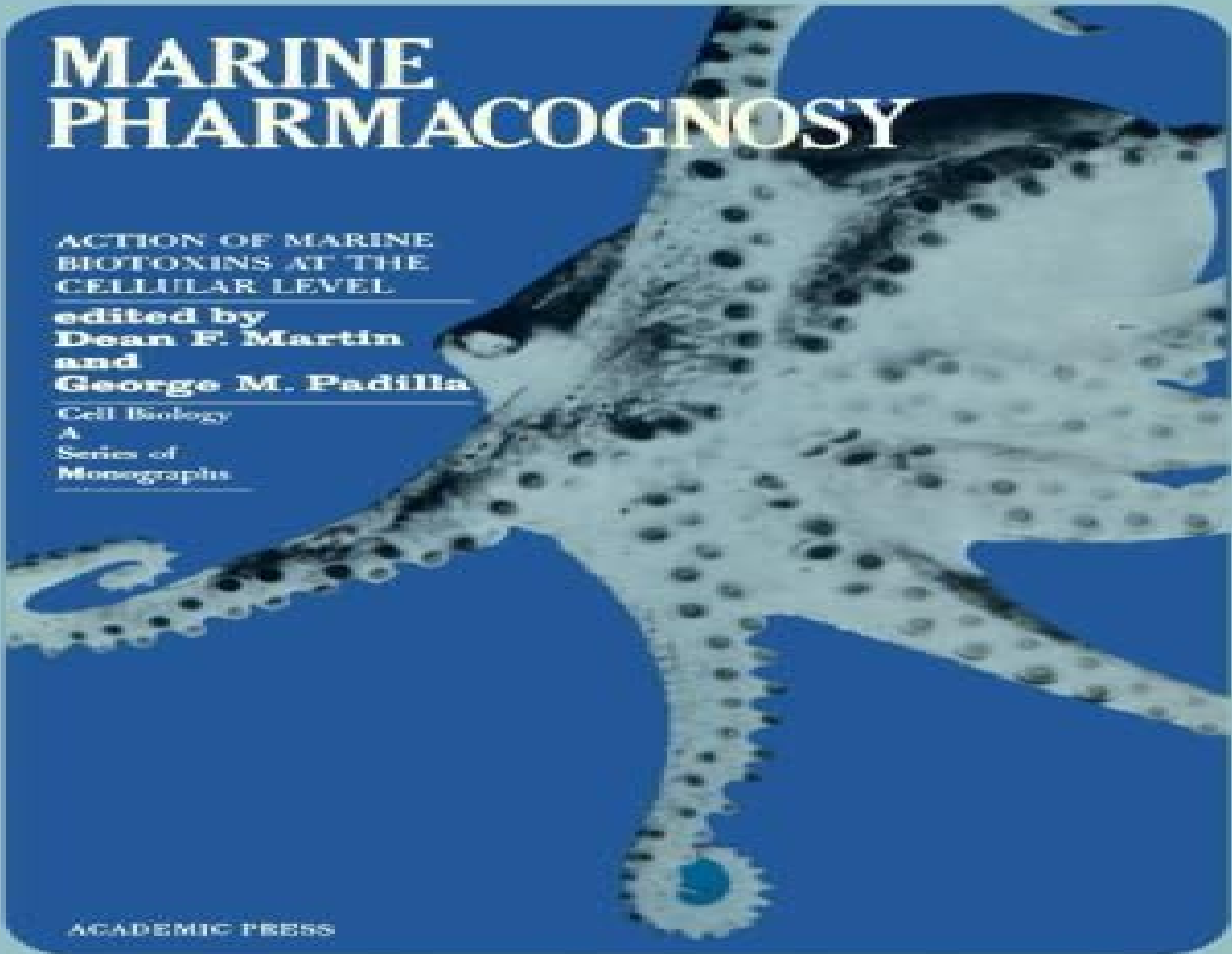


MARINE PHARMACOGNOSY



ACTION OF MARINE
BIOTOXINS AT THE
CELLULAR LEVEL

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Marine Pharmacognosy Action Of Marine Biotoxins At The Cellular Level

Joseph Erwin



Marine Pharmacognosy Action Of Marine Biotoxins At The Cellular Level:

Marine Pharmacognosy Dean Martin, 2012-12-02 *Marine Pharmacognosy Action of Marine Biotoxins at the Cellular Level* focuses on the study and utilization of marine drugs. This book discusses the methods of isolation and characterization of bioactive agents, bioassays, microcalorimetry, voltage clamp techniques, toxin-induced alterations, measurement of muscle contraction, and kinetics of toxin-induced hemolysis. Organized into nine chapters, this book starts with an overview of the use and usefulness of marine bioactive agents as research tools. This text then examines the pharmacological effects of maculotoxin, which are similar to those of tetrodotoxin and saxitoxin. Other chapters consider the role of choline in general cellular processes. This book discusses as well the rate of hemolysis as a function of prymnesin concentration. The final chapter deals with the features of the prymnesin membrane interaction. This book is a valuable resource for pharmacologists, bacteriologists, zoologists, physiologists, botanists, and oceanographers. Scientists involved in biological oceanography and comparative physiology will also find this book useful.

Marine Pharmacognosy; Action of Marine Biotoxins at the Cellular Level Dean Frederick Martin, 1973

Drugs and the Cell Cycle A Zimmerman, 2012-12-02 *Drugs and the Cell Cycle* provides an introduction to fundamental principles and studies on the mechanisms of drug action on proliferating cells. The book is intended to reduce the time lag between observation and practical application. Comprised of 10 chapters, the book describes the plant alkaloids, alkylating agents, mercurials, adrenergic agents, radiomimetics, narcotics, hallucinogens, mitogens, hepatotoxins, antibiotics, and antimetabolites of various types. The text also emphasizes the drugs used in cancer chemotherapy and the in vitro and in vivo cell systems of bacteria, protozoa, sea urchins, and mammals. The concepts are presented with comprehensive illustrations and tables to help readers obtain more efficient understanding and learning. The information and concepts presented in this volume will be of great interest to scientists and students in many disciplines, including physiology, pharmacology, and oncology, as well as cellular, molecular, and developmental biology. The book will also fill the gap between drug experimental observations and their potential relevance to man.

Cell Cycle Regulation James R. Jr. Jeter, 2012-12-02 *Cell Cycle Regulation* describes the interaction of the nuclear genome, the cytoplasmic pools, the organelles, the cell surface, and the extracellular environment that govern the cell cycle regulation. Comprised of 12 chapters, this book includes cell cycle regulation around nuclear chromatin modulation and some aspects of chromatin modification and its effects on gene expression. The opening chapters describe the macromolecular structure of chromatin subunits and the types and kinds of postsynthetic modifications occurring on histones, such as acetylation, methylation, and phosphorylation. The subsequent chapter deals extensively on histone phosphorylation, especially histone H1, H1M, H2A, and H3 during the cell cycle. Another chapter describes a selective histone leakage from nuclei during isolation, accounting for the role of histone acetylation and phosphorylation in gene expression. This book goes on examining the assembly of microtubules and structural analysis on the regulatory role of calcium into a pattern for mitosis regulation. Other chapters discuss the methods used to

measure intracellular pH changes as a function of the cell cycle of *Physarum* and the quantitative and qualitative changes taking place during the various phases of the cell cycle The use of mammalian cell fusion to study cell cycle regulation and the protein synthesis regulation during the cell cycle in *Chlamydomonas reinhardtii* are then discussed The final chapters focus on the regulation of expression of an inducible structural gene during the cell cycle of the green alga *Chlorella* The chapters provide evidence for a model of positive and negative oscillatory control of inducible gene expression An analysis of the expression of cytoplasmic genes as a function of the cell cycle using pedigrees of a large number of individual yeast cells is also included This book will appeal to a wide variety of life scientists and to molecular cellular and developmental biologists

Eukaryotic Cell Genetics John Morrow, 2012-12-02 Eukaryotic Cell Genetics reviews the state of knowledge in somatic cell genetics The book begins by discussing the development of somatic cell genetics focusing on the estimation of mutation rates in mammalian cells with frequent reference to the use of drug resistance as a selective character It then considers some of the specific properties of such variants in order to understand their molecular basis The subsequent chapters examine the properties of specific types of auxotrophic variants the means by which eukaryotic cells may be reassembled to give rise to viable cellular composites gene regulation in eukaryotic organisms and chromosome mapping The discussions also include differentiation in cultured cells neoplastic transformation the modulation of gene expression in cultured cells mutation induction in cultured cells applications of cell culture and the mechanism of cellular aging This book is intended for researchers in the fields of genetics and molecular biology nonspecialists interested in what is happening in a very exciting area of biology and students at the graduate level in cell biology

Nuclear-Cytoplasmic Interactions in the Cell Cycle Gary Whitson, 2012-12-02 Nuclear Cytoplasmic Interactions in the Cell Cycle *Cell Biology of Physarum and Didymium V1* Henery Aldrich, 2012-12-02 Cell Biology of *Physarum* and *Didymium* Volume I Organisms Nucleus and Cell Cycle presents important experimental research on *Physarum* and *Didymium* for developmental and cellular studies This book is organized into four parts encompassing 12 chapters that summarize the taxonomy biological activities genetics and cell cycle of these organisms The opening part covers two chapters on morphology taxonomy phylogeny biosystematics and evolutionary implications of *Physarum* and *Didymium* species This is followed by discussions on the biological aspects of these species These include periodic events of the mitotic cycle in *Physarum polycephalum* The general characteristics of chemoreception at the membrane level using plasmodium as a model organism as well as the structure and motility of plasmodium are also included The third part of the book focuses on genetic analysis of plasmodium development and the discovery of techniques for the genetic manipulation of *P. polycephalum* Progress in the genetic analysis of other processes is summarized The concluding part examines the morphological evolution of the nucleus during the mitotic cycle together with the results from ultracytochemical and radioautographic studies It also includes a discussion on DNA organization and replication in *P. polycephalum* Finally the synthesis and degradation of RNA in *Physarum* and the relationship of these

biochemical processes to mitotic cycle and differentiation are tackled in the concluding chapter The book will serve as a frequent single reference source to brief cell biologists on the primary research on *Physarum* and *Didymium* It will be a good source for graduate students in cell biology and perhaps in other graduate courses Recombinant DNA And Cell Proliferation Gary Stein,2012-12-02 Recombinant DNA and Cell Proliferation focuses on the use of recombinant DNA technology in investigating the regulation of cell proliferation Topics include gene transfer for assessing the role of defined DNA sequences in triggering DNA replication nucleic acid hybridization probes for analyzing the regulation of specific genes during the cell cycle and cloned DNAs for studying genes expressed with proliferation and differentiation This book is organized into three sections encompassing 13 chapters and begins with a discussion on the expression of specific genes during the cell cycle This text also deals with topics such as the use of cloned SV40 DNA fragments to examine signals for cell proliferation expression of dihydrofolate reductase and thymidylate synthase genes in mammalian cells and gene expression during the cell cycle of *Chlamydomonas reinhardtii* The following chapters explore the expression of histone genes during the cell cycle in human cells organization and expression of eukaryotic ribosomal protein genes and expression of the alpha fetoprotein gene during development regeneration and carcinogenesis This book also introduces the reader to the role of the cell division cycle in induced differentiation gene regulation in muscle cells regulation of nonmuscle actin gene expression during early development and sequences at ends of cellular DNA molecules in relation to telomere replication and function An overview of the biochemical aspects of cell proliferation and the genes and gene products that are necessary and specific for cell proliferation concludes the book This book will be of value both to advanced students and to research scientists *Cell Biology of the Eye* David Mcdevitt,2012-12-02 Cell Biology of the Eye discusses the eye tissues and its role in the investigations on active transport growth factors receptors and differentiation The book is comprised of articles which discuss corneal proteoglycans transport of ions and metabolites across the corneal endothelium the ontogeny and localization of the crystallins in eye lens development and regeneration the biological physical basis of lens transparency the chromatic organization of the retina and the dopamine neurons in the retina This treatise will serve as a valuable reference text for graduate and professional students teachers researchers clinicians and to all in the vision field *Cell Biology of Physarum and Didymium* V2 Henery Aldrich,2012-12-02 Cell Biology of *Physarum* and *Didymium* Volume II Differentiation Metabolism and Methodology summarizes important experimental research using *Physarum* and *Didymium* for developmental and cellular studies This book is organized into three parts encompassing 28 chapters that cover the differentiation metabolism and experimental techniques for cellular studies After presenting an introduction to some aspects of developmental biology this volume describes the ultrastructure and physiology of sporulation spore germination encystment excystment spherulation and spherule germination This is followed by a discussion on regulatory events leading to morphogenesis and on biochemical physiological and structural data on the amoeboid stage The second part focuses on metabolic aspects This

includes metabolic characteristics of myxomycetes the formation of nucleotides in Physarum by de novo synthesis and from nucleic acid degradation products and radiation and radiomimetic agents on myxomycete species Considerable chapters in the concluding part are devoted to procedures and protocol for isolation of cell components from Physarum and Didymium species This volume also evaluates some techniques including electron microscopy time lapse microcinematography phase contrast microscopy Feulgen staining and culture methods The concluding chapters examine the preparation isolation and characterization of ribonucleic acid histone plasmodial polysaccharides myosin actins and fragmin The book will serve as a frequent single reference source to brief cell biologists on the primary research on Physarum and Didymium It will also be a good source for graduate students in cell biology and perhaps in other graduate courses **U.S. Environmental**

Protection Agency Library System Book Catalog United States. Environmental Protection Agency. Library Systems Branch,1975 **Cellular Regulation of Secretion and Release** P. Michael Conn,2013-09-24 Cellular Regulation of

Secretion and Release is a compilation of papers that deals with the processes in cellular perception of stimuli and the response to them Part I describes the receptor occupancy and regulation of stimulus through the use of video image intensification techniques This part also explains a model for the transmembrane regulation of adenylate cyclase that shows the mechanisms that cells use in sensing and responding to extracellular conditions Part II discusses the early responses of secretory cells including changes in phospholipid metabolism in electrophysiological events and in macromolecular carboxymethylation One paper suggests that protein carboxyl methylase has a role in neurotransmission and secretion whether as a part of the exocytotic process or just a help to regulate the process Part III addresses the role in secretion of the subcellular architecture particularly as regards the role of the cytoskeleton in endocrine function or insulin secretion and cytoskeletal proteins Part IV discusses the synthesis processing and storage of secretory products including the role of signal peptides their properties and interactions Part V addresses the mechanisms and modulation of secretion and release in a study of Leydig cells One paper concludes that the regulation of release through dopamine and TRH factors can have more than one mechanism of action This book can be useful for cellular microbiologists bacteriologists endocrinologists researchers and academicians in the biochemistry and in reproductive medicine **Advances in Marine Biology**

,1984-11-29 **Advances in Marine Biology** **Marine Fisheries Abstracts** ,1973 Developmental Regulation Stuart

Coward,2012-12-02 **Developmental Regulation** Aspects of Cell Differentiation draws together some studies which are directed toward the orderly changes in cell phenotypes that are understood to be developmental in nature Organized into nine chapters the book begins with a concise overview of the studies on molecular synthesis during early development It then addresses the developmental regulation in cotton seed embryogenesis and germination relation of hormonal regulation to the possible control of RNA and protein biosynthesis transitions in differentiation by the cellular slime molds and interrelationships of genes enzymes structures and phenotypes in morphogenesis It also explains the colony differentiation in

green algae cytology of developing vertebrate skeletal muscle some comparative aspects of cardiac and skeletal myogenesis and differentiation of cartilage in the limb

Molecular Approaches to Neurobiology Ian R. Brown, 2014-06-28 Molecular Approaches to Neurobiology deals with molecular approaches to the analysis of the nervous system This book surveys the current state of knowledge in a number of areas of molecular neurobiology that includes the subcellular level of chromatin structure complexity of RNA synthesis role of hormones in cell differentiation and molecular correlates between neuropeptides and behavior A comprehensive review of procedures for the isolation of specific brain cells and their experimental use is also provided at the end of this text This publication is useful to those working in the field of neurochemistry and those engaged in morphological and physiological approaches to the analysis of the nervous system as well as molecular biologists and biochemists working with non neural tissues

Changes in Eukaryotic Gene Expression in Response to Environmental Stress Burr Atkinson, 2012-12-02 Changes in Eukaryotic Gene Expression in Response to Environmental Stress focuses on various aspects of eukaryotic cell s response to heat stress shock and other stress stimuli This book is organized into two major sections encompassing 17 chapters that reflect the emphasis on research utilizing Drosophila a variety of animal systems and plants This book first provides a brief introduction to the organization sequences and induction of heat shock proteins and related genes It then describes the control of transcription during heat shock from the standpoint of molecular biology and evolutionary variations of the mechanisms in organisms with diverse metabolic needs It goes on to discuss the issue of coordinate and noncoordinate responses of heat shock genes It presents a model for post transcriptional regulation on certain aspects of coordinate and noncoordinate regulations Chapters 6 12 discuss heat shock proteins and genes and the effects of stress on gene expression of sea urchin avian and mammalian cells The second part of the book focuses on the physiological role of heat shock proteins and genes in plants and fungi It includes a discussion on experimental problems encountered during studies of the mechanisms of inhibition of photosynthesis by unfavorable environmental conditions The changes in transcription and translation of specific mRNAs in the developing embryo during heat shock at various temperatures are described The concluding chapters deal with heat shock response in plants particularly the response in soybeans and maize covering both physiological and molecular analyses Research scientists clinicians and agriculturists will greatly benefit from the information presented in this book

Lipids and Biomembranes of Eukaryotic Microorganisms Joseph Erwin, 2012-12-02 Lipids and Biomembranes of Eukaryotic Microorganisms synthesizes the state of knowledge for eukaryotic microorganisms and relates this knowledge to microbial membranes This book examines each of the major classes of lipids sterols fatty acids phospholipids and sulfolipids separately In each case an attempt has been made to provide a comprehensive summary and to evaluate critically the literature on the occurrence and biosynthesis of these compounds in yeasts fungi algae and protozoa Physiological functions of these lipids particularly their role in the membranes of the organisms are described In some cases attention has been called to the possible usefulness of

lipids as taxonomic criteria Experimental systems for studying the relation between the structure of lipids and their function in biomembranes are also discussed These systems include the photosynthetic membranes in organisms such as *Euglena* *Chlorella* and *Chlamydomonas* in which the formation of the chloroplasts is susceptible to experimental control and fatty acid auxotrophic mutants of yeasts and *Neurospora* in which the fatty acid composition of the membrane lipids can be altered by the experimenter This book will be of use to lipid biochemists microbial physiologists taxonomists and cell biologists who are interested in the molecular aspects of biomembranes Mutagenicity John A. Heddle, 2013-10-22 *Mutagenicity* New Horizons in Genetic Toxicology provides an overview of the various applications and studies in the field of genetic toxicology and environmental mutagenesis The book is composed of selected scientific papers written by experts in the field The text presents topics on naturally occurring mutagens occupational carcinogen and evaluation of cooking methods Experiments on mammalian cell mutation chromosomal aberrations and organisms that can be used as environmental monitors of toxicity are discussed as well Ecologists environmental and sanitary engineers toxicologists and anyone interested in environmental mutagenesis genetic toxicology occupational health or the regulation of toxic substances will find the book a good source of insight The Biology of Amoeba Kwang Jeon, 2012-12-02 *The Biology of Amoeba* discusses the general biology morphology movement and related phenomena and biochemical and physiological studies of amoeba This book is organized into five parts encompassing 21 chapters that primarily focus on large free living amoeba After briefly discussing the highlights of studies involving amoeba the book goes on describing the biological aspects of amoeba including its taxonomy phylogeny culture and maintaining methods The second part describes the general morphology ultrastructure and cellular membrane of amoeba The third part includes discussions on the movement of Chaos Amoeba group the amoeboid behavioral and motile responses the molecular mechanism of amoeboid movement and cytoplasmic streaming and the mechanism of endocytosis in the freshwater amoeba Part 4 covers the effects of various groups of mutagens antibiotics radiation and high pressure on phenotype change and cell activities of amoeba The concluding part deals with the isolation and purification of amoeba s nucleic acids as well as physical and chemical characterizations of these compounds This part also describes the characteristics of structural features of amoeba s cell surface and the chemistry of tripartite surface Discussions on cell cycle nucleocytoplasmic interactions nuclear nuclear interactions genetics and strain specificity in amoeba are also covered The book is intended as a comprehensive literature source for students in cell biology as well as for those who are using amoeba as research organisms

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