



COMPARATIVE PHYSIOLOGY: ANNUAL REPRODUCTIVE CYCLES OF MARINE INVERTEBRATES^{1,2}

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Interest in the study of the physiology of reproduction is of relatively recent date and has developed largely in the last forty years. Interest in the physiology of reproduction of the invertebrates is of even more recent date. In fact, the most complete and up-to-date compendium of comparative animal physiology (1) omits the subject entirely. Yet it is known that in the invertebrate world exists a diversity of modes of reproduction from primitive to highly evolved, asexual³ as well as sexual (2, 3, 125, 126). Here is to be seen, so to speak, the evolution of the animal reproductive process, a procession of nature's fascinating experiments. Investigators have to some extent realized the opportunities for such studies, and many articles on the physiology of reproduction in invertebrates are widely scattered in the literature in a variety of journals. Neglect of discussion of the physiology of the reproductive processes of the invertebrates, then, has not been for lack of material but rather for lack of a synthesis of the existing literature.

It would be impossible in a single brief review to cover completely the physiology of invertebrate reproduction, desirable as it might be. Rather, this review considers only the annual reproductive cycles of marine invertebrates, with special emphasis on papers which include interesting viewpoints, experimental approaches, or provocative material.

A few general references which give considerable information on annual reproductive cycles of marine invertebrates are: the *Handbook of Biological Data* (4), in which is found a table containing breeding seasons and related data for invertebrates from various places; a book on methods for obtaining and handling marine eggs and embryos (5) of East Coast invertebrates (particularly for animals from the Woods Hole area); a paper (6) on New Zealand invertebrates; two books (7, 8) and several papers (9, 10) on West

¹ The information in this article covers the literature as far back as seemed feasible to go and includes citations up to August, 1958. Wherever possible, reference is given to key review articles which give references to older literature. If important or interesting work was omitted, it was unintentional.

² I am indebted to the staff of the Stanford Biological Libraries: Mr. F. Falconer, Chief Science Librarian, Miss Joanne Dandois, and Mr. Michael Sadoski without whose help it would have been impossible to make the extensive bibliographic search.

³ Asexual reproduction occurs in many groups of animals, among them the Protozoa, Porifera, Coelenterata, Platyhelminthes, Rotifera, Tunicata, and certain Annelida (Polychaeta). These are dealt with in general works (2, 3) on the invertebrates. Considerable research on polychaetes is referred to by Durchon (123). *Dodecaceria*, one of the most interesting of the polychaetes, has a remarkable capacity for asexual reproduction, and Martin's paper (125) and references cited by him should be consulted for information.

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Table of Contents Marine Invertebrates Comparative Physiology

1. Understanding the eBook Marine Invertebrates Comparative Physiology
 - The Rise of Digital Reading Marine Invertebrates Comparative Physiology
 - Advantages of eBooks Over Traditional Books
2. Identifying Marine Invertebrates Comparative Physiology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Marine Invertebrates Comparative Physiology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Marine Invertebrates Comparative Physiology
 - Personalized Recommendations
 - Marine Invertebrates Comparative Physiology User Reviews and Ratings
 - Marine Invertebrates Comparative Physiology and Bestseller Lists

5. Accessing Marine Invertebrates Comparative Physiology Free and Paid eBooks
 - Marine Invertebrates Comparative Physiology Public Domain eBooks
 - Marine Invertebrates Comparative Physiology eBook Subscription Services
 - Marine Invertebrates Comparative Physiology Budget-Friendly Options
6. Navigating Marine Invertebrates Comparative Physiology eBook Formats
 - ePub, PDF, MOBI, and More
 - Marine Invertebrates Comparative Physiology Compatibility with Devices
 - Marine Invertebrates Comparative Physiology Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Marine Invertebrates Comparative Physiology
 - Highlighting and Note-Taking Marine Invertebrates Comparative Physiology
 - Interactive Elements Marine Invertebrates Comparative Physiology
8. Staying Engaged with Marine Invertebrates Comparative Physiology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Marine Invertebrates Comparative Physiology
9. Balancing eBooks and Physical Books Marine Invertebrates Comparative Physiology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Marine Invertebrates Comparative Physiology
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Marine Invertebrates Comparative Physiology
 - Setting Reading Goals Marine Invertebrates Comparative Physiology
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Marine Invertebrates Comparative Physiology
 - Fact-Checking eBook Content of Marine Invertebrates Comparative Physiology
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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