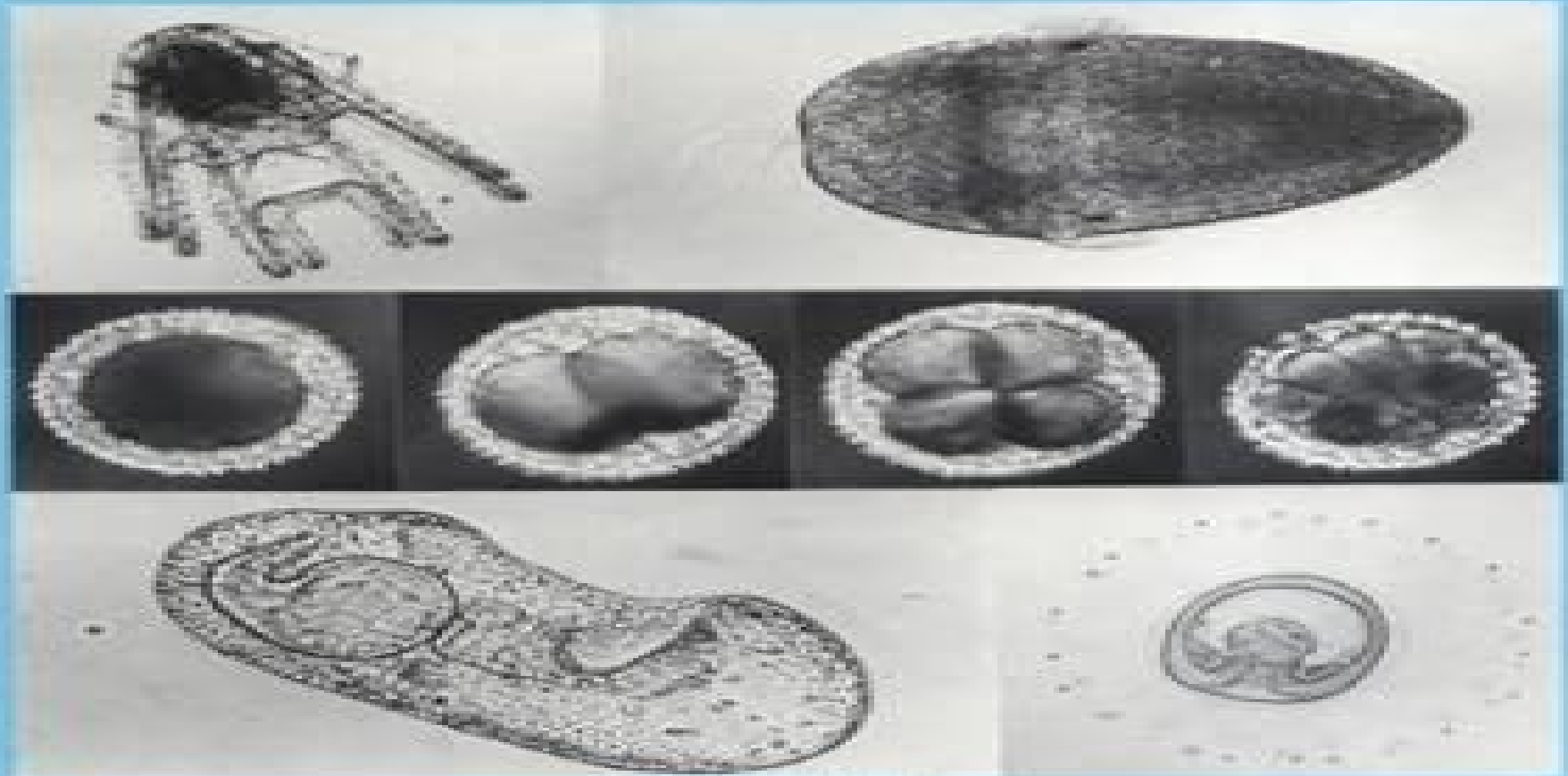


The Cellular and Molecular Biology of Invertebrate Development

Edited by Roger H. Sawyer and Richard M. Showman



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Roger H. Sawyer, Richard M. Showman



The Cellular And Molecular Biology Of Invertebrate Development:

The Cellular and Molecular Biology of Invertebrate Development Roger H. Sawyer, Richard M. Showman, 1985
Sixteen papers by authors from major universities that reflect both the breadth and unity of the developmental process in invertebrates National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1987

The Mathematics and Mechanics of Biological Growth Alain Goriely, 2017-05-29 This monograph presents a general mathematical theory for biological growth. It provides both a conceptual and a technical foundation for the understanding and analysis of problems arising in biology and physiology. The theory and methods are illustrated on a wide range of examples and applications. A process of extreme complexity, growth plays a fundamental role in many biological processes and is considered to be the hallmark of life itself. Its description has been one of the fundamental problems of life sciences but until recently it has not attracted much attention from mathematicians, physicists and engineers. The author herein presents the first major technical monograph on the problem of growth since D'Arcy Wentworth Thompson's 1917 book *On Growth and Form*. The emphasis of the book is on the proper mathematical formulation of growth, kinematics and mechanics. Accordingly, the discussion proceeds in order of complexity and the book is divided into five parts. First, a general introduction on the problem of growth from a historical perspective is given. Then, basic concepts are introduced within the context of growth in filamentary structures. These ideas are then generalized to surfaces and membranes and eventually to the general case of volumetric growth. The book concludes with a discussion of open problems and outstanding challenges. Thoughtfully written and richly illustrated to be accessible to readers of varying interests and background, the text will appeal to life scientists, biophysicists, biomedical engineers and applied mathematicians alike.

Mechanisms of Control of Gene Expression, 1983 Biomechanics of Cell Division Nuri Akkas, 2013-03-09 There are virtually hundreds of life scientists publishing hundreds of papers a year on numerous aspects of the cell cycle. The following are few of the topics covered: cell membrane organization, membrane components, cytoskeleton and associated proteins, cell motility, actin in dividing cells, surface modulating assemblies, microfilaments, microtubules, cleavage furrow, fusion, etc. In all these topics, life scientists talk about, among others, the forces within the system, the motion within the system and the failure of the system. The concepts of force, motion and failure are one way or another all related to the structure of the cell and to the mechanics of the cell activities. When the concepts of mechanics and structure enter the problem, then one has to talk about biomechanics. In this case, biomechanics of cytology, which we would like to call *Cytomechanics*. However, a review of the journals, books and conference proceedings related to various aspects of cytology reveals that mechanicians have not yet entered the field of cytology at a noticeable level. Some life scientists have indeed made use of the general principles of mechanics in their works, however, no truly interdisciplinary publication has yet appeared from the collaboration of mechanicians and life scientists in the field of, for instance, cell division.

Current Topics in Developmental Biology, 1996-05-23 This volume continues the custom of

addressing developmental mechanisms in a variety of experimental systems by offering timely reviews and incisive analysis of key research in developmental biology The conceptual sequence of topics begins with cell cycle regulation during development and differentiation continues with the role of the epididymis and with sperm competition gastrulation and embryonic stem cells and concludes with considerations of differentiation in muscle cells and neurons This volume not only is valuable to researchers at the forefront of animal development but also is a friendly introduction to students and professionals who want an introduction to cellular and molecular mechanisms of development

The Cell Biology of Fertilization Heide Schatten, 2012-12-02 The Cell Biology of Fertilization provides an introduction to the various aspects of fertilization in several species including nematodes insects ascidians clams sea urchins rats hamsters cows pigs sheep and humans This text discusses the experimental approaches using methods of biophysics biochemistry enzymology immunology cell biology and molecular biology This book is comprised of three parts encompassing 15 chapters Part I explores the ability of egg factors to affect sperm motility and initiate the acrosome reaction by modifying ion movements across the sperm plasma membrane Part II considers the aspects of egg architecture ranging from extracellular remodelling to nuclei organization which is involved in embryogenesis and fertilization Part III provides an overview of gene expression oncogenes and nuclear determination during embryogenesis and at fertilization Cell biologists developmental biologists molecular biologists geneticists biophysicists biochemists reproductive biologists scientists researchers and students will find this book extremely useful

Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70

The Oxford Handbook of Invertebrate Neurobiology John H. Byrne, 2019-01-29 Invertebrates have proven to be extremely useful model systems for gaining insights into the neural and molecular mechanisms of sensory processing motor control and higher functions such as feeding behavior learning and memory navigation and social behavior A major factor in their enormous contributions to neuroscience is the relative simplicity of invertebrate nervous systems In addition some invertebrates primarily the molluscs have large cells which allow analyses to take place at the level of individually identified neurons Individual neurons can be surgically removed and assayed for expression of membrane channels levels of second messengers protein phosphorylation and RNA and protein synthesis Moreover peptides and nucleotides can be injected into individual neurons Other invertebrate model systems such as *Drosophila* and *Caenorhabditis elegans* offer tremendous advantages for obtaining insights into the neuronal bases of behavior through the application of genetic approaches The Oxford Handbook of Invertebrate Neurobiology reviews the many neurobiological principles that have emerged from invertebrate analyses such as motor pattern generation mechanisms of synaptic transmission and learning and memory It also covers general features of the neurobiology of invertebrate circadian rhythms development and regeneration and reproduction Some neurobiological phenomena are species specific and diverse especially in the domain of the neuronal control of locomotion and camouflage Thus separate chapters are provided on the control of swimming in annelids crustacea

and molluscs locomotion in hexapods and camouflage in cephalopods Unique features of the handbook include chapters that review social behavior and intentionality in invertebrates A chapter is devoted to summarizing past contributions of invertebrates to the understanding of nervous systems and identifying areas for future studies that will continue to advance that understanding *Botanists and Zoologists* Dean Miller,2014-01-01 In this volume a breakdown of the life and work of some of history s pioneers in the study of plants and animals are thoroughly explored It provides excellent biographical sketches for trailblazers in the sciences Articles are devoted to specific scientists covering their contributions to their field specifically addressing how their research discoveries and inventions impacted human understanding and experience This volume covers names from around the world and throughout the centuries with a chapter specifically devoted to the top scientific contributors of the 21st century

Embracing the Track of Phrase: An Psychological Symphony within **The Cellular And Molecular Biology Of Invertebrate Development**

In a world used by displays and the ceaseless chatter of instant interaction, the melodic elegance and mental symphony developed by the published word often fade into the backdrop, eclipsed by the relentless sound and disruptions that permeate our lives. But, set within the pages of **The Cellular And Molecular Biology Of Invertebrate Development** a wonderful literary value brimming with organic emotions, lies an immersive symphony waiting to be embraced. Crafted by a masterful musician of language, this interesting masterpiece conducts viewers on a mental journey, skillfully unraveling the concealed songs and profound influence resonating within each carefully constructed phrase. Within the depths of this poignant evaluation, we will investigate the book is central harmonies, analyze their enthralling writing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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