

THE MOLLUSCA

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ECOLOGY

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The Mollusca Volume 6 Ecology

**Winston Frank Ponder, David R.
Lindberg, Juliet Mary Ponder**



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The Mollusca Peter W. Hochachka, 2014-06-28 **The Mollusca Mollusca** Peter W. Hochachka, 2014-05-10 **The Mollusca Volume 1 Metabolic Biochemistry and Molecular Biomechanics** provides information pertinent to the advances in the traditional areas of biochemistry and in other developed areas that have become a part of molluscan biochemistry. This book discusses the developments in the various aspects of molecular biomechanics and environmental biochemistry. Organized into 11 chapters, this volume begins with an overview of the phylum Mollusca. This text then provides information about the general features of the main classes and their evolution, the anatomical organization of mollusks, and a classification of the primary taxonomic groups of mollusks. Other chapters consider the functional mechanical properties of two protein rubbers found in molluscan connective tissues. This book discusses as well the mechanical properties of molluscan mucins. The final chapter deals with the significance of quinone tanning in mollusks. This book is a valuable resource for researchers of the Mollusca and other phyla, as well as to teachers and qualified graduate students. Biochemists and physiologists will also find this book useful. *The Mollusca*, 2012-12-02 **The Mollusca Volume 5 Physiology Part 2** focuses on the biochemistry and physiology of mollusks. The selection first elaborates on the feeding biology of gastropods and feeding and digestion in Bivalvia and cephalopods. Discussions focus on feeding, digestion, feeding and digestive rhythms, feeding behavior, ontogeny of gastropod feeding biology, and feeding mechanisms. The text then examines the circulatory systems of gastropods and bivalves and circulation in cephalopods, including blood vessels and extracellular space, chemical control of the circulation, fluid mechanics of the circulation, and nature and anatomy of the circulatory system. The text takes a look at ionic regulation and water balance, excretion, and molluscan immunobiology. Topics include internal defenses of gastropods, bivalves, cephalopods, and Polyplacophorans, Monoplacophora, Cephalopoda, and Scaphopoda. The selection is a vital reference for researchers interested in the biochemistry and physiology of mollusks. *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 Karl M. Wilbur, 1983

Paleontology and Neontology of Cephalopods M. R. Clarke, E. R. Trueman, 2013-10-22 Paleontology and Neontology of Cephalopods examines information that throws new light on the evolution of coleoids This book is part of a multivolume work The Mollusca which attempts to provide comprehensive treatment of major areas of molluscan research The Mollusca is intended to serve several disciplines zoology biochemistry physiology and paleontology It will prove useful to researchers and to all others with interests in mollusks The book begins with a review of the main features of cephalopod evolution This is followed by separate chapters on the evolution of the gladius in coleoids the buccal mass of Cephalopoda beaks of living coleoid Cephalopoda cephalopod hooks statoliths of cephalopods buoyancy and locomotion in recent cephalopods and evolution of the cephalopod brain and cephalopod statocyst Subsequent chapters deal with the photophore structure and evolution within the Euprymaloidea the interrelationships of genera within the Ommastrephidae evolutionary pathways traversed by the cephalopod family Cranchiidae the cephalopod fauna of the European Mediterranean and the evolution of recent cephalopods

Oceanography and Marine Biology: An Annual Review: Volume 38 Margaret Barnes, R N Gibson, R. N. Gibson, 2003-09-02 A new edition of this thorough comprehensive and respected review source for oceanographers and marine biologists A must for every station institute and university involved with marine biology

Physiology A. S. M. Saleuddin, Karl M. Wilbur, 2013-10-22 The Mollusca Volume 4 Physiology Part 1 provides an overview of the state of knowledge in molluscan physiology It is part of a multivolume treatise that covers the fields of biochemistry physiology neurobiology reproduction and development evolution ecology medical aspects and structure The Mollusca is intended to serve a range of disciplines biological biochemical paleontological and medical As a source of information on the current status of molluscan research it should prove useful to researchers of the Mollusca and other phyla as well as to teachers and qualified graduate students The book begins with a discussion of molluscan muscle cells and intercellular connections Separate chapters follow on the neuromuscular transmission and excitation contraction coupling in mollusks the biochemical and structural aspects of molluscan muscle molluscan locomotion cellular mechanisms of periostracum formation shell formation and repair molluscan endocrinology and physiological energetics of marine mollusks

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Cumberland and Tennessee Rivers Navigation Feasibility Report, Kentucky Lock Addition ,1992

Neurobiology and

Behavior A. O. Dennis Willows, 2013-10-22 The Mollusca Volume 8 Neurobiology and Behavior Part 1 provides an overview of the state of knowledge in molluscan neurobiology and behavior It is part of a multivolume treatise that covers the areas of structure and function metabolic biochemistry molecular biomechanics environmental biochemistry physiology ecology reproduction and development neurobiology and behavior and evolution The Mollusca is intended to serve a range of disciplines zoology biochemistry physiology and paleontology It will prove useful to researchers and to all others with interests in molluscs The book contains four chapters and begins with a chapter on the behavior of gastropod mollusks Subsequent chapters deal with learning in gastropod mollusks the neuronal control of behavior in gastropods and the development and plasticity of molluscan neurons

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