

**SECTION 33-1 REVIEW**

# PORIFERA

**VOCABULARY REVIEW** Define the following terms.

1. choanocyte \_\_\_\_\_  
\_\_\_\_\_
2. osculum \_\_\_\_\_  
\_\_\_\_\_
3. spicule \_\_\_\_\_  
\_\_\_\_\_
4. amoebocyte \_\_\_\_\_  
\_\_\_\_\_

**MULTIPLE CHOICE** Write the correct letter in the blank.

- \_\_\_\_\_ 1. Invertebrates are animals that lack
  - a. true tissues.
  - b. true organs.
  - c. a skeleton.
  - d. a backbone.
- \_\_\_\_\_ 2. Adult sponges are sessile, which means that they
  - a. have no gastrula stage.
  - b. attach to a surface and do not move.
  - c. use a jellylike substance for body support.
  - d. produce both eggs and sperm.
- \_\_\_\_\_ 3. Choanocytes perform all of the following functions except
  - a. pumping water into the interior of the sponge.
  - b. engulfing and digesting food that is filtered from the water.
  - c. passing nutrients to amoebocytes.
  - d. distributing nutrients throughout the rest of the body.
- \_\_\_\_\_ 4. Sponges eliminate carbon dioxide and cellular wastes by
  - a. allowing them to diffuse into the water that passes through the sponge.
  - b. excreting them into the surrounding water through pores in the body wall.
  - c. transporting them to an excretory organ that empties into the osculum.
  - d. converting them into usable carbohydrates.
- \_\_\_\_\_ 5. After a sponge egg is fertilized, it develops into a(n)
  - a. external bud.
  - b. gemmule.
  - c. larva.
  - d. gastrula.

# Modern Biology Study Guide Porifera

**Alexander V. Ereskovsky**



## **Modern Biology Study Guide Porifera:**

**The Comparative Embryology of Sponges** Alexander V. Ereskovsky, 2010-03-27 One of the major questions in the evolution of animals is the transition from unicellular to multicellular organization which resulted in the emergence of Metazoa through a hypothetical Urmetazoa The Comparative Embryology of Sponges contains abundant original and literary data on comparative embryology and morphology of the Porifera Sponges a group of lower Metazoa On the basis of this material original typization of the development of Sponges is given and the problems concerning origin and evolution of Porifera and their ontogenesis are discussed A morphogenetic interpretation of the body plan development during embryogenesis metamorphosis and asexual reproduction in Sponges is proposed Special attention is given to the analysis of characteristic features of the ontogenesis in Porifera The book pursues three primary goals 1 generalization of all existing information on individual development of sponges its classification and a statement according to taxonomical structure of Porifera 2 revealing of heterogeneity of morphogenesis and peculiarities of ontogeneses in various clades of Porifera and also their correlations with the organization both adult sponges and their larvae 3 revealing homology of morphogeneses in both Porifera and Eumetazoa testifying to the general evolutionary roots of multicellular animals and peculiar features of sponges morphogeneses and ontogenesis This book will be of interest to embryologists zoologists morphologists and researchers in evolutionary biology

**Modern Biology** James Howard Otto, 1985 **Study Guide to Accompany Invitation to Biology, Second Edition, by Helena Curtis** Vivian Manns Null, 1977 **Study Guide Essential Biology with Physiology** Edward J. Zalisko, 2003-07 Students can master key concepts and earn a better grade with the thought provoking exercises found in this study guide Study advice tables quizzes and crossword puzzles help students test their understanding of biology The Study Guide also includes references to student media activities on the Essential Biology CD ROM and Website

**The Biology of Reefs and Reef Organisms** Walter M. Goldberg, 2013-10-04 Reefs provide a wealth of opportunity for learning about biological and ecosystem processes and reef biology courses are among the most popular in marine biology and zoology departments the world over Walter M Goldberg has taught one such course for years and he marshals that experience in the pages of The Biology of Reefs and Reef Organisms Goldberg examines the nature not only of coral reefs the best known among types of reefs but also of sponge reefs worm reefs and oyster reefs explaining the factors that influence their growth distribution and structure A central focus of the book is reef construction and Goldberg details the plants and animals that form the scaffold of the reef system and allow for the attachment and growth of other organisms including those that function as bafflers binders and cementing agents He also tours readers through reef ecology paleontology and biogeography all of which serve as background for the problems reefs face today and the challenge of their conservation Visually impressive profusely illustrated and easy to read The Biology of Reefs and Reef Organisms offers a fascinating introduction to reef science and will appeal to students and instructors of marine biology comparative zoology and

oceanography *Old Questions and Young Approaches to Animal Evolution* José M. Martín-Durán, Bruno C. Vellutini, 2019-07-22 Animal evolution has always been at the core of Biology but even today many fundamental questions remain open The field of animal evo devo is leveraging recent technical and conceptual advances in development paleontology genomics and transcriptomics to propose radically different answers to traditional evolutionary controversies This book is divided into four parts each of which approaches animal evolution from a different perspective The first part chapters 2 and 3 investigates how new sources of evidence have changed conventional views of animal origins while the second chapters 4 8 addresses the connection between embryogenesis and evolution and the genesis of cellular tissue and morphological diversity The third part chapters 9 and 10 investigates how big data in molecular biology is transforming our understanding of the mechanisms governing morphological change in animals In closing the fourth part chapters 11 13 explores new theoretical and conceptual approaches to animal evolution Old questions and young approaches to animal evolution offers a comprehensive and updated view of animal evolutionary biology that will serve both as a first step into this fascinating field for students and university educators and as a review of complementary approaches for researchers

**Contributions to the Geology and Paleobiology of the Caribbean and Adjacent Areas** Peter Jung (Ph. D.), 1974 For review see J H Westerman in *Nieuwe West Indische Gids* jrg 50 1975 p 146 The Marine World Frances Dipper, 2016-04-29 The marine world is an immense three dimensional living space inhabited by marine life that varies from the mundane to the bizarre Its salty influence extends up river estuaries over seashores and inland with brine laden spray The Marine World covers all those organisms that live in on and around the ocean bringing together in a single text everything from the miniscule to the immense With chapters on marine bacteria plants fungi and protozoa as well as all the major groups of marine invertebrates plus fish reptiles mammals and birds it provides an insight into the existence and way of life of almost everything living in the ocean Each animal or plant is found in its own particular place and The Marine World encompasses principal ocean habitats and ecosystems including open water seashores deep sea coral reefs and many more Written with clear accessible text and illustrated throughout with photographs and detailed drawings The Marine World provides in depth information to provide answers for each group on what where and how via sections on identification distribution structure biology classification and conservation Biogeochemistry and Genomics of Silicification and Silicifiers Marion Gehlen, Stephen Baines, Brivaëla Moriceau, Paul Tréguer, 2019-10-16 **"Modern Problems of Poriferan Biology"** Alexander V. Ereskovsky, 1997 Biological Science, an Ecological Approach Biological Sciences Curriculum Study, 1992 A colltction of copy masters designed to supplement and extend the test material in a variety of ways Each item is keyed to the most closely related chapter **Modern Biology, 1991** Albert Towle, 1989 **Biology and Paleobiology of Modern Invertebrate Borers** Eric Jay McHuron, 1976 *Taxonomy and Paleoecology of Lyssacinosan Hexactinellida from the Upper Cretaceous (Coniacian) of Bornholm, Denmark, in Comparison with Other Postpaleozoic Representatives* Anke

Brückner, 2006 Sponges occur in three large groups The Hexactinellida the Demospongiae and the Calcarea The Hexactinellida are divided into the Hexactinosa the Lychniscosa and the Lyssacinosa The first two have a rigid skeleton whereas the latter are sponges with loose spicules sitting in their soft parts They are widely spread over the oceans today It is difficult to study Lyssacinosa due to their preferred deep sea habitat and therefore little is known about their way of living The sedimentology and the faunal composition of the Arnager Limestone ca 88 Ma aside from the sponges is discussed Together with the sponge fauna a three dimensional picture can be drawn to show the conditions and the nature of the habitat the Lyssacinosa lived in *Canadian Journal of Zoology*, 2006

**Books and Pamphlets, Including Serials and Contributions to Periodicals** Library of Congress. Copyright Office, 1968 **Learning Directory**, 1972 **Atlas of Marine Invertebrate Larvae** Michael J. Boyle, Craig M. Young, Mary A. Sewell, 2025-04-16 Atlas of Marine Invertebrate Larvae Second Edition covers the origins and history of marine larval science contemporary state of the art approaches to larval development and biology and the highest quality images and schematics showing the broadest diversity of marine larvae in the animal tree of life This book illustrates larval body plans the anatomy of their organ systems muscular sensory digestive including distinct ciliation patterns that facilitate swimming and the complex metamorphic changes they undergo between different larval and growth stages Each chapter contains in text references that direct readers to both historical and contemporary research on the forms functions behaviors and biogeographical distributions of marine larvae This book is a valuable and foundational resource for biologists across various disciplines including biodiversity biogeography and developmental biology Ecologists taxonomists oceanographers and environmental scientists also benefit from the complete coverage of marine larval forms offered by this book Additionally the broad scope and phyletic coverage of marine biodiversity presented in this atlas is ideal for students in oceanography and marine biology animal development biological oceanography and invertebrate zoology Covers every major marine invertebrate clade within the Metazoa Includes an expanded introductory chapter on the biology ecology and roles of larvae in marine food webs and the movements of marine invertebrate species within the world's oceans Provides complete updates to each chapter including condensed comparative background information on taxon specific development and life history patterns Features detailed anatomical schematics and drawings accompanied by compound confocal and scanning electron micrographs for multiple recognized clades within each phylum Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office Library of Congress. Copyright Office, 1969 **Russian Journal of Marine Biology**, 2006

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