ABOUT THE BOOK

In the 12 years since publication of *Invertebrates*, Second Edition, fundamental shifts have occurred in our understanding of the origins and evolutionary relationships among protists and animals. These changes are largely due to the explosion of molecular phylogenetics and evo-devo research, emergence of the new field of animal genomics, major fossil discoveries in China, Australia, and elsewhere, and important new embryological and ultrastructural studies. As a result:

- New phyla have been described (e.g., Micrognathozoa, Xenacoelomorpha).
- Old phyla have been collapsed into others (e.g., Sipuncula and Echiura are now placed within Annelida; acanthocephalans are now known to be highly modified, parasitic rotifers).
- Phyla once thought to be deuterostomes are now part of the protostome clade (e.g., Chaetognatha, Phoronida, Bryozoa, Brachiopoda).
- The Protostomia has been reorganized into two major clades known as Ecdysozoa and Spiralia.

For each of the 32 currently recognized phyla, *Invertebrates*, Third Edition presents detailed classifications, revised taxonomic synopses, updated information on general biology and anatomy, and current phylogenetic hypotheses, organized with boxes and tables, and illustrated with abundant line drawings and new color photos. The chapters are organized around the “new animal phylogeny,” while introductory chapters provide basic background information on the general biology of invertebrates. Two new coauthors have been added to the writing team, and 22 additional invertebrate zoologists have contributed to chapter revisions. This benchmark volume on our modern views of invertebrate biology should be in every zoologist’s library.

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Invertebrates
Third Edition
Wendy Moore is Assistant Professor in the Department of Entomology at the University of Arizona and Curator of the University of Arizona Insect Collection. Her degrees were earned at Vanderbilt University (B.S., General Biology), the College of Charleston (M.S., Marine Biology), and the University of Arizona (Ph.D., Entomology/Ecology and Evolutionary Biology). Dr. Moore’s long-term research interest is the evolution of biotic diversity—especially the evolution of symbiotic lifestyles and how major biotic, climatic, and tectonic events may have influenced the timing and patterns of diversification. Much of her current research is on the carabid beetle subfamily Paussinae, many species of which are obligate symbionts with ants. She is also deeply committed to collections care and enhancement, and the use of bioinformatics to make collections-based data widely available to diverse user communities.

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Richard C. Brusca, Wendy Moore, and Stephen M. Shuster, with 22 contributors
CONTENTS

1. Introduction
2. Classification, Systematics, Phylogeny
3. The Protists
4. Introduction to Metazoa: Animal Architecture
5. Introduction to Metazoa: Animal Development, Life Histories, and Origins
6. Introduction to the Animal Kingdom
   Two Basal Metazoan Phyla: Porifera and Placozoa
7. Phylum Cnidaria: Anemones, Corals, Jellyfish, and Their Kin
8. Phylum Ctenophora: The Comb Jellies
9. Introduction to the Bilateria, and the Phylum Xenacoelomorpha: Triploblastic and Bilateral Symmetry Provide New Avenues for Animal Radiation
10. Phylum Platyhelminthes: Flatworms and Their Kin
11. Four Enigmatic Protostome Phyla: Rhombozoa, Orthonecatha, Chaetognatha, Gastrotricha
12. Phylum Nemertea: The Ribbon Worms
13. Phylum Mollusca: Snails, Clams, Cephalopods, and Their Kin
14. Phylum Annelida: The Segmented Worms, Sipunculans, and Echiurans
15. Two Enigmatic Spiralian Phyla: Entoprocta and Cyclophora
16. The Gnathifera: Phyla Gnathostomulida, Rotifera, and Micrognathozoa
17. The Lophophorates: Phyla Phoronida, Bryozoa, and Brachiopoda
18. The Nematoidea: Phyla Nematoda and Nematomorpha
19. The Scalidophora: Phyla Kinorhyncha, Priapula, and Loricifera
20. The Emergence of the Arthropods: Onychophora, Tardigrada, Trilobites, and the Arthropod Body Plan
22. Phylum Arthropoda
   The Hexapoda: Insects and Their Kin
23. Phylum Arthropoda
   The Myriapoda: Centipedes, Millipedes, and Their Kin
24. Phylum Arthropoda: The Chelicerata
25. Introduction to Deuterostomes, and the Phylum Echinodermata
26. Phylum Hemichordata: Acorn Worms and Pterobranchs
27. Phylum Chordata: Urochordata and Cephalochordata
28. Perspectives on Invertebrate Phylogeny

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