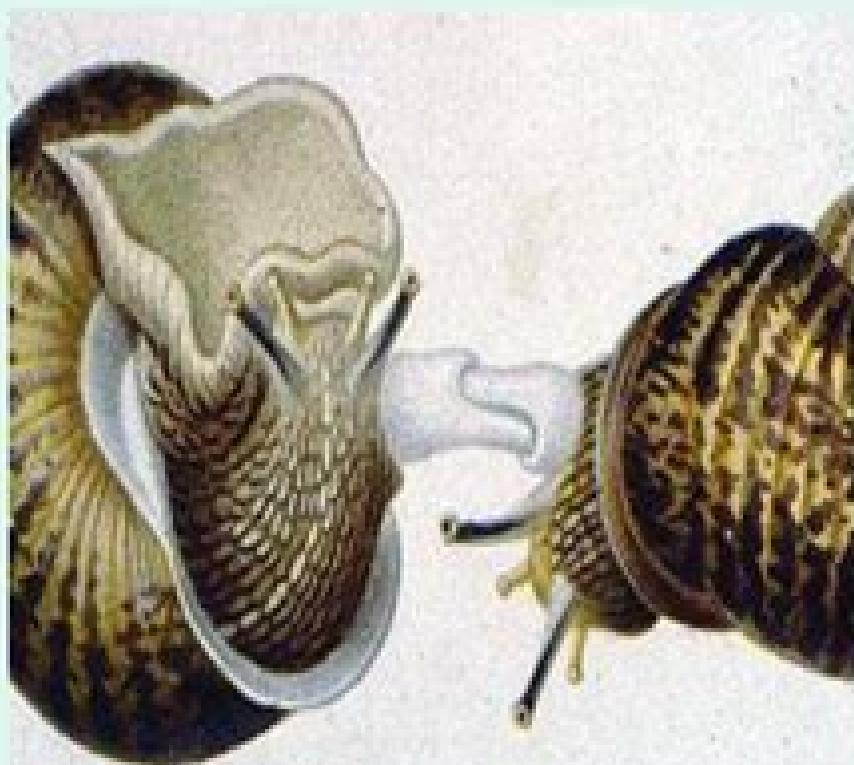


# Reproduction



- Most have separate sexes and external fertilization
- Most have trochophore larva ( swim in open water and feed on tiny floating plants )
- In tentacled mollusks and some snails fertilization is internal
- Some snails and oysters are hermaphroditic and engage in cross fertilization

# The Mollusca Reproduction

**Karl M. Wilbur**

## **The Mollusca Reproduction:**

**Biology and Evolution of the Mollusca, Volume 1** Winston Frank Ponder,David R. Lindberg,Juliet Mary Ponder,2019-11-18 Molluscs comprise the second largest phylum of animals after arthropods occurring in virtually all habitats Some are commercially important a few are pests and some carry diseases while many non marine molluscs are threatened by human impacts which have resulted in more extinctions than all tetrapod vertebrates combined This book and its companion volume provide the first comprehensive account of the Mollusca in decades Illustrated with hundreds of colour figures it reviews molluscan biology genomics anatomy physiology fossil history phylogeny and classification This volume includes general chapters drawn from extensive and diverse literature on the anatomy and physiology of their structure movement reproduction feeding digestion excretion respiration nervous system and sense organs Other chapters review the natural history including ecology of molluscs their interactions with humans and assess research on the group Key features of both volumes up to date treatment with an extensive bibliography thoroughly examines the current understanding of molluscan anatomy physiology and development reviews fossil history and phylogenetics overviews ecology and economic values and summarises research activity and suggests future directions for investigation Winston F Ponder was a Principal Research Scientist at The Australian Museum in Sydney where he is currently a Research Fellow He has published extensively over the last 55 years on the systematics evolution biology and conservation of marine and freshwater molluscs as well as supervised post graduate students and run university courses David R Lindberg is former Chair of the Department of Integrative Biology Director of the Museum of Paleontology and Chair of the Berkeley Natural History Museums all at the University of California He has conducted research on the evolutionary history of marine organisms and their habitats on the rocky shores of the Pacific Rim for more than 40 years The numerous elegant and interpretive illustrations were produced by Juliet Ponder    *The Mollusca* A. S. Tompa,N. H. Verdonk,J. A. M. van den Biggelaar,1984    **The Mollusca** A. S. Tompa,N. H. Verdonk,J. A. M. van den Biggelaar,1984    **The Biology of the Mollusca** R. D. Purchon,2013-10-22 Reviews the most important literature on the functional morphology and natural history of molluscs over a period of half a century from 1925 to the present day and draws extensively upon authoritative papers published mostly in the English language in a large number of international journals during this period By these means it is hoped to provide an anthology of what is most interesting in the literature in a number of selected topics Appendices give some practical assistance for the dissection of selected examples    **Molluscan Reproduction** Norman William Runham,1996    [The Mollusca: Reproduction](#) ,1983

**Reproduction** A. S. Tompa,2013-10-22 The Mollusca Volume 7 Reproduction presents the significant features of reproduction for one of the significant major molluscan groups This book reviews the reproductive biology of land snails which offers the basis for making fascinating comparisons with other terrestrial groups in illustrating how evolutionary various groups solved their common problem of laying eggs Organized into six chapters this volume begins with an overview

of the reproductive biology of prosobrach gastropods This text then provides a comparative morphology of land snail reproductive anatomy Other chapters consider the endocrine control of the female reproductive activity of *Lymnaea stagnalis* This book discusses as well the transition in intraspecific and interspecific sexuality The final chapter deals with cephalopod reproductive biology This book is a valuable resource for readers who are in need of more appropriate animal systems for solving research problems pertaining to general reproduction cytology sex determination biochemistry gamete biology neuroendocrinology and evolutionary biology    Reproductive Biology of Invertebrates, Accessory Sex Glands ,1993-03-02  
Reproductive Biology of Invertebrates Volume III Accessory Sex Glands Edited by K G Adiyodi Accessory Sex Glands is the third volume in the encyclopaedic series and provides very valuable information some hitherto unpublished on the distribution structure origin physiology biochemistry pharmacology and evolution of the accessory sex glands in different groups of invertebrates Volumes I and II of this series published by Wiley have given detailed accounts of the structure origin composition and physiology of female and male gametes and also provided some information on the mechanisms controlling their production The secretions of accessory sex glands are indispensable for several key aspects of gamete physiology and for successful fertilization and development in many internally fertilizing invertebrates Interestingly enough accessory sex gland secretions are produced in some species at least under the influence of gonadotrophic hormones as are the gametes themselves The data on invertebrate accessory sex glands are scattered in various journals and have not been so far collected critically evaluated and published in book form This volume thus fills a void and serves as an indispensable corollary and companion to the two volumes that have already appeared on gametology in the series Contents Series Preface Preface to Volume III Systematic Resume of the Invertebrates Platyhelminthes Turbellaria S S Guraya and V R Parshad Nemertina M Gontcharoff Gnathostomulida Marlene Mainitz Rotifera John J Gilbert Gastrotricha W D Hummon and M R Hummon Nematoda L A Fitzgerald and W Eugene Foor Acanthocephala David W T Crompton Mollusca N W Runham Annelida K G Adiyodi Onychophora Hilke Ruhberg and Volker Storch Arthropoda Crustacea K G Adiyodi and G Anilkumar Arthropoda Insecta Cedric Gillott Arthropoda Myriapoda J M Demange Pentastomida John Riley Species Index Subject Index

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