

Acoela (Acoelomorpha) from the northern beaches of the state of São Paulo, Brazil, and a systematic revision of the family Otocelididae

MATTHEW D. HOOGE¹ & CARLOS E. F. ROCHA²

¹Department of Biological Sciences, The University of Maine, 5751 Murray Hall, Orono, ME, 04469-5751, USA.

²Departamento de Zoologia, Instituto de Biociências, Universidade de São Paulo, Rua do Matão trav. 14 no. 101, 05508-900 São Paulo, Brazil

Table of contents

Abstract	3
Introduction	3
Materials and methods	3
Family Actinoposthiidae Hooge, 2001	4
Genus <i>Philactinoposthia</i> Dörjes, 1968	4
<i>Philactinoposthia coneyi</i> sp. nov.	4
<i>Philactinoposthia stylifera brasiliensis</i> subsp. nov.	9
Family Convolutidae Graff, 1905	12
Genus <i>Amphiscolops</i> Graff, 1905	12
<i>Amphiscolops evelinae</i> Marcus, 1947	12
Genus <i>Convoluta</i> Ørsted, 1843	12
<i>Convoluta hensenii</i> Bohmig, 1895	12
Genus <i>Heterochaerus</i> Haswell, 1905	14
<i>Heterochaerus sargassi</i> (Hyman, 1939)	14
Family Haploposthiidae Westblad, 1948	15
Genus <i>Haplogonaria</i> Dörjes, 1968	15
<i>Haplogonaria sophiae</i> sp. nov.	15
Genus <i>Kuma</i> Marcus, 1950	17
<i>Kuma albiventer</i> (Marcus, 1954)	17
Genus <i>Kuma</i> Marcus, 1950	19
<i>Kuma asilhas</i> sp. nov.	19
Family Isodiametridae Hooge and Tyler, 2005	22
Genus <i>Archaphanostoma</i> Dörjes, 1968	22
<i>Archaphanostoma marcusii</i> sp. nov.	22

Genus <i>Avagina</i> Leiper, 1902	23
<i>Avagina marci</i> Dörjes and Karling, 1975	23
Genus <i>Isodiametra</i> Hooge and Tyler, 2005	26
<i>Isodiametra divae</i> (Marcus, 1950)	26
<i>Isodiametra vexillaria</i> (Marcus, 1948)	27
<i>Isodiametra westbladi</i> (Marcus, 1949)	29
Genus <i>Pseudaphanostoma</i> Westblad, 1946	30
<i>Pseudaphanostoma divae</i> Marcus, 1952	30
<i>Pseudaphanostoma herringi</i> sp. nov.	30
Unidentified species	35
Genus 1 species 1	35
Family Mecynostomidae Dörjes, 1968	35
Genus <i>Eumecynostomum</i> Faubel and Regier, 1983	35
<i>Eumecynostomum evelinae</i> (Marcus, 1948)	35
Family Otocelididae Westblad, 1948	37
Genus <i>Haplocelis</i> Dörjes, 1968	37
<i>Haplocelis dichona</i> (Marcus, 1954)	37
Genus <i>Otocelis</i> Diesing, 1862	37
<i>Otocelis erinae</i> sp. nov.	37
Family Otocelididae Westblad, 1948	41
Genus <i>Philocelis</i> Dörjes, 1968	41
<i>Philocelis robrochai</i> sp. nov.	41
Family Paratomellidae Dörjes, 1966	45
Genus <i>Paratomella</i> Dörjes, 1966	45
<i>Paratomella rubra</i> Rieger and Ott, 1971	45
Reassignment of the genera <i>Haplocelis</i> Dörjes, 1968 and <i>Otocelis</i> Diesing, 1862 (Otocelididae) to the Family Isodiametridae	47
Emended diagnosis of the genus <i>Haplocelis</i> Dörjes, 1968	47
Emended diagnosis of the genus <i>Otocelis</i> Diesing, 1862	48
Acknowledgments	48
References	48