

ZOOSYMPOSIA

2

Proceedings of the Ninth International Polychaete Conference

N.J. MACIOLEK & J.A. BLAKE (EDS)



Magnolia Press
Auckland, New Zealand

N.J. MACIOLEK & J.A. BLAKE (EDS)
Proceedings of the Ninth International Polychaete Conference
(*Zoosymposia* 2)

600 pp.; 23 cm (hardback edition); 30 cm (online edition)

31 Aug. 2009

ISBN 978-1-86977-373-1 (hardback)

ISBN 978-1-86977-374-8 (Online edition)

FIRST PUBLISHED IN 2009 BY

Magnolia Press

P.O. Box 41-383

Auckland 1346

New Zealand

e-mail: zoosymposia@mapress.com

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

© 2009 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.

Series editor, ZHI-QIANG ZHANG

ISSN 1178-9905 (Print edition)

ISSN 1178-9913 (Online edition)



Proceedings of the Ninth International Polychaete Conference

N.J. MACIOLEK & J.A. BLAKE (EDS)

AECOM Environment, Marine & Coastal Center, Woods Hole, Massachusetts, USA

Table of contents

- 7 **Preface**
JAMES A. BLAKE & NANCY J. MACIOLEK

OBITUARIES

- 11 **Obituary Edward B. Cutler (1935–2006)**
HARLAN K. DEAN
- 13 **Obituary Torleif Holthe (1946–2007)**
TORKILD BAKKEN & JON-ARNE SNELI
- 17 **Obituary Jørgen Bagger Kirkegaard (1920–2006)**
DANNY EIBYE-JACOBSEN
- 21 **Obituary Nathan Wendell Riser (1920–2006)**
KEVIN J. ECKELBARGER

SYSTEMATICS & PHYLOGENY

- 25 ***Capitella teleta*, a new species designation for the opportunistic and experimental *Capitella* sp. I, with a review of the literature for confirmed records**
JAMES A. BLAKE, JUDITH P. GRASSLE & KEVIN J. ECKELBARGER
- 55 **Redescription of *Capitella capitata* (Fabricius) from West Greenland and designation of a neotype (Polychaeta, Capitellidae)**
JAMES A. BLAKE
- 81 **A new species of *Poecilochaetus* (Polychaeta: Poecilochaetidae) from coastal waters off Southern California, USA**
CHERYL A. BRANTLEY
- 91 **Two new species of *Diplocirrus* (Polychaeta: Flabelligeridae) from the southern Irish Sea and South Africa**
TERESA DARBYSHIRE & ANDREW S. Y. MACKIE

- 105 ***Monticellina* (Polychaeta: Cirratulidae) from the Pacific coast of Costa Rica with descriptions of six new species**
HARLAN K. DEAN & JAMES A. BLAKE
- 127 **Two new species of *Aphelochaeta* (Polychaeta: Cirratulidae) from deep water off northern California**
STACY A. DONER & JAMES A. BLAKE
- 139 **Two new species of Cirratulidae (Annelida: Polychaeta) from Mar del Plata, Argentina (SW Atlantic)**
RODOLFO ELÍAS & MARÍA SILVIA RIVERO
- 149 **Polynoidae (Annelida: Polychaeta) associated with cold-water coral reefs of the northeast Atlantic and the Mediterranean Sea**
DIETER FIEGE & RUTH BARNICH
- 165 ***Inermonephtys brasiliensis* sp. nov. (Polychaeta: Nephtyidae) from SE Brazil, with a redescription of *I. palpata* Paxton, 1974**
DANIEL MARTIN, JOÃO GIL & PAULO DA CUNHA LANA
- 179 **Magelonidae (Polychaeta) from Hong Kong, China, with discussions on related species and redescriptions of three species**
KATE MORTIMER & ANDREW S. Y. MACKIE
- 201 **Three new serpulids (Polychaeta: Serpulidae) from the Brazilian Exclusive Economic Zone**
JOÃO MIGUEL DE MATOS NOGUEIRA & ADRIANO ABBUD
- 229 **Morphology and ecology of a new sexually dimorphic species of *Polydora* (Polychaeta: Spionidae) associated with hermit crabs from Jamaica, West Indies**
LARA D. ORENSKY & JASON D. WILLIAMS
- 241 **Phylogeny of Eunicida (Annelida) based on morphology of jaws**
HANNELORE PAXTON
- 265 ***Laonice* (Annelida: Spionidae) from South and Central America**
VASILY I. RADASHEVSKY & PAULO DA CUNHA LANA
- 297 ***Mesonerilla neridae* sp. nov. (Nerillidae): First meiofaunal annelid from deep-sea hydrothermal vents**
KATRINE WORSAAE & GREG W. ROUSE

BIOLOGY & MORPHOLOGY

- 305 **A review of paragnath morphology in Nereididae (Polychaeta)**
TORKILD BAKKEN, CHRISTOPHER J. GLASBY & ROBIN S. WILSON

- 317 **Evidence of a dorsal pharynx in the marine polychaete *Capitella teleta* (Polychaeta: Capitellidae)**
MICHAEL J. BOYLE & ELAINE C. SEAVER
- 329 **Surface analyses of biocements from *Pectinaria gouldii* (Polychaeta: Pectinariidae) and *Phragmatopoma lapidosa* (Polychaeta: Sabellariidae)**
MARIA DEAN, JOHN WELCH, CASSIDY BRANDT & THOMAS TAUER
- 339 **Ecology and biology of chemoreception in polychaetes**
SARA M. LINDSAY
- 369 **The ontogeny of parapodia and setae in *Laeonereis culveri* (Webster) (Polychaeta: Nereididae)**
MICHAEL MAZURKIEWICZ
- 379 **On the morphology of elytra as luminescent organs in scale-worms (Polychaeta, Polynoidae)**
MARIA PLYUSCHEVA & DANIEL MARTIN
- 391 **Reproductive longevity in two species of polychaetous annelids**
DONALD J. REISH, KARIN DE CALLIBUS, JESSICA DEWAR & CHERYL BUBE
- 397 **Variable modes of larval development in the *Polydora cornuta* complex (Polychaeta: Spionidae) are directly related to stored sperm availability**
STANLEY A. RICE & KATHERINE A. RICE
- 415 **Morphological variation of axial non-muscular proboscis types in the Polychaeta**
ALEXANDER TZETLIN & ANNA ZHADAN
- 429 **Anterior muscular system of the dwarf ectoparasitic male *Scolelepis laoncola* (Tzetlin, 1985) (Polychaeta, Spionidae)**
ELENA VORTSEPNEVA, ALEXANDER TZETLIN & EUGENI TSITRIN
- 437 **Nervous system of the dwarf ectoparasitic male of *Scolelepis laoncola* (Polychaeta, Spionidae)**
ELENA VORTSEPNEVA, ALEXANDER TZETLIN & EUGENI TSITRIN
- 447 **Arenicolid behaviors: similarity of *Arenicola marina* and *Abarenicola pacifica***
SARAH ANN WOODIN & DAVID S. WETHEY

ECOLOGY & BIODIVERSITY

- 457 **Polychaete diversity patterns on two Arctic shelves: impacts of ice and primary production?**
WILLIAM G. AMBROSE, JR., PAUL E. RENAUD, SABINE K.J. COCHRANE,
STANISLAV G. DENISENKO & JOFRID SKARÐHAMAR

- 487 **Distribution of *Idanthyrsus cretus* (Polychaeta: Sabellariidae) in the Tropical Eastern Pacific and application of PCR-RAPD for population analysis**
L. M. BARRIOS, S. J. CHAMBERS, N. ISMAIL, H.M. GUZMAN & J. M. MAIR
- 505 **Polychaete fauna in the vicinity of bluefin tuna sea-cages in Ensenada, Baja California, Mexico**
VICTORIA DÍAZ-CASTAÑEDA & SANTIAGO VALENZUELA-SOLANO
- 527 ***Sabellaria alveolata* (Linnaeus) reefs and associated polychaete fauna**
BARBARA LA PORTA & LUISA NICOLETTI
- 537 **Diversity and ecology of Pilargidae (Annelida: Polychaeta) from the Gulf of Carpentaria and Arafura Sea, northern Australia**
SHONA A. HOCKNULL & CHRISTOPHER J. GLASBY
- 551 **The polychaete community of the Fregene artificial reef (Tyrrhenian Sea, Italy): a 20-year study (1981–2001)**
SARA MARZIALETTI, LUISA NICOLETTI & GIAN DOMENICO ARDIZZONE
- 567 **Distribution of *Magelona* species (Polychaeta: Magelonidae) in the German Bight (North Sea): a modeling approach**
KARIN MEIßNER & ALEXANDER DARR
- 587 **Biodiversity of polychaetous annelids from the peninsula of Cap Bon, northeast coast of Tunisia**
SANA ZAÂBI, PATRICK GILLET, AHMED AFLI & MONCEF BOUMAIZA