, Echiniscidae). *Zeszyty Naukowe Uniwersytetu Jagiellońskiego (Prace Zoologiczne)*, 29, 107–124.

- Maucci, W. (1986) *Fauna d'Italia. Vol. XXIV. Tardigrada*. Edizioni Calderini, Bologna, Italy, xii + 388 pp.
- Maucci, W. (1987) A contribution to the knowledge of the North American Tardigrada, with emphasis on the fauna of Yellowstone National Park (Wyoming). In: Bertolani, R. (Ed.), *Biology of Tardigrades*. Selected Symposia and Monographs U.Z.I., 1, Mucchi Editore, Modena, Italy, pp. 187–210.
- Maucci, W. (1988) Tardigrada from Patagonia (southern South America) with description of three new species. *Revista Chilena de Zoología*, 16, 5–13.
- Maucci, W. (1988 (1991)) Tre nuove specie di eutardigradi della Groenlandia meridionale. *Bollettino del Museo Civico di Storia Naturale di Verona*, 15, 279–289.
- Maucci, W. (1996) Tardigrada of the Arctic tundra with descriptions of two new species. *Zoological Journal of the Linnean Society*, 116, 185–204.
<http://dx.doi.org/10.1111/j.1096-3642.1996.tb02343.x>
- Maucci, W. & Ramazzotti, G. (1981) *Adorybiotus* gen. nov.: nuova posizione sistematica per *Macrobiotus granulatus* Richters, 1903 e per *Macrobiotus coronifer* Richters, 1903 (Tardigrada, Macrobiotidae). *Memorie dell'Istituto Italiano di Idrobiologia*, 39, 153–159.
- May, R.M. (1948) Nouveau genre et espèce de tardigrade du Mexique: *Haplomacrobiotus hermosillensis*. *Bulletin de la Société Zoologique de France*, 73, 95–97.
- McFatter, M.M., Meyer, H.A. & Hinton, J.G. (2007) Nearctic freshwater tardigrades: a review. *Journal of Limnology*, 66 (Supplement 1), 84–89.
<http://dx.doi.org/10.4081/jlimnol.2007.s1.84>
- McGlothlin, K.L. (1990) *Long-term Stability in the Tardigrade Populations on Roan Mountain, Tennessee*. M.Sc. Thesis, East Tennessee State University, Johnson City, Tennessee, USA, 83 pp.
- McInnes, S.J. (1994) Zoogeographic distribution of freshwater/terrestrial tardigrades from current literature. *Journal of Natural History*, 28, 257–352.
<http://dx.doi.org/10.1080/00222939400770131>
- McInnes, S.J. & Pugh, P.J.A. (1998) Biogeography of limnoterrestrial Tardigrada, with particular reference to the Antarctic fauna. *Journal of Biogeography*, 25, 31–36.
<http://dx.doi.org/10.1046/j.1365-2699.1998.251176.x>
- Mehlen, R.H. (1969a) New Tardigrada from Texas. *American Midland Naturalist*, 81, 395–404.
<http://dx.doi.org/10.2307/2423979>
- Mehlen, R.H. (1969b) Tardigrada: Taxonomy and distribution in Costa Rica. *Transactions of the American Microscopical Society*, 88, 498–505.
<http://dx.doi.org/10.2307/3224244>
- Meininger, C.A. (1981) *The Influence of Urban Climate on the Tardigrade Species Inhabiting Mosses and Lichens*. M.Sc. Thesis, University of Cincinnati, Cincinnati, Ohio, USA, 109 pp.
- Meininger, C.A. & Spatt, P.D. (1988) Variation in tardigrade assemblages in dust-impacted Arctic mosses. *Arctic and Alpine Research*, 20, 23–30.
<http://dx.doi.org/10.2307/1551695>
- Meininger, C.A., Uetz, G.W. & Snider, J.W. (1985) Variation of epiphytic microcommunities (tardigrade-lichen-bryophyte assemblages) of the Cincinnati, Ohio area. *Urban Ecology*, 9, 45–61.
[http://dx.doi.org/10.1016/0304-4009\(85\)90016-6](http://dx.doi.org/10.1016/0304-4009(85)90016-6)
- Meyer, H.A. (2001) Tardigrades of Louisiana and Arkansas, United States of America. *Zoologischer Anzeiger*, 240, 471–474.
<http://dx.doi.org/10.1078/0044-5231-00056>
- Meyer, H.A. (2006a) Interspecific association and substrate specificity in tardigrades from Florida, southeastern United States. *Hydrobiologia*, 588, 129–132.
<http://dx.doi.org/10.1007/s10750-005-1411-y>
- Meyer, H.A. (2006b) Small-scale spatial distribution heterogeneity in terrestrial tardigrade populations. *Hydrobiologia*, 558, 133–139.
<http://dx.doi.org/10.1007/s10750-005-1412-x>
- Meyer, H.A. (2008) Distribution of tardigrades in Florida. *Southeastern Naturalist*, 71, 91–100.
[http://dx.doi.org/10.1656/1528-7092\(2008\)7\[91:dotif\]2.0.co;2](http://dx.doi.org/10.1656/1528-7092(2008)7[91:dotif]2.0.co;2)
- Meyer, H.A. (2009a) A contribution to the tardigrade fauna of Oklahoma. *Proceedings of the Oklahoma Academy of Sciences*, 89, 55–58.
- Meyer, H.A. (2009b) Tardigrades of the Florida Keys. *Florida Scientist*, 71, 141–146.
- Meyer, H.A. (2011a) Tardigrada of Grand Cayman, West Indies, with descriptions of two new species of eutardigrade, *Doryphoribius tessellatus* (Hypsibiidae) and *Macrobiotus caymanensis* (Macrobiotidae). *Zootaxa*, 2812, 28–40.
- Meyer, H.A. (2011b) The freshwater and terrestrial Tardigrada of northeastern North America, with new records from Maine. *Northeastern Naturalist*, 18, 534–541.
<http://dx.doi.org/10.1656/045.018.0411>
- Meyer, H.A. (2012) A new water bear, *Minibiotus julianae*, from the Caribbean island of Dominica (Tardigrada: Eutardigrada: Parachela: Macrobiotidae). *Proceedings of the Biological Society of Washington*, 125, 54–60.

- Meyer, H.A. & Domingue, M.N. (2011) *Minibiotus acadianus*, a new species of Tardigrada from southwestern Louisiana, USA (Eutardigrada: Macrobiotidae). *Western North American Naturalist*, 71, 38–43.
<http://dx.doi.org/10.3398/064.071.0106>
- Meyer, H.A. & Hinton, J.G. (2007) Limno-terrestrial Tardigrada of the Nearctic Realm. *Journal of Limnology*, 66 (Supplement 1), 97–103.
<http://dx.doi.org/10.4081/jlimnol.2007.s1.97>
- Meyer, H.A. & Hinton, J.G. (2010a) *Milnesium zsalakoe* and *Milnesium jacobi*, two new species of Tardigrada (Eutardigrada: Apochela: Milnesiidae) from the southwestern United States. *Proceedings of the Biological Society of Washington*, 123, 113–120.
<http://dx.doi.org/10.2988/09-29.1>
- Meyer, H.A. & Hinton, J.G. (2012a) New water bear records (Phylum Tardigrada) from the Pacific Northwest of North America. *Pan-Pacific Entomologist*, 88, 304–310.
<http://dx.doi.org/10.3956/2012-06.1>
- Meyer, H.A. & Hinton, J.G. (2012b) Terrestrial tardigrades (Phylum Tardigrada) of the island of Barbados in the West Indies, with the description of *Milnesium barbadosense* sp. n. (Eutardigrada: Milnesiidae). *Caribbean Journal of Science*, 46, 194–202.
- Meyer, H.A., Hinton, J.G. & Dupré, M.C. (2013) *Milnesium lagniappe*, a new species of water bear (Tardigrada, Eutardigrada, Apochela, Milnesiidae) from the southern United States. *Western North American Naturalist*, 73, 295–301.
- Meyer, H.A., Hinton, J.G. & Samletzka, C.A. (2013) Water bears in the Anthropocene: a comparison of urban and woodland tardigrade (Phylum Tardigrada) communities in southwestern Louisiana, U.S.A. *Journal of Limnology*, 72 (Supplement 1), 123–127.
<http://dx.doi.org/10.4081/jlimnol.2013.s1.e15>
- Meyer, H.A., Lyons, A.M., Nelson, D.R. & Hinton, J.G. (2011) Terrestrial Tardigrada of Michigan, northern USA, with the description of *Minibiotus jonesorum* sp. n. (Eutardigrada: Macrobiotidae). *Journal of Zoological Systematics and Evolutionary Research*, 49 (Supplement 1), 40–47.
- Michalczyk, Ł. & Kaczmarek, Ł. (2003) *Minibiotus constellatus*, a new species of Tardigrada from Peru (Eutardigrada: Macrobiotidae). *Genus*, 14, 295–305.
- Michalczyk, Ł. & Kaczmarek, Ł. (2004) *Minibiotus eichhorni*, a new species of Tardigrada (Eutardigrada: Macrobiotidae) from Peru. *Annales Zoologici (Warszawa)*, 54, 673–676.
- Michalczyk, Ł. & Kaczmarek, Ł. (2005) The first record of the genus *Calohypsibius* Thulin, 1928 (Eutardigrada: Calohypsibiidae) from Chile (South America) with a description of a new species *Calohypsibius maliki*. *New Zealand Journal of Zoology*, 32, 289–292.
<http://dx.doi.org/10.1080/03014223.2005.9518420>
- Michalczyk, Ł. & Kaczmarek, Ł. (2006a) A new species *Macrobiotus magdalenae* (Tardigrada: Eutardigrada: Macrobiotidae, *richtersi* group) from Costa Rican rain forest (Central America). *New Zealand Journal of Zoology*, 33, 189–196.
<http://dx.doi.org/10.1080/03014223.2006.9518444>
- Michalczyk, Ł. & Kaczmarek, Ł. (2006b) *Macrobiotus huziori*, a new species of Tardigrada (Eutardigrada: Macrobiotidae) from Costa Rica (Central America). *Zootaxa*, 1169, 47–59.
- Michalczyk, Ł. & Kaczmarek, Ł. (2006c) Revision of the *Echiniscus bigranulatus* group with a description of a new species *Echiniscus madonnae* (Tardigrada: Heterotardigrada: Echiniscidae) from South America. *Zootaxa*, 1154, 1–26.
- Michalczyk, Ł. & Kaczmarek, Ł. (2007) *Echiniscus ganczareki*, a new species of Tardigrada (Heterotardigrada: Echiniscidae: *bigranulatus* group) from Costa Rica. *Zootaxa*, 1471, 15–25.
- Michalczyk, Ł. & Kaczmarek, Ł. (2010) Description of *Doryphoribius dawkinsi*, a new species of Tardigrada (Eutardigrada: Hypsibiidae) from the Costa Rican highlands, with the key to the genus *Doryphoribius*. *Zootaxa*, 2393, 46–58.
- Michalczyk, Ł., Wehnicz, W., Frohme, M. & Kaczmarek, Ł. (2012a). Corrigenda of *Zootaxa*, 3153: 1–20 Redescriptions of three *Milnesium* (Doyère, 1840) taxa (Tardigrada: Eutardigrada: Milnesiidae), including the nominal species for the genus. *Zootaxa*, 3393, 66–68.
- Michalczyk, Ł., Wehnicz, W., Frohme, M. & Kaczmarek, Ł. (2012b) Redescriptions of three *Milnesium* Doyère, 1840 taxa (Tardigrada: Eutardigrada: Milnesiidae), including the nominal species for the genus. *Zootaxa*, 3154, 1–20.
- Mihelčič, F. (1951) Beitrag zur Systematik der Tardigraden. *Archivo Zoologico Italiano*, 36, 57–103.
- Mihelčič, F. (1960) Beitrage zur Kenntnis der Süßwasser-tardigraden Europas (Frankreich). *Verhandlungen der zoologisch-botanischen Gesellschaft in Wien*, 100, 88–95.
- Mihelčič, F. (1966) Tardigradi del Carso triestino e goriziano. *Bollettino della Società Adriatica di Scienze in Trieste*, 54, 11–21.
- Mihelčič, F. (1967a) Ein Beitrag zur Kenntnis der Tardigraden Argentinien. *Verhandlungen der zoologisch-botanischen Gesellschaft in Wien*, 107, 43–56.
- Mihelčič, F. (1967b) Ein Beitrag zur Kenntnis der Tardigrada der Steiermark. *Mitteilungen der Naturwissenschaftlichen Vereins fuer Steiermark*, 97, 67–76.
- Mihelčič, F. (1971) Beobachtungen an Tardigraden Osttirols (I). *Veröffentlichungen des Tiroler Landesmuseums Ferdinandeum*, 51, 110–140.

- Mihelčić, F. (1971–1972) Ein weiterer Beitrag zur Kenntnis der Tardigraden Argentiniens. *Verhandlungen der zoologisch-botanischen Gesellschaft in Wien*, 110/111, 47–52.
- Miller, W.R. (2006) Tardigrades of North America: western Montana. *Intermountain Journal of Sciences*, 12, 45–57.
- 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 Washington Academy of Sciences*, 129, 184–188.
[http://dx.doi.org/10.2988/0006-324x\(2007\)120\[184:tonaro\]2.0.co;2](http://dx.doi.org/10.2988/0006-324x(2007)120[184:tonaro]2.0.co;2)
- Miller, W.R. & Smith, S. (2012) A note on a Greenland tardigrade: *Milnesium euryostomum* Maucci, 1991 eating an amoeba. *Transaction of the Kansas Academy of Science*, 116, 26–27.
- Miller, W.R., Schulte, R. & Johansson, C. (2012) Tardigrades of North America: further description of the genus *Multipseudechiniscus* Schulte & Miller, 2011 (Heterotardigrada: Echiniscoidea: Echiniscidae) from California. *Proceedings of the Biological Society of Washington*, 125, 153–164.
<http://dx.doi.org/10.2988/11-30.1>
- Mitchell, C.R. & Romano, III, F.A. (2007) Sexual dimorphism, population dynamics and some aspects of life history of *Echiniscus maucci* (Tardigrada: Heterotardigrada). *Journal of Limnology* 66 (Supplement 1), 126–131.
<http://dx.doi.org/10.4081/jlimnol.2007.s1.126>
- Mitchell, C.R., Miller, W.R. & Davis, B. (2009) Tardigrades of North America: influence of substrate on habitat selection. *Journal of the Pennsylvania Academy of Science*, 83, 10–16.
- Moly de Peluffo, M.D. & Peluffo, J.R. (1990) Observaciones sobre el tardigrado *Dactylobiotus parthenogeneticus* Bertolani del Rio Colorado (Argentina). *V. Jornadas Pampeanas de Ciencias Naturales*, 1, 99–105.
- Moly de Peluffo, M.C., Peluffo, J.R., Rocha, A.M. & Doma, I.L. (2006) Tardigrade distribution in a medium-sized city of central Argentina. *Hydrobiologia*, 558, 141–150.
<http://dx.doi.org/10.1007/s10750-005-1413-9>
- Moore, G.M. (1939) A limnological investigation of the microscopic benthic fauna of Douglas Lake, Michigan. *Ecological Monographs*, 9, 537–582.
<http://dx.doi.org/10.2307/1943282>
- Morikawa, K. (1962) Notes on some Tardigrada from the Antarctic region. *Biological Results of the Japanese Antarctic Research Expedition*, 17, 1–7.
- Murray, J. (1905a) The Tardigrada of the Forth Valley. *Annals of Scottish Natural History*, 55, 160–164.
- Murray, J. (1905b) The Tardigrada of the Scottish Lochs. *Transactions of the Royal Society of Edinburgh (Part III)*, 41, 677–698.
<http://dx.doi.org/10.1017/s0080456800035547>
- Murray, J. (1906a) Scottish Alpine Tardigrada. *Annals of Scottish Natural History*, 57, 25–30.
- Murray, J. (1906b) Scottish Alpine Tardigrada (Second Paper). *Annals of Scottish Natural History*, 60, 214–217.
- Murray, J. (1906c) Scottish National Antarctic Expedition: Tardigrada of the South Orkneys. *Transactions of the Royal Society of Edinburgh*, 45, 323–338.
<http://dx.doi.org/10.1017/s0080456800022754>
- Murray, J. (1907a) Arctic Tardigrada, collected by Wm. S. Bruce. *Transactions of the Royal Society of Edinburgh*, 45, 669–681.
<http://dx.doi.org/10.1017/s0080456800011789>
- Murray, J. (1907b) Some Tardigrada of the Sikkim Himalaya. *Journal of the Royal Microscopical Society*, 1907 (III), 269–273.
<http://dx.doi.org/10.1111/j.1365-2818.1907.tb01654.x>
- Murray, J. (1907c) Some South African Tardigrada. *Journal of the Royal Microscopical Society (London)*, 1907 (V), 515–524.
<http://dx.doi.org/10.1111/j.1365-2818.1907.tb01665.x>
- Murray, J. (1907d) Scottish Tardigrada, collected by the Lake Survey. *Transactions of the Royal Society of Edinburgh*, 45, 641–668.
<http://dx.doi.org/10.1017/s0080456800011777>
- Murray, J. (1907e) The encystment of *Macrobotus*. *The Zoologist*, 11, 4–11.
- Murray, J. (1910) Tardigrada. *Report on Scientific Investigations of the British Antarctic Expedition 1907–1909*, 83–187.
- Murray, J. (1911) A biological survey of Clare Island in the county of Mayo, Ireland and of the adjoining district. Part 37. Artiscoidea. *Proceedings of the Royal Irish Academy*, 31 (Section 2), 1–16 + 3 plates.
- Murray, J. & Wailes, G.H. (1913) Notes on the natural history of Bolivia and Peru. *Scottish Oceanographic Laboratory Edinburgh*, 1913, 1–45.
- Nalepa, T.F. & Quigley, M.A. (1983) Abundance and biomass of the meiobenthos in nearshore Lake Michigan with comparisons to the macrobenthos. *Journal of Great Lakes Research*, 9, 530–547.
- Nalepa, T.F. & Robertson, A. (1981) Vertical distribution of the zoobenthos in southeastern Lake Michigan with evidence of seasonal variation. *Freshwater Biology*, 11, 87–96.
<http://dx.doi.org/10.1111/j.1365-2427.1981.tb01244.x>
- Neel, J.K. (1948) A limnological investigation of the psammon in Douglas Lake, Michigan, with especial reference to shoal and shoreline dynamics. *Transactions of the American Microscopical Society*, 67, 1–53.
- Nelson, D.R. (1973) *Distribution of Tardigrades on Roan Mountain, Tennessee-North Carolina*. Ph.D Dissertation, University of Tennessee, Knoxville, Tennessee, USA, 168 pp.

- Nelson, D.R. (1975) Ecological distribution of tardigrades on Roan Mountain, Tennessee-North Carolina. *Memorie dell'Istituto Italiano di Idrobiologia*, 32 Supplement, 225–276.
- Nelson, D.R. (1979) First identification and phase and SEM identification of *Echiniscus viridissimus* (Phylum Tardigrada) outside its type locality. *Journal of the Tennessee Academy of Science*, 54, 71.
- Nelson, D.R. (1982) Tardigrada. In: Hurlbert, S.H. & Villalobos-Figueroa, A. (Eds.), *Aquatic Biota of Latin America, being a Compilation of Taxonomic Bibliographies for the Fauna and Flora of Inland Waters of South America. Volume III. Aquatic Biota of Mexico, Central America, and the West Indies*. San Diego State University Press, San Diego, California, USA, pp. 154–158.
- Nelson, D.R. (1991) A new species of *Diphyscon* from New Brunswick, Canada (Tardigrada). *Canadian Journal of Zoology*, 69, 1911–1915.
<http://dx.doi.org/10.1139/z91-264>
- Nelson, D.R. & Adkins, R.G. (2001) Distribution of tardigrades within a moss cushion: Do tardigrades migrate in response to changing moisture conditions? *Zoologischer Anzeiger*, 240, 493–500.
<http://dx.doi.org/10.1078/0044-5231-00058>
- Nelson, D.R. & Bartels, P.J. (2007) “Smoky Bears” – Tardigrades of Great Smoky Mountains National Park. *Southeastern Naturalist*, Special Issue 1, 229–238.
[http://dx.doi.org/10.1656/1528-7092\(2007\)6\[229:sbogsm\]2.0.co;2](http://dx.doi.org/10.1656/1528-7092(2007)6[229:sbogsm]2.0.co;2)
- Nelson, D.R. & McGlothlin, K.L. (1993) A new species of *Hypsibius* (Phylum Tardigrada) from Roan Mountain, Tennessee, U.S.A. *Transactions of the American Microscopical Society*, 112, 140–144.
<http://dx.doi.org/10.2307/3226827>
- Nelson, D.R. & McGlothlin, K.L. (1996) A new species of *Calohypsibius* (Phylum Tardigrada, Eutardigrada) from Roan Mountain, Tennessee-North Carolina, U.S.A. *Zoological Journal of the Linnean Society*, 116, 167–174.
<http://dx.doi.org/10.1111/j.1096-3642.1996.tb02341.x>
- Nelson, D.R., Kincer, C.J. & Williams, T.C. (1987) Effects of habitat disturbances on aquatic tardigrade populations. In: Bertolani, R. (Ed.), *Biology of Tardigrades*. Selected Symposia and Monographs U.Z.I., 1, Mucchi Editore, Modena, Italy, pp. 141–153.
- Nelson, D.R., Marley, N.J. & Bertolani, R. (1999) Re-description of the genus *Pseudobiotus* (Eutardigrada, Hypsibiidae) and of the new type species *Pseudobiotus kathmanae* sp. n. *Zoologischer Anzeiger*, 238, 311–317.
- Nichols, P.B., Romano, III, F.A. & Nelson, D.R. (2001) Seasonal and altitudinal variation in the distribution and abundance of Tardigrada on Dugger Mountain, Alabama. *Zoologischer Anzeiger*, 240, 501–504.
<http://dx.doi.org/10.1078/0044-5231-00059>
- Nickel, K., Miller, W.R. & Marley, N. (2001) Tardigrades of South America: Machu Picchu and Ollantaytambo, Peru. *Zoologischer Anzeiger*, 240, 505–509.
<http://dx.doi.org/10.1078/0044-5231-00060>
- Olson, D.M., Dinerstein, E., Wikramanayake, E.D., Burgess, N.D., Powell, G.V.N., Underwood, E.C., D’Amico, J.A., Itoua, I., Strand, H.E., Morrison, J.C., Loucks, C.J., Allnutt, T.F., Ricketts, T.H., Koura, Y., Lamoreux, J.F., Wettengel, W.W., Hedao, P. & Kassem, K.R. (2001) Terrestrial ecoregions of the world: a new map of life on earth. *BioScience*, 51, 933–938.
[http://dx.doi.org/10.1641/0006-3568\(2001\)051\[0933:teotwa\]2.0.co;2](http://dx.doi.org/10.1641/0006-3568(2001)051[0933:teotwa]2.0.co;2)
- Packard, Jr. A.S. (1873) Discovery of a tardigrade. *American Naturalist*, 7, 740–741.
- Pape, T. (1986) Bjørnedyr, mider og insekter fra en humlebrede i Grønland. *Entomologiske Meddelelser*, 53, 75–81.
- Peluffo, J.R., Moly de Peluffo, M.C. & Rocha, A.M. (2002) Rediscovery of *Echiniscus rufoviridis* du Bois-Reymond Marcus, 1944 (Heterotardigrada, Echiniscidae). New contributions to the knowledge of its morphology, bioecology and distribution. *Gayana (Concepción)*, 66, 97–101.
<http://dx.doi.org/10.4067/s0717-65382002000200002>
- Peluffo, J.R., Rocha, A.M. & Moly de Peluffo, M.C. (2007) Species diversity and morphometrics of tardigrades from a medium-sized city in the Neotropical Region: Santa Rosa (La Pampa, Argentina). *Animal Biodiversity and Conservation*, 30.1, 43–51.
- Pennak, R.W. (1940) Ecology of the microscopic metazoa inhabiting the sandy beaches of some Wisconsin Lakes. *Ecological Monographs*, 10, 537–615.
<http://dx.doi.org/10.2307/1943554>
- Péterfi, F. (1956) Contribuțiuni la cunoașterea Tardigradelor din R.P.R. *Studii și Cercetări de Biologie (Accademia R.P.R., Filiola Cluj)*, 7, 149–155.
- Peters, T. & Dumjahn, P. (1999) Ecological aspects of tardigrade distribution on Disko Island, West Greenland. *Berichte zur Polarforschung*, 330, 64–75.
- Petersen, B. (1951) The tardigrade-fauna of Greenland: A faunistic study with some few ecological remarks. *Meddelelser om Grønland (København)*, 150, 1–94.
- Pilato, G. (1971a) Su una nuova specie di *Doryphoribius* (Tardigrada, Hypsibiidae) e considerazioni sulla posizione filogenetica del genere. *Bollettino di Zoologia*, 38, 145–149.
<http://dx.doi.org/10.1080/11250007109436964>
- Pilato, G. (1971b) Tardigradi delle acque dolci Siciliane. Nota prima. *Bollettino dell'Accademia Gioenia di Scienze Naturali di Catania (Serie 4)*, 11, 126–234.

- Pilato, G. (1972) Prime osservazione sui Tardigradi delle Isole Egadi. *Bollettino dell'Accademia Gioenia di Scienze Naturali di Catania (Serie 4)*, 11, 111–124.
- Pilato, G. (1973) Tardigradi delle acque dolci siciliane. Nota seconda. *Bollettino dell'Accademia Gioenia di Scienze Naturali di Catania (Serie 4)*, 12, 177–186.
- Pilato, G. (1974a) Tardigradi delle acque dolci Siciliane – Terza nota. *Animalia (Catania)*, 1, 235–244.
- Pilato, G. (1974b) Tre nuove specie di tardigradi muscicoli di Cina. *Animalia (Catania)*, 1, 59–68.
- Pilato, G. (1977) *Macrobotus willardi*, a new species of Tardigrada from Canada. *Canadian Journal of Zoology*, 55, 628–630.
<http://dx.doi.org/10.1139/z77-080>
- Pilato, G. (1990) Tardigradi del Terra del Fuoco e Magellanes. II. Descrizione di *Hypsibius marcelli* n. sp. (Hypsibiidae). *Animalia*, 17, 95–98.
- Pilato, G. (2000) *Macrobotus centesimus*, new species of eutardigrade from the South America. *Bollettino dell'Accademia Gioenia di Scienze Naturali di Catania (Serie 4)*, 33, 97–101.
- Pilato, G. (2006) Remarks on the *Macrobotus polyopus* group, with the description of two new species (Eutardigrada, Macrobiotidae). *Zootaxa*, 1298, 37–47.
- Pilato, G. (2007) *Echiniscus quitensis*, a new species of tardigrade from Ecuador (Heterotardigrada: Echiniscidae). *Zootaxa*, 1389, 55–60.
- Pilato, G. & Beasley, C.W. (1987) *Haplohexapodibius seductor*, n. gen. n. sp. (Eutardigrada Calohypsibiidae) with remarks on the systematic position of the genus. *Animalia*, 14, 65–71.
- Pilato, G. & Beasley, C.W. (2005) *Haplomacrobotus utahensis* new species of Calophysibiidae (Eutardigrada) from North America. *Zootaxa*, 879, 1–7.
- Pilato, G. & Binda, M.G. (1977) Precisioni e rettifiche alla descrizione di alcune specie di tardigradi (seconda nota). *Animalia*, 4, 35–51.
- Pilato, G. & Binda, M.G. (1994) *Dactylobiotus caldarellai*, nuova specie di eutardigradi della Terra del Fuoco. *Animalia*, 21, 87–91.
- Pilato, G. & Binda, M.G. (1996) *Mixibius fueginus*, nuova specie di eutardigrado della Tierra del Fuoco. *Bollettino dell'Accademia Gioenia di Scienze Naturali di Catania (Serie 4)*, 29, 27–32.
- Pilato, G. & Binda, M.G. (2001) Biogeography and limno-terrestrial tardigrades: are they truly incompatible binomials? *Zoologischer Anzeiger*, 240, 511–516.
<http://dx.doi.org/10.1078/0044-5231-00061>
- Pilato, G. & Binda, M.G. (2003) *Hexapodibius christenberryae*, a new species of tardigrade from North America (Eutardigrada, Calohypsibiidae). *Zootaxa*, 130, 1–6.
- Pilato, G. & D'Urso, V. (1976) Contributo alla conoscenza dei Tardigradi d'Australia. *Animalia*, 3, 135–145.
- Pilato, G. & Kaczmarek, Ł. (2007) *Macrobotus alvaroi*, a new species of eutardigrade (Tardigrada, Macrobiotidae) of the *polyopus* group from Costa Rica (Central America), *Zootaxa*, 1479, 1–7.
- Pilato, G. & Lisi, O. (2006) Notes on some tardigrades of southern Mexico with descriptions of three new species. *Zootaxa*, 1236, 53–68.
- Pilato, G. & Patanè, M. (1997) *Macrobotus ovostriatus*, a new species of eutardigrades from Tierra del Fuego. *Bollettino dell'Accademia Gioenia di Scienze Naturali di Catania (Serie 4)*, 30, 263–268.
- Pilato, G. & Pennisi, G. (1976) Prime notizie sui Tardigradi di Cirenaica. *Animalia*, 3, 243–258.
- Pilato, G. & Sperlinga, G. (1975) Tardigradi muscicoli di Sardegna. *Animalia*, 2, 79–90.
- Pilato, G., Binda, M.G. & Azzaro, M. (1990) Tardigradi di Tierra del Fuoco e Magellanes. III. *Macrobotus punctillus*, nuova specie di Macrobiotidae del gruppo *hufelandi*. *Animalia*, 17, 123–129.
- Pilato, G., Binda, M.G. & Lisi, O. (2002) Notes on tardigrades of the Seychelles with the description of two new species. *Bollettino dell'Accademia Gioenia di Scienze Naturali di Catania (Serie 4)*, 35, 503–517.
- Pilato, G., Binda, M.G. & Lisi, O. (2003) Remarks on some species of tardigrades from South America with the description of *Minibiotus sidereus* n. sp. *Zootaxa*, 195, 1–8.
- Pilato, G., Binda, M.G. & Lisi, O. (2004a) Notes on some tardigrades from Thailand, with descriptions of two new species. *New Zealand Journal of Zoology*, 31, 319–325.
<http://dx.doi.org/10.1080/03014223.2004.9518385>
- Pilato, G., Binda, M.G. & Lisi, O. (2004b) Notes on tardigrades of the Seychelles with the description of three new species. *Italian Journal of Zoology*, 71, 171–178.
<http://dx.doi.org/10.1080/11250000409356569>
- Pilato, G., Binda, M.G. & Quattieri, F. (1999) *Diphascoson (Diphascoson) mitrense*, new species of eutardigrade from Tierra del Fuego. *Bollettino dell'Accademia Gioenia di Scienze Naturali di Catania (Serie 4)*, 31, 101–105.
- Pilato, G., Claxton, S. & Binda, M.G. (1989) Tardigrades from Australia. II. The evaluation of *Calohypsibius ornatus* (Richters, 1900) *caelatus* (Marcus, 1928) as a valid species and the description of *Minibiotus fallax* n. sp. (Eutardigrada). *Animalia*, 16, 21–27.
- Pilato, G., Fontoura, P. & Lisi, O. (2007) Remarks on the *Echiniscus viridis* group, with the description of a new species (Tardigrada, Echiniscidae). *Journal of Limnology*, 66 (Supplement 1), 33–39.
<http://dx.doi.org/10.4081/jlimnol.2007.s1.33>

- Pilato, G., Binda, M.G., Napolitano, A. & Moncada, E. (2000) The specific value of *Macrobiotus coronatus* De Barros, 1942, and description of two new species of the *harmsworthi* group. *Bollettino dell'Accademia Gioenia di Scienze Naturali di Catania (Serie 4)*, 33, 103–120.
- Pilato, G., Binda, M.G., Napolitano, A. & Moncada, E. (2001) A contribution to the knowledge of South American tardigrades with the description of two new species, *Pseudechiniscus spinirectus* and *Macrobiotus danielae*. *Tropical Zoology*, 14, 223–231.
<http://dx.doi.org/10.1080/03946975.2001.10531154>
- Pilato, G., Binda, M.G., Napolitano, A. & Moncada, E. (2002) Tardigrades from Ecuador, with the description of two new species: *Mixibius ornatus* n. sp. and *Diphascion (Adropion) onorei* n. sp. (Eutardigrada, Hypsibiidae). *Studies on Neotropical Fauna and Environment*, 37, 175–179.
<http://dx.doi.org/10.1076/snfe.37.2.175.8584>
- Pilato, G., Binda, M.G., Napolitano, A. & Moncada, E. (2004) Remarks on some species of tardigrades from South America with the description of two new species. *Journal of Natural History*, 38, 1081–1086.
<http://dx.doi.org/10.1080/0022293031000071541>
- Pilato, G., Guidetti, R., Rebecchi, L., Lisi, O., Hansen, J.G. & Bertolani, R. (2006) Geonomy, ecology, reproductive biology and morphology of the tardigrade *Hypsibius zellandicus* (Eutardigrada: Hypsibiidae) with erection of *Borealibius* gen. n. *Polar Biology*, 29, 595–603.
<http://dx.doi.org/10.1007/s00300-005-0094-1>
- Plate, L. (1889) Beiträge zur Naturgeschichte der Tardigraden. *Zoologischer Jahrbücher (Abteilung für Anatomie und Ontogenie der Tiere)*, 3, 487–550.
- Puglia, C.H. (1959) *Some Aspects of the Taxonomy, Ecology and Distribution of the Tardigrades with Emphasis on the Tardigrades of East Central Illinois*. Ph.D. dissertation, University of Illinois, Urbana, Illinois, USA, 125 pp.
- Puglia, C.H. (1964) Some tardigrades from Illinois. *Transactions of the American Microscopical Society*, 83, 300–311.
<http://dx.doi.org/10.2307/3224741>
- Pulschen, A.A. & Meneghin, S.P. (2010) Estabelecimento de uma cultura de tardigrades limno-terrestres em laboratório e desenvolvimento de metodologias alternativas de desidratação de tardigrades. *Evidência, Joaçaba*, 10, 69–85.
- Rahm, G. (1931) Tardigrada of the South of America (esp. Chile). (1931) *Revista Chilena de Historia Natural Pura y Aplicada*, 35, 118–141.
- Rahm, G. (1932) Freilebende Nematoden, Rotatorien und Tardigraden aus Südamerika (besonders aus Chile). C. Tardigrada. *Zoologischer Anzeiger*, 98, 113–128.
- Rahm, G. (1937) Eine neue Tardigraden-ordnung aus den heißen Quellen von Unzen, Insel Kyushu, Japan. *Zoologischer Anzeiger*, 121, 65–71.
- Ramazzotti, G. (1943) Nuova varietà del tardigrado *Pseudechiniscus cornutus*. *Natura: Rivista di Scienze Naturali*, 34, 89–90.
- Ramazzotti, G. (1945) Tardigradi di Tovel. Prime osservazioni sui Tardigradi acquatici e descrizione di una nuova specie di *Hypsibius*. *Memorie dell'Istituto Italiano di Idrobiologia*, 2, 293–297.
- Ramazzotti, G. (1956) Tre nuove specie di Tardigradi ed alter specie poco comune. *Atti della Società italiana di Scienze naturali e del Museo Civico di Storia naturale in Milano*, 95, 284–281.
- Ramazzotti, G. (1957) Due nuove specie di tardigrade extra-europei. *Atti della Società italiana di Scienze naturali e del Museo Civico di Storia naturale in Milano*, 96, 188–191.
- Ramazzotti, G. (1959) Il gruppo dell'*Echiniscus viridis* con la nuova specie *E. perviridis* e *Macrobiotus pustulatus* altra nuova specie (Tardigrada). *Atti della Società italiana di Scienze naturali e del Museo Civico di Storia naturale in Milano*, 98, 303–309.
- Ramazzotti, G. (1961) Tardigradi del Lago di Mergozzo e descrizione della nuova specie *Macrobiotus nocentini*. *Memorie dell'Istituto Italiano di Idrobiologia*, 13, 45–49.
- Ramazzotti, G. (1962a) Il Phylum Tardigrada. *Memorie dell'Istituto Italiano di Idrobiologia*, 14, 1–732.
- Ramazzotti, G. (1962b) Tardigradi del Cile, con descrizione di quattro nuove specie e di una nuova varietà. *Atti della Società italiana di Scienze naturali e del Museo Civico di Storia naturale in Milano*, 101, 275–287.
- Ramazzotti, G. (1964a) Tardigradi del Chile. II. Con descrizione di due nuove specie e note sulla scultura degli Echiniscidae. *Atti della Società italiana di Scienze naturali e del Museo Civico di Storia naturale in Milano*, 83, 89–100.
- Ramazzotti, G. (1964b) Tardigradi del Cile. III. Con descrizione delle nuove specie *Oreella minor* e *Pseudechiniscus lateromamillatus*. *Atti della Società italiana di Scienze naturali e del Museo Civico di Storia naturale in Milano*, 103, 343–345.
- Ramazzotti, G. & Maucci, W. (1983) Il Phylum Tardigrada. *Memorie dell'Istituto Italiano di Idrobiologia*, 41, 1–1012.
- Ray, M.W. (2010) *Biodiversity and Biogeography of Limno-terrestrial Tardigrades of North Carolina*. Ph.D. Dissertation, North Carolina State University, Raleigh, North Carolina, USA, 281 pp.
- Rebecchi, L., Altiero, T., Eibye-Jacobsen, J., Bertolani, R. & Kristensen, R.M. (2008) A new discovery of *Novechiniscus armadilloides* (Schuster, 1975) (Tardigrada, Echiniscidae) from Utah, USA with consideration on non-marine Heterotardigrada phylogeny and biogeography. *Organisms, Diversity and Evolution*, 8, 58–65.
<http://dx.doi.org/10.1016/j.ode.2006.11.002>
- Richters, F. (1900) Beiträge zur Kenntnis der Fauna der Umgegend von Frankfurt a. M. *Bericht der Senckenbergischen Naturforschenden Gesellschaft in Frankfurt am Main*, 1900, 21–44.

- Richters, F. (1902a) Beiträge zur Kenntnis der Fauna der Umgebung von Frankfurt a. M. *Bericht der Senckenbergischen Naturforschenden Gesellschaft in Frankfurt am Main*, 1902, 3–21.
- Richters, F. (1902b) Neue Moosbewohner. *Bericht der Senckenbergischen Naturforschenden Gesellschaft in Frankfurt am Main*, 1902, 23–26.
- Richters, F. (1904a) Arktische Tardigraden. *Fauna Arctica*, 3, 493–508.
- Richters, F. (1904b) Nordische Tardigraden. *Zoologischer Anzeiger*, 27, 168–172.
- Richters, F. (1904c) Vorläufiger Bericht über die antarktische Moosfauna. *Verhandlungen der Deutschen Zoologischen Gesellschaft*, 1904, 236–239.
- Richters, F. (1905a) Beitrag zur Verbreitung der Tardigraden im südlichen Skandinavien und an der mecklenburgischen Küste. *Zoologischer Anzeiger*, 28, 347–352.
- Richters, F. (1905b) Isländische Tardigraden. *Zoologischer Anzeiger*, 28, 373–377.
- Richters, F. (1907) Zwei neue *Echiniscus*-Arten. *Zoologischer Anzeiger*, 31, 197–202.
- Richters, F. (1908a) Beitrag zur Kenntnis der Moosfauna Australiens und der Inseln des Pacifischen Ozeans. *Zoologischer Jahrbücher (Abteilung für Systematik, Geografie, und Biologie der Tiere)*, 26, 196–213.
- Richters, F. (1908b) Die Fauna der Moosrasen des Gaussbergs und einiger südlicher Inseln. *Deutsche Südpolar Expedition 1901-1903*, 9, 259–302.
- Richters, F. (1908c) Moosbewohner. *Wissenschaftliche Ergebnisse der Schwedischen Südpolar-Expedition 1901-1903*, 6, 1–16.
- Richters, F. (1908d) Moosfauna-Studien. *Bericht der Senckenbergischen Naturforschenden Gesellschaft in Frankfurt am Main*, II Teil, 14–30.
- Richters, F. (1909) Tardigraden-Studien. *Bericht der Senckenbergischen Naturforschenden Gesellschaft in Frankfurt am Main*, II Teil, 28–48.
- Richters, F. (1911a) Faune des Mousses. Tardigrades. *Duc de l'Orléans, Campagne arctique de 1907*, 4, 1–20 + plates I–II.
- Richters, F. (1911b) Moosfauna. In: Koenig, A. (Ed.), *Avifauna Spitzbergensis: Forschungsreisen nach der Bären-Inseln und dem Spitzbergen Archipel, mit ihren faunistischen und Floristischen Ergebnissen*. Privately printed, Bonn, pp. 283–286.
- Richters, F. (1911c) Südamerikanische Tardigraden. *Zoologischer Anzeiger*, 38, 273–277.
- Richters, F. (1926) Tardigrada. In: Kükenthal, W. & Krumbach, T. (Eds.), *Handbuch der Zoologie*. Walter de Gruyter & Co., Berlin, pp. 1–68.
- Riggin, Jr. G.T. (1959) A report on the study of the Tardigrada in the United States. *Southeastern Biology – The Bulletin of the Association of Southeastern Biologists*, 6, 317.
- Riggin, Jr. G.T. (1962) The Tardigrada of southwest Virginia, with the addition of a description of a new marine species from Florida. *Virginia Agricultural Experiment Station Technical Bulletin*, 152, 1–145.
- Riggin, Jr., G.T. (1963) Tardigrades from Costa Rica. *Proceedings of the Louisiana Academy of Sciences*, 26, 15–17.
- Riggin, Jr., G.T. (1964) Tardigrades from the southern Appalachian Mountains. *Transactions of the American Microscopical Society*, 83, 277–282.
<http://dx.doi.org/10.2307/3224737>
- Robotti, C. (1970) *Hypsibius (D.) ramazzottii* spec. nov. e *Macrobiotus aviglianae* spec. nov. Primo contributo alla conoscenza dei Tardigradi del Piemonte. *Atti della Società italiana di Scienze naturali e del Museo Civico di Storia naturale in Milano*, 110, 252–255.
- Rocha, A.M., Izaguirre, M.F., Moly de Peluffo, M.C., Peluffo, J.R. & Casco, V.H. (2007) Ultrastructure of the cuticle of *Echiniscus rufoviridis* [DuBois-Reymond Marcus, (1944) Heterotardigrada]. *Acta Microscopica*, 16, 16–21.
<http://dx.doi.org/10.4067/s0717-65382002000200002>
- Romano, III, F.A., Barreras-Borreo, B. & Nelson, D.R. (2001) Ecological distribution and community analysis of Tardigrada from Choccolocco Creek, Alabama. *Zoologischer Anzeiger*, 240, 535–541.
<http://dx.doi.org/10.1078/0044-5231-00064>
- Rossi, G.C. & Claps, M.C. (1980) Contribución al conocimiento de los tardígrados de Argentina. I. *Revista de la Sociedad Entomológica Argentina*, 39, 243–250
- Rossi, G.C. & Claps, M.C. (1989) Contribución al conocimiento de los tardígrados de Argentina. V. *Revista de la Sociedad Entomológica Argentina*, 47, 133–142.
- Rossi, G.C. & Claps, M.C. (1991) *Fauna de Agua Dulce de la República Argentina. Volumen 19. Tardigrada*. Profadu-Conicet, Paseo del Boque, Argentina, 70 pp.
- Rossi, G.C., Claps, M.C. & Ardohain, D. (2009) Tardigrades from northwestern Patagonia (Neuquén Province, Argentina) with description of three new species. *Zootaxa*, 2095, 25–36.
- Rudescu, L. (1964) Tardigrada. In: *Fauna Republicii Populare Române, vol. 4, Arthropoda, fasc.7*. Editura Academiei Republicii Populare Române, București, Romania, 404 pp.
- Ryan, J. (1977) Invertebrates of Truelove Lowland. In: Bliss, L.C. (Ed.), *Truelove Lowland, Devon Island, Canada: A High Arctic Ecosystem*. University of Alberta Press, Edmonton, Alberta, Canada, pp. 699–703.
- Sánchez-Moreno, S., Ferris, H. & Guil, N. (2007) Role of tardigrades in the suppressive service of a forest food web. *Agriculture, Ecosystems and Environment*, 119, 75–87.
<http://dx.doi.org/10.1016/j.agee.2007.09.011>
- Sayre, R.M. (1969) A method for culturing a predaceous tardigrade on the nematode *Panagrellus redivivus*. *Transactions of the American Microscopical Society*, 88, 266–274.
<http://dx.doi.org/10.2307/3224500>

- Schill, R.O., Förster, F., Dandekar, T. & Wolf, M. (2010) Using compensatory base change analysis of internal transcribed spacer 2 secondary structures to identify three new species in *Paramacrobiotus* (Tardigrada). *Organisms, Diversity & Evolution*, 10, 287–296.
<http://dx.doi.org/10.1007/s13127-010-0025-z>
- Schultze, C.A.S. (1834) *Macrobiotus hufelandi* animal e crustaceorum classe novum reviviscendi post diurnam asphyxiam et ariditatem potens, etc. 8, C. Curths, Berlin, 6 pp.
- Schuster, R.O. (1971) Tardigrada from the Barranca del Cobre, Sinaloa and Chihuahua, Mexico. *Proceedings of the Biological Society of Washington*, 84, 213–224.
- Schuster, R.O. (1975) A new species of *Parechiniscus* from Utah (Tardigrada: Echiniscidae). *Memorie dell'Istituto Italiano di Idrobiologia*, 32 Supplement, 333–336.
- Schuster, R.O. (1983) A new species of *Macrobiotus* from Tierra del Fuego (Tardigrada: Macrobiotidae). *Pan-Pacific Entomologist*, 59, 254–255.
- Schuster, R.O. & Grigarick, A.A. (1965) Tardigrada from western North America with emphasis on the fauna of California. *University of California Publications in Zoology*, 76, 1–65.
- Schuster, R.O. & Grigarick, A.A. (1966a) New Tardigrada from western North America: II, *Echiniscus*. *Proceedings of the Biological Society of Washington*, 79, 127–130.
- Schuster, R.O. & Grigarick, A.A. (1966b) Tardigrada from the Galápagos and Cocos Islands. *Proceedings of the California Academy of Science (Fourth Series)*, 34, 315–328.
- Schuster, R.O. & Grigarick, A.A. (1970) Tardigrada of Santa Cruz Island, California. *Pan-Pacific Entomologist*, 46, 184–193.
- Schuster, R.O. & Grigarick, A.A. (1971) Two new species of *Echiniscus* from the Pacific Northwest. *Proceedings of the Entomological Society of Washington*, 73, 105–110.
- Schuster, R.O. & Toftner, E.C. (1982) Dominican Republic Tardigrada. In: Nelson, D.R. (Ed.), *Proceedings of the Third International Symposium on Tardigrades, August 3–6, 1980, Johnson City, Tennessee, USA*. East Tennessee University Press, Johnson City, Tennessee, USA, pp. 231–235.
- Schuster, R.O., Grigarick, A.A. & Toftner, E.C. (1980) A new species of *Echiniscus* from California (Tardigrada: Echiniscidae). *Pan-Pacific Entomologist*, 56, 265–267.
- Schuster, R.O., Toftner, E.C. & Grigarick, A.A. (1977) Tardigrada of Pope Beach, Lake Tahoe, California. *Wasmann Journal of Biology*, 35, 115–136.
- Scourfield, D.J. (1897) Contributions to the non-marine fauna of Spitsbergen. Part I. Preliminary notes, and reports on the Rhizopoda, Tardigrada, Entomostraca, &c. *Proceedings of the Zoological Society (London)*, 65, 784–792.
<http://dx.doi.org/10.1111/j.1096-3642.1897.tb03120.x>
- Séméria, Y. (1985) Zoologie. – Deux nouvelles formes de Tardigrades du Nicaragua: *Echiniscus maesi* n. sp. (Heterotardigrada, Echiniscoidea, Echiniscidae) et *Macrobiotus islandicus nicaraguensis* n. ssp. (Eutardigrada, Macrobiotidae). *Compte rendus de l'Académie des Sciences (Paris, Série III)*, 300, 9–11.
- Séméria, Y. (1990) Les tardigrades de la côte orientale de Groenland. Résultats de la 3e expedition du G.E.C.R.P. au Scoresbysund. *Bulletin mensuel de la Société linnéenne de Lyon*, 59, 325–332.
- Séméria, Y. (1993) Description d'une espèce nouvelle de tardigrade du Vénézuéla, *Ramazzottius edmondabouti* n. sp. (Eutardigrada Hypsibiidae). *Bulletin mensuel de la Société linnéenne de Lyon*, 62, 215–216. *Bulletin mensuel de la Société linnéenne de Lyon*, 58, 124–134.
- Séméria, Y. (2003) Tardigrades des cryoconites du Groenland. Exploration de l'inlandis et des abords immédiats. *Bulletin mensuel de la Société linnéenne de Lyon*, 73, 191–192.
- Séméria, Y. & Elin, E. (1989) Les tardigrades de Groenland. Résultats de la 2° expedition du G.E.C.R.P. au Scoresbysund (côte orientale – 1985). *Bulletin mensuel de la Société linnéenne de Lyon*, 58, 124–134.
- Stark, C. & Kristensen, R.M. (1999) Tardigrades in the soil of Greenland. *Bericht zur Polarforschung*, 330, 44–63.
- Strayer, D. (1985) The benthic micrometazoans of Mirror Lake, New Hampshire. *Archiv für Hydrobiologie*, 72 Supplement, 287–426.
- Strayer, D., Nelson, D.R. & O'Donnell, E.B. (1994) Tardigrades from shallow groundwater in southeastern New York, with the first record of *Thulinia* from North America. *Transactions of the American Microscopical Society*, 113, 325–332.
- Stubbs, C.S. (1989) Patterns of distribution and abundance of corticolous lichens and their invertebrate associates on *Quercus rubra* in Maine. *The Bryologist*, 92, 453–460.
<http://dx.doi.org/10.2307/3243665>
- Sutcliffe, A.J., Blake, Jr., W., Baker, A., Blackith, R., Ferry, B., Hamilton, P., Longton, R., Marley, N., Miller, F.L., Pegler, D., Smith, K. & Wanless, F. (2000) Biological activity on a decaying caribou antler at Cape Herschel, Ellesmere Island, Nunavut, high Arctic Canada. *Polar Record*, 36, 233–246.
<http://dx.doi.org/10.1017/s0032247400016491>
- Szymanska, B. (1994) The Tardigrada from the Axel Heiberg Island and the associate bryophyte species. *Folia Entomologica Hungarica*, 55, 359–368.
- Tarter, D.C. & Nelson, D.R. (1990) An altitudinal comparison of the tardigrade fauna (Phylum Tardigrada) from mosses on Spruce Mountain, West Virginia. *Proceedings of the West Virginia Academy of Science*, 62, 134–150.
- Tarter, D.C. & Nelson, D.R. (1993) First records of tardigrades (Phylum Tardigrada) from mosses in the Cranberry Glades Botanical Area in the Monongahela National Forest, Pocahontas County, West Virginia. *Proceedings of the West Virginia Academy of Science*, 65, 36.

- Tarter, D.C. & Nelson, D.R. (1994) Preliminary list of tardigrades (Phylum: Tardigrada) from mosses and liverworts in the Monongahela National Forest. *Proceedings of the West Virginia Academy of Science*, 66, 34.
- Tarter, D.C., Ruggles, K., Gillenwater, S. & Nelson, D. (1992) First records of water bears (Phylum: Tardigrada) from West Virginia. *Proceedings of the West Virginia Academy of Science*, 1989, 61, 96–99.
- Thulin, G. (1911) Beitrag zur Kenntnis der Tardigradenfauna Schwedens. *Arkiv för zoologi (Stockholm)*, 7, 1–60.
- Thulin, G. (1928) Über die Phylogenie und das System der Tardigraden. *Hereditas*, 11, 207–266.
<http://dx.doi.org/10.1111/j.1601-5223.1928.tb02488.x>
- Tumanov, D.V. (2006) Five new species of the genus *Milnesium* (Tardigrada, Eutardigrada, Milnesiidae). *Zootaxa*, 1122, 1–23.
- Udvardy, M.D.F. (1975) A classification of the biogeographical provinces of the world. *IUCN Occasional Paper No. 18*, 1–48.
<http://dx.doi.org/10.1017/s0376892900019226>
- Urbanowicz, C. (1925) Sur la variabilité de *Macrobiotus oberhaeuseri*. *Bulletin biologique de la France et de la Belgique (Paris)*, 59, 124–142.
- Van der Land, J. (1970) Kleine dieren uit het zoete water van Suriname verslag van een Onderzoek in 1967. *Zoologische Bijdragen (Leiden)*, 12, 1–46.
- Vanhöffen, E. (1897) Die Fauna und Flora Grönlands. II. Teil. In: Von Drygalski, E. (Ed.), *Grönland-Expedition der Gesellschaft für Erdkunde zu Berlin 1891-93*. W.H. Kuhl, Berlin, Germany, 383 pp.
- Van Rompu, E.A., Smet, W.H. & Bafort, J.M. (1991) Contributions to the Tardigrada of the Canadian High Arctic. 2. Freshwater tardigrades from Little Cornwallis Island, N.W.T. Canada. *Biologisch Jaarboek Dodonaea*, 59, 132–140.
- Van Rompu, E.A., Smet, W.H. & Beyens, L. (1992) Contributions to the Tardigrada of the Canadian High Arctic. 1. Freshwater tardigrades from Devon Island, Northwest Territories. *Canadian Field-Naturalist*, 106, 303–310.
- Van Rompu, E.A., Smet, W.H. & Beyens, L. (1999-2000) Tardigrada from Victoria Island, Arctic Canada. *Biologisch Jaarboek Dodonaea*, 67, 124–137.
- Van Rompu, E.A., Smet, W.H. & Coomans, A. (1995) Tardigrada from the Galápagos and Solomons Islands. *Biologisch Jaarboek Dodonaea*, 63, 152–160.
- Vicente, F. & Bertolani, R. (2013) Considerations on the taxonomy of the Phylum Tardigrada. *Zootaxa*, 3636 (2), 245–248.
<http://dx.doi.org/10.11646/zootaxa.3626.2.2>
- Vicente, F., Fontoura, F., 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, 557–572.
<http://dx.doi.org/10.11646/zootaxa.3613.6.3>
- Wainberg, R.H. & Hummon, W.D. (1981) Morphological variation of the tardigrade *Isohypsibius salturus*. *Transactions of the American Microscopical Society*, 100, 21–33.
<http://dx.doi.org/10.2307/3225779>
- Wallendorf, M. & Miller, W.R. (2009) Tardigrades of North America: *Milnesium alabamiae* nov. sp. (Eutardigrada: Apochela: Milnesiidae) a new species from Alabama. *Transactions of the Kansas Academy of Science*, 112, 181–186.
<http://dx.doi.org/10.1660/062.112.0404>
- Węglarska, B. (1959) Tardigraden Polens. II. Teil. *Vestnik Československé Společnosti Zoologické (Acta Societatis Zoologicae Bohemoslovenicae)*, 23, 354–357.
- Węglarska, B. (1962) Die Tardigraden Vietnams. *Vestnik Československé Společnosti Zoologické (Acta Societatis Zoologicae Bohemoslovenicae)*, 26, 300–307.
- Węglarska, B. (1965) Die Tardigraden (Tardigrada) Spitzbergens. *Acta Zoologica Cracoviensia*, 11, 43–52.
- Węglarska, B. (1970) *Hypsibius (Isohypsibius) smreczynskii* spec. nov., a new species of freshwater tardigrade. *Zeszyty Naukowe Uniwersytetu Jagiellońskiego (Prace Zoologiczne)*, 16, 107–114.
- Węglarska, B. (1973) Tardigrada in the high Tatra localities bare of snow, with a description of *Itaquascon pawlowskii* sp. n. *Vestnik Československé Společnosti Zoologické*, 37, 150–154.
- Węglarska, B., & Kuc, M. (1980) Heterotardigrada from Axel Heiberg Island. *Zeszyty Naukowe Uniwersytetu Jagiellońskiego (Prace Zoologiczne)*, 26, 53–66.
- Whitman, R.L. & Clark, W.J. (1984) Ecological studies of the sand-dwelling community of an East Texas stream. *Freshwater Invertebrate Zoology*, 3, 59–79.
<http://dx.doi.org/10.2307/1467095>
- Williams, T.C. (1982) *A Study of Tardigrade Populations from Brush Creek Tributary, Washington County, Tennessee*. M.Sc. Thesis, East Tennessee State University, Johnson City, Tennessee, USA, 65 pp.
- Winkelmann, R.K., Elzinga, C. Nelson, D.R., Edlund, M.B. & Sommerfeld, M.R. (2004) The plankton of the St. Croix River in 2000, including tardigrades, a red alga, and Chrysophyceae. *Journal of Freshwater Ecology*, 19, 179–188.
<http://dx.doi.org/10.1080/02705060.2004.9664530>
- Word, D.H. (1976) *A Survey of Alabama Tardigrades*. M.Sc. Thesis, Auburn University, Auburn, Alabama, USA, 76 pp.