

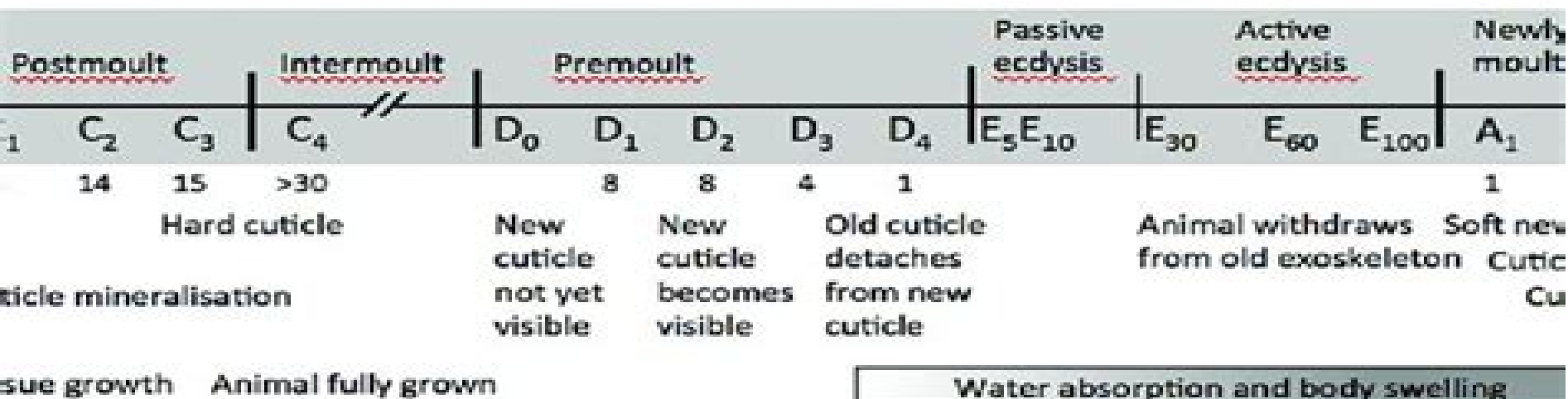
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Endocrine Control In Crustaceans

Enrique M. Rodriguez, Tomás A. Luppi



Endocrine Control In Crustaceans:

Endocrine Control in Crustaceans David B. Carlisle, Francis Gerald William Knowles, **Reproductive Biology of Crustaceans** Elena Mente, 2008-01-04 Crustaceans adapt to a wide variety of habitats and ways of life They have a complex physiological structure particularly with regard to the processes of growth molting metabolic regulation and reproduction Crustaceans are ideal as model organisms for the study of endocrine disruption and stress physiology in aquatic invertebrates This book *The Biology of Crustacea* Bozzano G Luisa, 2012-12-02 The Biology of Crustacea Volume 3 Neurobiology Structure and Function focuses on fundamental aspects of crustacean neurobiology from the organization of the central nervous system CNS and neuromuscular systems to synapses and neurotransmitters nerve and muscle hormones and neurosecretion photoreception chemoreception and thermoreception and mechanoreception It also looks at systematics phylogeny biogeography embryology genetics ecology behavior pathobiology comparative morphology growth and sex determination of crustaceans Organized into nine chapters this volume begins with an overview of the crustacean CNS with emphasis on neural organization of the brain as well as neural organization in the optic lobes and in the thoracic and abdominal ganglia It then discusses the organization and components of neuromuscular systems mechanisms of release of neurotransmitters at synapses morphology and excitation contraction coupling in muscle and development of nerve muscle neuromuscular synapses and neural circuits It explains the neural control of neurosecretion in crustaceans anatomy of photoreceptors and accessory structures in the compound eye and chemosensory organization The book concludes with a chapter on crustacean mechanoreceptors and their evolution This book will be of interest to zoologists paleontologists ecologists physiologists endocrinologists morphologists pathologists biologists and other scientists engaged in basic or applied research on various aspects of crustacean biology **Text Book of Crustacea** Amita Saxena, 2005 Crustaceans are distinguished from myriapods and insects by many more traits A striking difference is seen in leg structure The morphological characteristics Taxonomy Anatomy and Physiology of various crustaceans including vital systems are the major part of this book Varieties of Crustaceans have its economic values in captures and culture practices so their basic nature structures functioning details are needed Those lines are touched in this book Contents Introduction Crustacea Taxonomy of Crustacea Body Plan and Appendages Digestive System Excretion and Osmoregulation Musculature Respiratory System Circulatory System Nervous System Sense Organs Endocrine Gland and Hormones Reproductive System Economic Importance Few Crustaceans **Recent Advances in Crustacean Endocrinology** Haihui Ye, Marcy N. Wilder, J. Sook Chung, Heinrich Dirksen, 2021-09-15 **Chemical Communication in Crustaceans** Thomas Breithaupt, Martin Thiel, 2010-11-25 The crustaceans are ecologically and economically important organisms They constitute one of the dominant invertebrate groups on earth particularly within the aquatic realm Crustaceans include some of the preferred scientific model organism profitable aquaculture specimen but also invasive nuisance species threatening native animal

communities throughout the world Chemoreception is the most important sensory modality of crustaceans acquiring important information about their environment and picking up the chemical signals that mediate communication with conspecifics Significant advances have been made in our understanding of crustacean chemical communication during the past decade This includes knowledge about the identity production transfer reception and behavioral function of chemical signals in selected crustacean groups While it is well known that chemical communication is an integral part of the behavioral ecology of most living organisms the intricate ways in which organisms allocate chemicals in communication remains enigmatic How does the environment influence the evolution of chemical communication What are the environmental cues that induce production or release of chemicals How do individuals economize production and utilization of chemicals What is the importance of molecule specificity or mix of a molecule cocktail in chemical communication What is the role of chemical cues in multimodal communication How does the ontogenetic stage the sex or the physiological status of an individual affect its reaction to chemical cues Many of these questions still represent important challenges to biologists

Crustacean Egg Production Armand Kuris, 2020-10-28 This title discusses egg formation release and development variations in life history patterns population and fisheries aspects regarding crustaceans *Endocrine Control in Crustaceans. By D.B. Carlisle ... and Sir Francis Knowles* David Brez CARLISLE, Sir Francis Gerald William KNOWLES, 1959

Sexual Biology and Reproduction in Crustaceans Thanumalaya Subramoniam, 2016-09-27 Sexual Biology and Reproduction in Crustaceans covers crustacean reproduction as it deals with the structural morphology of the gamete producing primary sex organs such as the testis and ovary the formation and maturation of gametes their fusion during fertilization and embryonic development that lead to the release of larvae Constituting a diverse assemblage of animals crustaceans are best known by their common representatives such as shrimps lobsters and crabs but also include many more less familiar but biologically important forms This work covers the variety of ways in which both male and female gametes are produced by evolving different sexual systems in crustaceans the range of reproductive systems and the accordingly and highly diverse mechanistic modes of sex determination In addition the book features such topics as genetic and environmental determinants in sex determination pattern variability of mechanisms of fertilization among different species the origin of different mating systems the associated mating and brooding behaviors and the adaptive ability to different environmental conditions with discussion on the evolutionary ecology of social and sexual systems in certain species which have shown eusocial tendencies similar to social insects Marine species occupying diversified ecological niches in tropical and temperate zones reproduce under definitive environmental conditions Therefore reproductive ecology of different crustaceans inhabiting different ecological niches also constitutes another important aspect of the work along with yolk utilization and embryogenesis leading to release of different larval forms which reflect on their aquatic adaptability Forms a valuable source of recent references on the current research in crustacean reproductive physiology Covers various mating

and breeding systems providing illustrative examples for sexual selection parental care of developing eggs and embryos and the evolution of other reproductive behaviors Features contributions written in the form of review articles enabling readers to not only gain information in the respective subject but also help them stimulate ideas in their chosen field of research Includes a glossary created by the author to define technical terms Demonstrates the ability of crustacean species to serve as useful model systems for other organisms to investigate issues related to sexual conflict mate choice and sperm competition Discusses techniques in endocrine research to help researchers in aquaculture develop protocols in the control of reproduction

Physiology Ernest S. Chang, Martin Thiel, 2015-03-27 The first comprehensive overview of comparative physiology of crustaceans in two decades bringing crustacean biology up to the 21st century Neohelice granulata, a Model Species for Studies on Crustaceans, Volume II Enrique M. Rodriguez, Tomás A. Luppi, 2020-05-20 This book condenses more than three decades worth of research and published information about the crab *Neohelice granulata* It also serves as a reference book for any researcher studying the biology of crustaceans and even a reference for other disciplines in which the species serves as a representative model The study will also be useful to undergraduate and postgraduate students seeking to improve their knowledge of crustacean biology The topics covered by this second volume include neuroanatomy visual system memory and reflexes anatomy and physiology of the reproductive system metabolism and digestion claw muscles gas and ionic exchange and endocrine disruption

The Crustacean Nervous System Konrad Wiese, 2013-04-17 Crustacean preparations have been successfully used for more than 50 years to investigate the principles which enable nerve cells and neural circuitry to perform in a wide variety of functions The proud record of information of general significance obtained from crayfish and lobster nervous systems testifies that the use of an experimental system precisely matching theoretical and experimental requirements of a measurement is an essential part of the success In some respects the secondarily diversified vertebrate and mammalian nervous systems pose severe obstacles to experimentation and measurement whereas the crustacean nervous system recommends itself by being composed of individual neurons of unique morphology and physiology which can be used repeatedly in several preparations Moreover a restricted number of invariantly displayed behaviors enable the experimenter to correlate neuron activity with parts of the behavior easier Experts use these advantages to focus on a well defined neuron and mechanism and to take a convincing measurement within a minimum amount of time In this book distinguished neurobiologists the leading experts in the field have joined efforts to present research using crustacean experimental systems Thus they have contributed comprehensive information regarding a nervous system other than that of vertebrates and mammals that of crustaceans The accumulated knowledge on the crustacean nervous system shows that it is clearly divergent in evolution but functions in a similar way to neuronal circuitry found in the vertebrate system and can be used to interpret it

Crustaceans Valerio Zupo, 2022-12-23 Anyone who attempts to study crustaceans soon realizes that there are many science fields involved As a major subphylum of Arthropods the largest phylum in the animal kingdom

crustaceans exhibit an extraordinary diversity of taxa shapes physiology and styles of life These invertebrates play key ecological roles in all aquatic environments while only a few species are adapted to sub aerial and humid environments Their evolutionary success is not only due to a wide set of morphological and biological adaptations but also because of some key features e g their peculiar endocrinology In addition crustaceans are characterized by chemical and optical sensors deserving attention because they play important biological roles linked to chemical ecology issues and their functioning is impaired by global changes and ocean acidification Several crustaceans have critical roles in aquatic ecology e g copepods in the plankton amphipods and isopods in the benthos Select species are technologically important as models for scientific research Furthermore aquaculture of several decapod crustaceans is important for providing high protein products to meet the need for nutrition Understanding the physiology and ecology of crustaceans is important to fulfill these diverse purposes and practical applications In this book leading world scientists have pooled their excellence to provide vibrant and expert views of fundamental biological and physiological mechanisms involving crustaceans To this end a comprehensive view of crustacean endocrinology and reproductive ecology is provided along with information about their molecular physiology adaptations aquaculture and welfare In particular we attempted to span the breadth of their adaptations presenting behavioral and physiological peculiarities considering key groups of crustaceans to describe general features and global biodiversity This book is offered as a tool for students and scientists in various fields of physiological ecological biotechnological and aquacultural research

NOAA Technical Report NMFS. ,1984 **Molecular Biomineralization** Werner E. G. Müller,2011-08-30 The concept of biomineralization signifies mineralization processes that take place in close association with organic molecules or matrices The awareness that mineral formation can be guided by organic molecules notably contributed to the understanding of the formation of the inorganic skeletons of living organisms Modern electron microscopic and spectroscopic analyses have successfully demonstrated the participation of biological systems in several mineralization processes and prominent examples include the formation of bio silica in diatoms and sponges This insight has already made the application of recombinant technology for the production of valuable inorganic polymers such as bio silica possible This polymer can be formed by silicatein under conditions that cannot be matched by chemical means Similarly the efforts described in this book have elucidated that certain organisms bacteria in deep sea polymetallic nodules and coccoliths in seamount crusts are involved in the deposition of marine minerals Strategies have already been developed to utilize such microorganisms for the biosynthesis and bioleaching of marine deposits Moreover studies reveal that bio polymers enhance the hydroxyapatite formation of bone forming cells and alter the expression of important regulators of bone resorption suggesting a potential for bone regeneration and treatment prevention of osteoporosis *Biotechnology of Penaeid Shrimps* A.D. Diwan,2021-01-31 The main objective of this book is to collect comprehensive information on various aspects of physiology and biotechnology focusing mainly on reproduction growth disease control and therapeutics of penaeid shrimps

The book covers fundamental aspects and few applied aspects of biotechnology concerning basic genomics and proteomics reproduction growth and disease control and therapeutics of shrimp This information will be quite useful not only to the aqua farmers mariculture experts of the shrimp industry to augment quality shrimp production in captive condition but also to the faculties and students working in different organizations involved in teaching and research activities in shrimp biotechnology

Note T F does not sell or distribute the Hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka **Recent Advances in Marine Biotechnology, Vol. 10** Milton Fingerman,2003-01-10 This book presents the most recent information on the molecular genetics of marine organisms It provides the reader a major thrust toward a better understanding of the present state of research on the molecular genetics of marine organisms **Aquaculture** Gilbert Barnabe,2018-05-08 This unique book introduces the biological and ecological basis of the production process in water and the biology of cultured species It bridges the gap between research data and aquaculture techniques and covers problems arising in aquaculture production such as filtering molluscs It also introduced modern aspects of oceanography that are important for understanding the production process The book starts with a section dedicated to the production of living material and matter in the aquatic environment It then goes on to explore in detail the biological basis of mollusc crustacean and fish cultures and the reproduction and nutrition of bivalve molluscs Also discussed are the intensive and extensive aquaculture producing processes in fresh and marine waters and finally the pathology reared animals Up to date data are provided and explained to the student using graphs and copious illustrations The work is especially orientated toward the student reader and provides a comprehensive and authoritative text on the subject *Structure and Chemistry (Part E)* Atta-ur Rahman,1997-09-30 Structure and Chemistry Part E **Encyclopedia of Animal Behavior** ,2009-04-01 The Encyclopedia of Animal Behavior Three Volume Set has engaged with great success the efforts of many of the best behavioral biologists of the 21st century Section editors drawn from the most accomplished behavioral scientists of their generation have enrolled an international cast of highly respected thinkers and writers all of whom have taken great care and joy in illuminating every imaginable corner of animal behavior This comprehensive work covers not only the usual topics such as communication learning sexual selection navigation and the history of the field but also emerging topics in cognition animal welfare conservation and applications of animal behavior The large section on animal cognition brings together many of the world s experts on the subject to provide a comprehensive overview of this rapidly developing area Chapters relating to animal welfare give a full view of behavioral interactions of humans with companion animals farm animals and animals in the wild The key role of animal behavior in conservation biology receives broad attention including chapters on topics such as the effects of noise pollution captive breeding and how the behavioral effects of parasites interacts with conservation issues Animal behavior in environmental biology is highlighted in chapters on the effects of endocrine disruptors on behavior and a large number of chapters on key species such as wolves chimpanzees hyenas and sharks Clear accessible writing

complements a wealth of information for undergraduate college students about the essential concepts of animal behavior and the application of those concepts across the field. In depth coverage of concepts, methods, and exemplar organisms serves the needs of graduate students and professionals in the field. From the use of behavior in assessing the welfare of pigs to the social behavior of insects, from animal empathy to bat brains, this authoritative reference, with its in depth introductory articles, rich array of illustrations, interactive cross referenced links, and numerous suggested readings, can guide the student or the professional to an expanded appreciation of the far flung world of animal behavior. An invaluable tool for teaching and a source of enrichment and detail for any topic covered in an animal behavior course, the Encyclopedia of Animal Behavior is the definitive reference work in its field and will be for years to come. Comprehensive work which covers the usual topics along with emerging areas of animal behavior. This encyclopedia contains clear, accessible writing and is well illustrated, including an online video complementing a wealth of information. As an online reference, this work will be subject to periodic updating. This ensures that the work always remains current. Contains in depth introductions to the material that make each well illustrated section come alive with the best the new content the discipline has to offer. Glossary includes a compendium of behavioral terms that form a succinct mosaic of virtually every concept and phenomenon related to animal behavior. Section editors drawn from around the world represent the best and the brightest among today's behavioral biologists and have recruited a broad range of internationally recognized experts. Editors in Chief are experienced scientists and writers who between them have authored or edited eight books and teach courses in animal behavior at their respective universities.

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