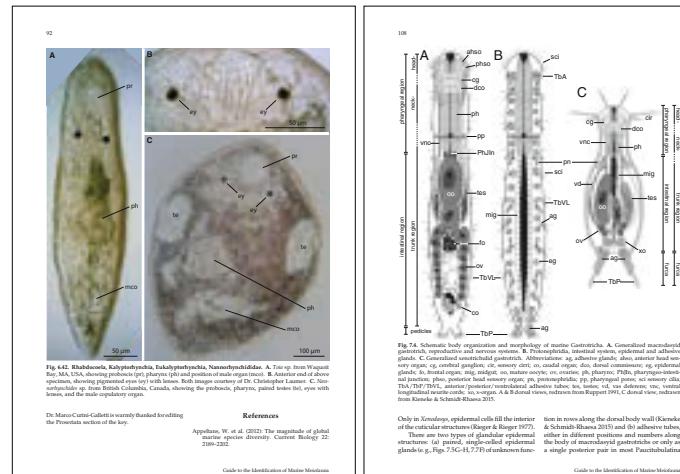


Marine meiofauna, the community of smallest animals in marine sediments, is a fascinating and important part of the marine ecosystem. In this book, 53 authors introduce the 32 animal groups that occur in the meiofauna. Chapters contain information on where and how to sample meiofaunal animals as well as how to identify them. Keys help in the identification.

This book complements existing literature on meiofauna and may serve as a fascinating introduction into meiofaunal taxa as well as a practical guide to work with meiofauna in the field or in the laboratory.

The rich illustration of the book and the expertise of specialists make this book suitable for beginners as well as experienced researchers on meiofauna.



## Order form

Order online at [www.pfeil-verlag.de](http://www.pfeil-verlag.de)

100

1

104

104

E-mail

Verlag Dr. Friedrich Pfeil  
Wolfratshauser Straße 27  
81379 München  
Germany

Phone.: +49 89 5528600-0 • Fax: +49 89 5528600-4  
E-mail: [info@mfu.wu.ac.at](mailto:info@mfu.wu.ac.at)

02-2020

# **Marine Meiofauna**

Guide to the Identification of  
Herbivorous Crustaceans

ISBN 978-3-89937-344-1

€ 68,00

Copy (copies)

Plus SHIPPING costs. More information at [www.pfeil-verlag.de](http://www.pfeil-verlag.de).

Please charge my CC:  Master/Eurocard  V

Card number:

卷之三

5

Cinematography

# Guide to the Identification of **Marine Meiofauna**

edited by  
Andreas Schmidt-Rhaesa



# Guide to the Identification of **Marine Meiofauna**

edited by  
**Andreas Schmidt-Rhaesa**



Verlag Dr. Friedrich Pfeil · München

# Guide to the Identification of **Marine Meiofauna**

edited by  
Andreas Schmidt-Rhaesa

608 pages  
198 coloured and 135 black-and-white figures,  
6 tables,  
40 partly illustrated identification keys  
24.5 x 17.3 cm  
Hardcover  
ISBN 978-3-89937-244-1  
68.00 €

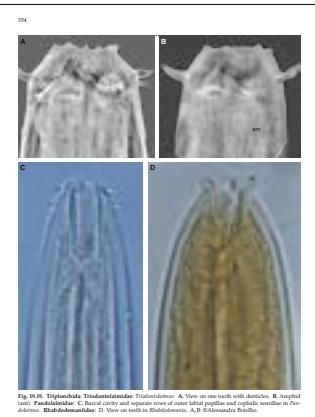
## Contents

## **Foreword (pp. 7–8)**

- 1 **Introduction** (pp. 9–16)
  - 2 **General key** (pp. 17–23)
  - 3 **Ciliophora** Stephen C. Landers (pp. 24–32)
  - 4 **Cnidaria** Andreas Schmidt-Rhaesa, Sofia Pyataeva and Allen G. Collins (pp. 33–43)



**Fig. 19.19.** Triplachida: *Triodontolaimidae*: *Triodontolaimus*: A. View on one tooth with denticles. B. Anaphore (am). *Fundulolaimidae*: C. Buccal cavity and separate rows of outer labial papillae and cephalic sensillae in *Pseudodelma*. *Rhabdodemaniidae*: D. View on teeth in *Rhabdodemania*. A, B: ©Alessandra Totelha.



- 5 Acoelomorpha** Ulf Jondelius and Ylva Jondelius (pp. 44–53)

**6 Platyhelminthes** Julian P. S. Smith III, Niels Van Steenkiste and Tom Artois (pp. 54–103)

**7 Gastrotricha** Alexander Kieneke, Lukas Münter and Ole Riemann (pp. 104–163)

**8 Rotifera** Wilko Ahlrichs and Ole Riemann (pp. 164–198)

**9 Gnathostomulida** Martin V. Sørensen and Wolfgang Sterrer (pp. 199–226)

**10 Nemertea** Jörn von Döhren and Thomas Bartolomaeus (pp. 227–238)

**11 Annelida (excluding Clitellata and Sipuncula)** Katrine Worsaae (pp. 239–270)

**12 Oligochaeta (Clitellata)** Olav Giere (pp. 271–276)

**13 Sipuncula** Anja Schulze, Gisele Y. Kawauchi and Alvaro Migotto (pp. 277–284)

**14 Entoprocta** Claus Nielsen (pp. 285–287)

**15/16 Mollusca (Gastropoda and Aplacophora)** Katharina M. Jörger (p. 288)

**15 Gastropoda** Katharina M. Jörger, Timea P. Neusser, Bastian Brenzinger and Michael Schrödl (pp. 289–307)

**16 Aplacophoran molluscs: Solenogastres and Caudofoveata** Franziska S. Bergmeier and Katharina M. Jörger (pp. 308–320)

**17 Bryozoa** Jörg Ott and Thomas Schwaha (pp. 321–326)

**18 Brachiopoda** Carsten Lüter (pp. 327–330)

**19 Nematoda** Nicole Smol, Tânia Nara Bezerra and Wilfrida Decraemer (pp. 331–386)

**20 Priapulida** Andreas Schmidt-Rhaesa (pp. 387–390)

**21 Kinorhyncha** Martin V. Sørensen and Fernando Pardos (pp. 391–414)

**22 Loricifera** Shinta Fujimoto and Reinhardt Møbjerg Kristensen (pp. 415–427)

**23 Tardigrada** Jesper Guldberg Hansen and Reinhardt Møbjerg Kristensen (pp. 428–444)

**24 Halacaridae (Prostigmata: Acari)** Ilse Bartsch (pp. 445–453)

**25 Mystacocarida** Jørgen Olesen (pp. 454–458)

**26 Cephalocarida** Jørgen Olesen (pp. 459–464)

**27 Copepoda** Kai Horst George, Sahar Khodami, Terue Cristina Kihara, Pedro Martínez Arbizu, Alejandro Martínez, Nancy F. Mercado-Salas, Karin Pointner and Gritta Veit-Köhler (pp. 465–533)

**28 Ostracoda** Dietmar Keyser (pp. 534–560)

**29 Isopoda** Nicole Coineau (pp. 561–576)

**30 Cumacea** Ute Mühlenhardt-Siegel (pp. 577–581)

**31 Chaetognatha** Andreas Schmidt-Rhaesa (pp. 582–584)

**32 Enteropneusta** Sabrina Kaul-Strehlow and Katrine Worsaae (pp. 585–587)

**33 Echinodermata: Holothuroidea** David L. Pawson (pp. 588–591)

**34 Tunicata (Ascidia)** Andreas Schmidt-Rhaesa (pp. 592–597)

**My meiofauna story**

How (not) to deal with sponsors (Andreas Schmidt-Rhaesa) (p. 598)

How I came to be a meiobenthologist (Jörg Ott) (p. 599)

Fantastic Meiofauna or Meiofauna at the Verge of Credibility (Olav Giere) (pp. 599–600)

Sampling *Symsagittifera*: Green colour disappearing into the sand (Andreas Schmidt-Rhaesa) (pp. 600–601)

Serendipity – or how I stumbled onto gnathostomulids (Wolfgang Sterrer) (pp. 601–603)

The “archiannelid” lump (Carsten Lüter) (pp. 603–604)

A sieve for megafauna (Andreas Schmidt-Rhaesa) (p. 604)

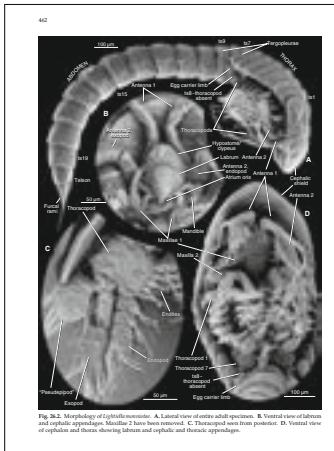
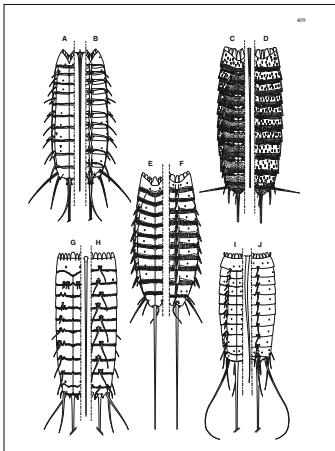


Fig. 26.2. Morphology of *Lightiella monstrosa*. A. Lateral view of entire adult specimen. B. Ventral view of labrum

- 23 Tardigrada** Jesper Guldborg Hansen and Reinhardt Møbjerg Kristensen (pp. 428–444)

**24 Halacaridae (Prostigmata: Acari)** Ilse Bartsch (pp. 445–453)

**25 Mystacocarida** Jørgen Olesen (pp. 454–458)

**26 Cephalocarida** Jørgen Olesen (pp. 459–464)

**27 Copepoda** Kai Horst George, Sahar Khodami, Terue Cristina Kihara, Pedro Martínez Arbizu, Alejandro Martínez, Nancy F. Mercado-Salas, Karin Pointner and Gritta Veit-Köhler (pp. 465–533)

**28 Ostracoda** Dietmar Keyser (pp. 534–560)

**29 Isopoda** Nicole Coineau (pp. 561–576)

**30 Cumacea** Ute Mühlenhardt-Siegel (pp. 577–581)

**31 Chaetognatha** Andreas Schmidt-Rhaesa (pp. 582–584)

**32 Enteropneusta** Sabrina Kaul-Strehlow and Katrine Worsaae (pp. 585–587)

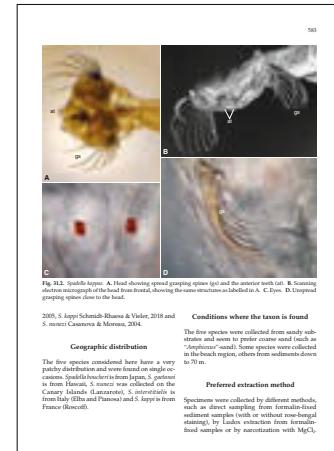
**33 Echinodermata: Holothuroidea** David L. Pawson (pp. 588–591)

**34 Tunicata (Ascidia)** Andreas Schmidt-Rhaesa (pp. 592–597)

## My meiofauna story

- How (not) to deal with sponsors (Andreas Schmidt-Rhaesa) (p. 598)
  - How I came to be a meiobenthologist (Jörg Ott) (p. 599)
  - Fantastic Meiofauna or Meiofauna at the Verge of Credibility (Olav Giere) (pp. 599–600)
  - Sampling *Symsagittifera*: Green colour disappearing into the sand (Andreas Schmidt-Rhaesa) (pp. 600–601)
  - Serendipity – or how I stumbled onto gnathostomulids (Wolfgang Sterrer) (pp. 601–603)
  - The “archiannelid” lump (Carsten Lüter) (pp. 603–604)
  - A sieve for megafauna (Andreas Schmidt-Rhaesa) (p. 604)

## **Authors** (pp. 605)



grasping spines close to the head.

The five species were collected from sandy substrates and seem to prefer coarse sand (such as "Amphibius"-sand). Some species were collected in the beach region, others from sediments down to 20 m.

#### **Preferred extraction method**

*interstitialis* is from *S. kappi* is from Specimens were collected by different methods, such as direct sampling from formalin-fixed sediment samples (with or without rose-bengal

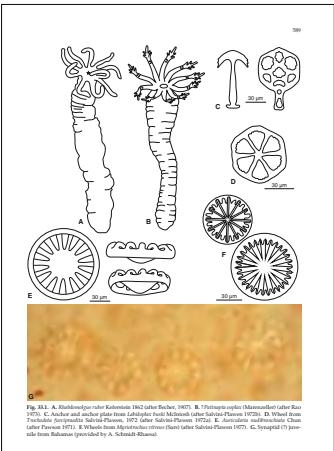


Fig. XXL A. *Lithodiuspis rufa* Koenike 1862 (after Techer, 1907). B. ?*Pectinopterus capax* (Marenzeller) (after Rao 1973). C. Anchor and anchor plate from *Lithodiuspis rufa* Marenz. (after Sabatini-Florino 1972a). D. Wheel from *Trochus fimbriatus* (Gmelin 1773) (after Cateni-Massoni 1973). E. *Leucostoma rufum* (Gmelin 1791). (Cross