

# The Developmental Biology Of Reproduction The Thirty Third Symposium Of The Society For Developmental Biology Athens Georgia June 9 12 1974

The Developmental Biology of Reproduction-Society for Developmental Biology 1975 The Developmental Biology of Reproduction ...

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Human Reproduction and Developmental Biology-David J. Begley 1980

The Biology of Reproduction-Giuseppe Fusco 2019-10-10 A look into the phenomena of sex and reproduction in all organisms, taking an innovative, unified and comprehensive approach.

Human Reproduction and Developmental Biology- 1980-02-28

Reproductive Biology of Invertebrates: Progress in developmental biology-Rita G. Adiyodi 1983

Molecular Biology of the Male Reproductive System-David de Kretser 2012-12-02 Written by experts in their respective fields, this book reviews the expanding knowledge concerning the mechanisms regulating male reproduction at the molecular and cellular levels. It covers the development of the testes and regulatory controls for spermatogenesis and steroidogenesis, and it considers aspects of Sertoli cell function. Areas of emphasis include communication between the various cell types involved in reproduction by hormone and growth factors and the mechanisms by which these factors regulate gene expression. A number of mammalian systems, including humans, are covered. The carefully selected authors provide a clear synopsis of the concepts in each area as well as the latest references, enabling the reader to investigate the topic further. This book is of interest to those seeking an understanding of the regulatory mechanisms in male reproduction and is written for the graduate and postgraduate levels. Key Features \* Provides up-to-date reviews of the molecular and cellular biology of male reproduction \* Includes chapters on the developmental biology of the testes \* Links conventional hormonal control of testicular function with the evolving role of growth factors and proto-oncogenes

Atlas of Invertebrate Reproduction and Development-David Bruce Conn 2000-01-28 Comprehensive, up-to-date coverage of the major reproductive and developmental strategies in the animal kingdom Understanding where and how invertebrates live, reproduce, and develop continues to be a growing fascination to those in scientific, economic, environmental, and health-related fields. The Second Edition of Atlas of Invertebrate Reproduction and Development fills the need for an updated reference that outlines essential information concerning all of the generally recognized phyla. It provides readers with an overview of the major reproductive and developmental strategies employed throughout the animal kingdom. This new edition presents a broad range of coverage in textual descriptions of reproduction and development in animal phyla, including a series of labeled micrographs that demonstrate the details of reproductive systems as well as the embryonic, larval, and juvenile stages for representatives of each phylum. In addition, the Second Edition provides vital updates, including: \* Fourteen additional phyla, including all generally recognized phyla \* Discussion of newly discovered animal phylum?Cycliophora \* Additional coverage of chordate development, including embryogeny of tunicates \* Expanded coverage of several phyla based on recent research Atlas of Invertebrate Reproduction and Development, Second Edition covers the reproductive and developmental biology of invertebrates in a manner that is straightforward and comprehensible. Researchers and instructors in the

fields of morphology, developmental biology, and invertebrate biology will all be reminded of how the study of invertebrates has led the way in attempting to understand the mechanisms by which life is defined and propagated.

Molecular, Cellular and Developmental Biology of Reproduction-International Malpighi Symposium (4, 1999, Roma) 2001

Sexual Biology and Reproduction in Crustaceans-Thanimulaya 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

Molecular and Cellular Mechanisms in Reproduction and Early Development-Rafael A. Fissore 2019-08-20 The Research Topic aims to support progress towards understanding the different sets of developmental processes that are absolutely required to complete all the steps essential for successful embryonic development, under physiological conditions. We sought contributions that dealt with single cells, interaction between cells as well as intra- and extracellular signal transduction. The Research Topic presents original studies covering experimental and theoretical approaches, descriptions of new methodologies, reviews and opinions.

Molecular, Cellular and Developmental Biology of Reproduction-International Federation of Associations of Anatomists. Congress 2001

Development and Reproduction in Humans and Animal Model Species-Werner A. Mueller 2015-01-03 This book describes human development including sexual reproduction and stem cell research with the development of model organisms that are accessible to genetic and experimental analysis in readily understandable texts and 315 multi-colored graphics. The introductory account of model organisms selected from the entire animal kingdom presents general principles, which are then outlined in subsequent chapters devoted to, for example, sexual development; genes controlling development and their contemporary molecular-analysis methods; production of clones and transgenic animals; development of the nervous and circulatory systems; regenerative medicine and ageing. Finally the evolution of developmental toolkits and novelties is discussed

including the genetic basis of the enlargement of the human forebrain. Separate boxes are devoted to controversial questions such as the benefits and problems of prenatal diagnostics or the construction of ancient body plans.

Understanding Development-Alessandro Minelli 2021-05-20 Developmental biology is seemingly well understood, with development widely accepted as being a series of programmed changes through which an egg turns into an adult organism, or a seed matures into a plant. However, the picture is much more complex than that: is it all genetically controlled or does environment have an influence? Is the final adult stage the target of development and everything else just a build-up to that point? Are developmental strategies the same in plants as in animals? How do we consider development in single-celled organisms? In this concise, engaging volume, Alessandro Minelli, a leading developmental biologist, addresses these key questions. Using familiar examples and easy-to-follow arguments, he offers fresh alternatives to a number of preconceptions and stereotypes, awakening the reader to the disparity of developmental phenomena across all main branches of the tree of life.

Reproduction and Development in Echinodermata and Prochordata-T. J. Pandian 2018-04-17 Echinoderms and prochordates occupy a key position in vertebrate evolution. The genomes of sea urchin share 70% homology with humans. Researches on cell cycle in sea urchin and phagocytosis in asteroids have fetched Nobel Prizes. In this context, this book assumes immense importance. Echinoderms are unique, as their symmetry is bilateral in larvae but pentamerous radial in adults. The latter has eliminated the development of an anterior head and bilateral appendages. Further, the obligate need to face the substratum for locomotion and acquisition of food has eliminated their planktonic and nektonic existence. Egg size, a decisive factor in recruitment, increases with decreasing depths up to 2,000-5,000 m in lecithotrophic asteroids and ophiuroids but remains constant in their planktotrophics. Smaller (110 mm) asteroids generate planktotrophic eggs only. Publications on sex ratio of echinoderms indicate the genetic determination of sex at fertilization but those on hybridization, karyotype and ploidy induction do not provide evidence for heterogametism. But the herbivorous echinoids and larvacea with their gonads harboring both germ cells and Nutritive Phagocytes (NPs) have economized the transportation and hormonal costs on gonadal function. Despite the amazing potential just 2 and 3% of echinoderms undergo clonal reproduction and regeneration, respectively. Fission is triggered, when adequate reserve nutrients are accumulated. It is the most prevalent mode of clonal reproduction in holothuroids, asteroids and ophiuroids. However, budding is a more prevalent mode of clonal reproduction in colonial hemichordates and urochordates. In echinoderms, fission and budding eliminate each other. Similarly, autoregulation of early development eliminates clonal reproduction in echinoids and solitary urochordates. In pterobranchs, thaliaceans and ascidians, the repeated and rapid budding leads to colonial formation. Coloniality imposes reductions in species number and body size, generation time and life span, gonad number and fecundity as well as switching from gonochorism to simultaneous hermaphroditism and oviparity to ovoviviparity/viviparity.

Reproduction and Development in Vertebrates-Ambika Prasad Diwan 1996 Reproduction And Development In Vertebrates Has Been Presented Within The Framework Of Scientific Discovery. Morphogenesis In Animals Has Made Tremendous And Incredible Strides In Recent Years. Consequently, Existing Concepts Of The Developmental Biology Have Expanded. There Has Been A Revolution Indeed In This Direction. The Text Integrates The Descriptive, Experimental And Biochemical Approaches With A Conceptual Framework For The Analysis Of Development. All Important Points Are Illustrated Diagrammatically. The Title Is Not Intended To Be Comprehensive Nor Could It Be At Length, But It Concentrates As Putting Across The Basic Principles Of The Subject As Briefly And Lucidly As Possible. It Does This With The Aid Of Carefully Selected Examples, Some Recent And Other Classic Of The Field And With Numerous Illustrations. The Aim Is To Enthuse The Reader With This Active And Exciting Area Of Research And To Lay A Solid Foundation On Which Further Study Of Its Various Facets May Be Based. The Book Will Prove A Valuable Asset For The Graduate And Postgraduate Students Of Biology And Also For Research Scholars And Teachers. Main Contents Include: Anatomy Of The

Reproduction System, Characteristics Of The Primordial Germ Cells, Extragonadal Origin Of The Primordial Germ Cells, Testis, Ovum Transport, Care Of Embryo, Intersexes, Patterns Of Seasonability, Reproduction And Immunology And So On.

Reproduction and Development in Crustacea-T. J. Pandian 2016-04-05 Dating back to the early Cambrian period, crustaceans had ample time to undertake endless experimentation with form and function. Today, no other group of plants or animals on the planet exhibit the range of morphological diversity seen among extant Crustacea. With more than 52,000 species, they are placed fourth in terms of overall species diversity. This book comprehensively elucidates the reproduction and development of all the taxonomic groups of Crustacea and bridges the gap between conventional zoologists and molecular biologists. Reproductive modes from the point of embryonic stem cells and primordial germ cells is discussed with a special section on cysts.

Developmental Biology and Reproduction Attributes of Tetranychus Spp. Infesting Major Vegetable Crops-K.B. Tharini 2013

REPRODUCTION- MOLECULAR SUBCELLULAR AND CELLULAR- 24TH SYMPOSIUM- PAPERS- SOCIETY FOR DEVELOPMENTAL BIOLOGY.- Encyclopedia of Reproduction- 2018-06-29 Encyclopedia of Reproduction, Second Edition comprehensively reviews biology and abnormalities, also covering the most common diseases in humans, such as prostate and breast cancer, as well as normal developmental biology, including embryogenesis, gestation, birth and puberty. Each article provides a comprehensive overview of the selected topic to inform a broad spectrum of readers, from advanced undergraduate students, to research professionals. Chapters also explore the latest advances in cloning, stem cells, endocrinology, clinical reproductive medicine and genomics. As reproductive health is a fundamental component of an individual's overall health status and a central determinant of quality of life, this book provides the most extensive and authoritative reference within the field. Provides a one-stop shop for information on reproduction that is not available elsewhere Includes extensive coverage of the full range of topics, from basic, to clinical considerations, including evolutionary advances in molecular, cellular, developmental and clinical sciences Includes multimedia and interactive teaching tools, such as downloadable PowerPoint slides, video content and interactive elements, such as the Virtual Microscope

Reproduction and Development in Mollusca-T. J. Pandian 2018-09-07 This book is perhaps the first attempt to comprehensively project the uniqueness of molluscs, covering almost all aspects of reproduction and development from aplousobranchs to vampyromorphic cephalopods. Molluscs are unique for the presence of protective external shell, defensive inking, geographic distribution from the depth of 9,050 m to an altitude of 4,300 m, gamete diversity, the use of nurse eggs and embryos to accelerate the first few mitotic divisions in embryos, the natural occurrence of androgenesis in a couple of bivalves, viable induced tetraploids, gigantism induced by elevated ploidy, the complementary role played by mitochondrial genome in sex determination by nuclear genes and the uptake and accumulation of steroid hormone from surrounding waters. In molluscs, sexuality comprises of gonochorism ( 24%), protandry (

Reproductive Biology and Phylogeny of Cetacea: Whales, Porpoises and Dolphins-Debra Lee Miller 2016-04-19 The order Cetacea comprises some amazing species, representing some of the most evolved creatures that inhabit this earth. Yet, they also represent a group of species for which much remains unknown. There are over 80 species of cetaceans composed of porpoises, dolphins and whales. This volume represents the latest of published and previously unpublished information regarding cetacean reproductive biology and phylogeny.

Human Reproductive Biology-Richard E. Jones 2006-05-15 This acclaimed text has been fully revised and updated, now incorporating issues including aging of the reproductive system, and updates on the chapters on conception and Gamete Transport and Fertilization, and Pregnancy. Human Reproductive Biology, Third Edition emphasizes the biological and biomedical aspects of human reproduction, explains advances in reproductive science and discusses the choices and concerns of today. Generously illustrated in full color, the text provides current information about human

reproductive anatomy and physiology. The ideal book for courses on human reproductive biology - includes chapter introductions, sidebars on related topics of interest, chapter summaries and suggestions for further reading. All material completely updated with the latest research results, methods, and topics now organized to facilitate logical presentation of topics New chapters on Reproductive Senescence, Conception: Gamete Transport, Fertilization, Pregnancy: Maternal Aspects and Pregnancy: Fetal Development Full color illustrations

Invertebrate Reproduction & Development-Diwan & Dhakad 1996-01-01 Invertebrate Reproduction And Development Has Been Presented Within The Framework Of Scientific Discovery. Morphogenesis In Animals Has Made Tremendous And Incredible Strides In Recent Years. Consequently, Existing Concepts Of The Developmental Biology Have Expanded. There Has Been A Revolution Indeed In This Direction. The Text Integrates The Descriptive, Experimental And Biochemical Approaches With A Conceptual Framework For The Analysis Of Development. All Important Points Are Illustrated Diagrammatically. The Title Is Not Intended To Be Comprehensive Nor Could It Be At Length, But It Concentrates As Putting Across The Basic Principles Of The Subject As Briefly And Lucidly As Possible. It Does This With The Aid Of Carefully Selected Examples, Some Recent And Other Classic Of The Field And With Numerous Illustrations. The Aim Is To Enthuse The Reader With This Active And Exciting Area Of Research And To Lay A Solid Foundation On Which Further Study Of Its Various Facets May Be Based.The Book Will Prove A Valuable Asset For The Graduate And Postgraduate Students Of Biology And Also For Research Scholars And Teachers.The Book Is A Fifth In The Series Of Recent Advances In Developmental Biology. It Has Been Divided In Eleven Main Chapters Like Fertilization And Sexuality, Reproduction In Hydra, Development Of Various Helminthes, Development Of Echinoids And So On. The Book Is Fully Diagramed To Make The Subject Easy To Grasp.

Reproductive Biology of Invertebrates, Progress in Development Endocrinology-August Dorn 2000-07-26 About 95 per cent of all known animal species are invertebrates. A knowledge of their sexual, reproductive, and developmental biology is essential for the effective management of species that are economically useful to man or are harmful to him, his crops and livestock. This treatise is the first to cover all aspects of reproduction and development of the entire spectrum of invertebrates terrestrial, marine, fresh-water, brackish-water, free-living, and parasitic. The chapters, by leading world experts in their fields, are up-to-date and informative, and suggest a number of problems for future research. Progress in Developmental Endocrinology (issued in parts A and B) is the tenth Volume in the series. Volume X, Part A Progress in Developmental Endocrinology Edited by August Dorn Contents Preface to the Progress Series; Preface to Volume X A; Contributors; Endocrine Systems of Protostomia and Non-Vertebrate Deuterostomia An overview D. Buckmann; Porifera Werner E.G. Muller and Isabel M. Muller; Ctenophora and Cnidaria Cornelis J.P. Grimmelikhuijzen; Platyhelminthes Maria Reuter and Margaretha K.S. Gustafsson; Nematoda Klaus-Dieter Spindler and Margarethe Spindler-Barth; Mollusca Naokuni Takeda; Endocrine Disruption of Reproduction by Organotins in Mollusca Naokuni Takeda; Arthropoda Chelicerata Jean-Louis Connat, Arthropoda Crustacea Klaus-Dieter Spindler, Peter Jaros and Wolfgang Weidemann; Arthropoda Myriapoda Heinrich Scheffel; Subject Index; Species Index.

Reproductive Biology and Phylogeny of Gymnophiona: Caecilians-Barrie G M Jamieson 2006-01-05 One of the little known species in the danger of extinction, gymnophionan amphibians, are also known as caecilians or apoda. Gymnophiona contains 154 species belonging to 34 genera and 6 families. For many years, studies on the Gymnophiona were disparate and still only a few species have been deeply studied. Fortunately, in recent years, some new works have been published on their systematics, using both the classical methods as well as immunology and molecular biology. New data have also been obtained on the biology, life history, reproductive biology, endocrinology and embryonic development of several species. These fascinating aspects along with other important ones on gymnophionan studies are ably reviewed in this book.

Reproductive Biology of Invertebrates, Progress in Reproductive Endocrinology- 1998-02-04 About 95 per cent of all known animal species are

invertebrates. A knowledge of their sexual, reproductive, and developmental biology is essential for the effective management of species that are economically useful to man or are harmful to him, his crops, and livestock. This treatise is the first to cover all aspects of reproduction and development of the entire spectrum of invertebrates terrestrial, marine, freshwater, brackish-water, free-living, and parasitic. The chapters, by leading world experts in their fields, are up-to-date and informative, and suggest a number of problems for future research.

The Development of Animal Form-Alessandro Minelli 2003-03-03 Contemporary research in the field of evolutionary developmental biology, or 'evo-devo', has to date been predominantly devoted to interpreting basic features of animal architecture in molecular genetics terms. Considerably less time has been spent on the exploitation of the wealth of facts and concepts available from traditional disciplines, such as comparative morphology, even though these traditional approaches can continue to offer a fresh insight into evolutionary developmental questions. The Development of Animal Form aims to integrate traditional morphological and contemporary molecular genetic approaches and to deal with post-embryonic development as well. This approach leads to unconventional views on the basic features of animal organization, such as body axes, symmetry, segments, body regions, appendages and related concepts. This book will be of particular interest to graduate students and researchers in evolutionary and developmental biology, as well as to those in related areas of cell biology, genetics and zoology.

Introduction to Developmental Biology-Francis Collins 2021-11-16 The study of the processes through which plants and animals grow and develop is referred to as developmental biology. It encompasses various areas of study such as biology of regeneration, metamorphosis, asexual reproduction as well as the growth of stem cells in the adult organisms. The developmental processes of organisms are divided into two major categories, namely, cell differentiation and regeneration. The process in which different functional cell types arise during development is known as cell differentiation. The ability to regrow a missing part is known as regeneration. Some of the other processes studied within this field are regional specification, morphogenesis and growth. This book unfolds the innovative aspects of developmental biology which will be crucial for the progress of this field in the future. The topics included herein on this subject are of utmost significance and bound to provide incredible insights to readers. Coherent flow of topics, student-friendly language and extensive use of examples make this book an invaluable source of knowledge.

Reproductive Biology and Phylogeny of Birds, Part A:-Barrie G M Jamieson 2007 Aspects of reproduction covered in this volume include classification and phylogeny as revealed by molecular biology; anatomy of the male reproductive tract and organs; development and anatomy of the female reproductive tract; and more.

Knobil and Neill's Physiology of Reproduction-Ernst Knobil 2006 The 3rd edition, the first new one in ten years, includes coverage of molecular levels of detail arising from the last decade's explosion of information at this level of organismic organization. There are 5 new Associate Editors and about 2/3 of the chapters have new authors. Chapters prepared by return authors are extensively revised. Several new chapters have been added on the topic of pregnancy, reflecting the vigorous investigation of this topic during the last decade. The information covered includes both human and experimental animals; basic principles are sought, and information at the organismic and molecular levels are presented. \*The leading comprehensive work on the physiology of reproduction\* Edited and authored by the world's leading scientists in the field \*Is a synthesis of the molecular, cellular, and organismic levels of organization\* Bibliographies of chapters are extensive and cover all the relevant literature

Reproduction and Development in Minor Phyla-T J Pandian 2021-05-14 The 26 recognized minor phyla comprise aberrant clades, as most of them terminate as blind offshoots. Untied from the discussion on their phylogenesis of minor phyla, this book is largely devoted, for the first time, to aspects of reproduction and development in minor phyletics. The minor phyla are not as speciose (1,795 species/phylum) as the major phyla (157,066 species/phylum) are. The accumulation of deleterious genes causes inbreeding depression among progenies arising from parthenogenesis, clonal

multiplication and selfing hermaphrodites. The reason for the limited species diversity in minor phyla is traced to (i) eutelism in 65.7% of minor phyletics and (ii) existence of 21.6% clonals, (iii) 6.4% parthenogens and (iv) 1.2% selfing hermaphroditism. Gonochorism obligately requires motility to search for a mate. The combination of low motility and gonochorism from Placozoa to hemocoelomatic minor phyla has limited diversity to Sex Determination in Vertebrates- 2019-04-16 Sex Determination, Volume 134, the latest release in the Current Topics in Developmental Biology series, contains current reviews in the field of vertebrate sex determination. It covers molecular pathways of sex determination in genetic and environmental species and encompasses both sex determination of somatic lineages and commitment of germ cells to male or female fate. Chapters in this new release cover, amongst other topics, Mapping the Sox9 Enhancer Elements, Epigenetic Regulation of Sex Determination, Evolution and Management of Sex Chromosomes, Regulation of Germ Cell Sex Identity in Medaka, Control of Sex Determination in Zebrafish, Sexually Dimorphic Germ Cell Identity in Mammals, and more. Contains reviews written by leading experts in each field Includes informative figures that illustrate principle points that are useful for teaching Written in a style that is clear and simple

Ultrastructure of Reproduction-Jonathan van Blerkom 2012-12-06 Advances in the development and application of electron microscopic techniques have occurred recently such that the electron microscope has evolved to become an essential tool in both basic and clinical research. Use of this instrument has contributed significantly to the formation of new perspectives and concepts concerning cell fine structure. These structural perspectives are now being integrated with specific functional, biochemical and pathophysiological events and processes of cells and tissues. Most recently, utilization of innovative electron microscopic techniques such as freeze-fracture, freeze etching, and scanning and high-voltage electron microscopy offers both the basic and clinical scientist potentially fundamental insights into many morphodynamic processes related to the activities of cells and tissues. Such an approach has been especially rewarding when applied to the dynamic events of gametogenesis and early embryonic development. The chapters comprising this book have been selected and edited with the aim of providing an up-to-date and comprehensive account of the most important aspects of vertebrate gametes and embryos as revealed by the integration of several different submicroscopic methods. The organization of the chapters is designed to indicate present gaps in our knowledge of the developmental and reproductive biology of gametes and the developing embryo and possible lines of research which may lead to a lessening of these gaps.

Reproductive Biology of Invertebrates, Fertilization, Development, and Parental Care- 1991-10-02 Reproductive Biology of Invertebrates Volume IV Fertilization, Development, and Parental Care Edited by K.G. Adiyodi and R.G. Adiyodi About 95 per cent of all known animal species are invertebrates. A knowledge of their sexual, reproductive, and developmental biology is essential for the effective management of species that are economically useful to man or are harmful to him, his crops, and livestock. This treatise is the first to cover all aspects of reproduction and development of the entire spectrum of invertebrates—terrestrial, marine, freshwater, brackish-water, free-living, and parasitic. The chapters, by leading world experts in their fields, are up-to-date and informative, and suggest a number of problems for future research. Fertilization, Development, and Parental Care is the fourth volume in the series. Part A : Porifera through Annelida-Polychaeta Contents Series Preface; Preface to Volume IV; Systematic Resume of the Invertebrates; Porifera, P.E. Fell; Cnidaria, D.G. Fautin, F.-S. Chia, and J.G. Spaulding; Platyhelminthes-Turbellaria, L. Galleni and V. Gremigni; Platyhelminthes—Eucestoda, R.E. Davis and L.S. Roberts; Mesozoa, B.H. McConnaughey; Nemertina, C.-E. Cantell; Gnathostomulida, M. Mainitz; Rotifera, J.J. Gilbert; Gastrotricha, W.D. Hummon and M.R. Hummon; Kinorhyncha, A.E. Needham; Nematoda and Nematomorpha, A.F. Bird and R.I. Sommerville; Acanthocephala, D.W.T. Crompton; Priapulida, A. Nørrevang and Jacob van der Land; Sipuncula, M.E. Rice; Mollusca, R.L. Brahmachary; Echiura, F.C. Davis; Annelida-Polychaeta, P.C. Schroeder; Species Index; Subject Index. Part B: Annelida—Clitellata through Urochordata—Larvacea Contents Series Preface; Preface to Volume IV; Systematic Resume of the Invertebrates;

Annelida—Clitellata, A.E. Needham; Pogonophora, T. Bakke; Tardigrada, R. Bertolani; Onychophora, H. Ruhberg; Arthropoda—Chelicerata, Sperm Transfer, P. Weygoldt; Arthropoda—Crustacea, G.W. Hinsch; Pentastomida, J.T. Self; Phoronida, C.C. Emig; Bryozoa Ectoprocta, C. Nielsen; Bryozoa Entoprocta, C. Nielsen; Brachiopoda, S.H. Chuang; Chaetognatha, A. Alvarino; Echinodermata: Molecular and Cellular Biology of the Sea Urchin Embryo, G. Spinelli and I. Albanese; Urochordata—Ascidiacea, R.A. Cloney; Urochordata—Thaliacea, J.E.A. Godeaux; Urochordata—Larvacea, C. P. Galt and R. Fenaux; Species Index; Subject Index.

Genome Multiplication in Growth and Development-V. Ya. Brodsky 1985 This authoritative account of the developmental biology of genome multiplication, the reproduction of the genetic material that results in polyploid and polytene cells, is based on many years' study by its authors. Polyploid and polytene cells regularly occur in a wide range of organisms, including mammals, invertebrates, plants and protozoa. The cells also have a particular significance for the function of the tissues and organs of which they are an integral part. The first part of the book details the origin of polyploidy and polyteny in the normal development of many tissue systems. In the second part the various modes of genome multiplication, its control, and its biological significance are discussed. The book is fully referenced citing literature published in many languages, and is particularly valuable in that it includes scientific results previously available only in Russian.

Molecular and Cellular Aspects of Plant Reproduction-R. J. Scott 1994-11-24 Molecular aspects of flower morphogenesis for researchers and students from SEB Seminar. The book will appeal to students and researchers in floral physiology.

Evolving Pathways-Giuseppe Fusco 2008-01-10 Evolutionary developmental biology, or 'evo-devo', is the study of the relationship between evolution and development. Dealing specifically with the generative mechanisms of organismal form, evo-devo goes straight to the core of the developmental origin of variation, the raw material on which natural selection (and random drift) can work. Evolving Pathways brings together contributions that represent a diversity of approaches. Topics range from developmental genetics to comparative morphology of animals and plants alike, and also include botany and palaeontology, two disciplines for which the potential to be examined from an evo-devo perspective has largely been ignored until now. Researchers and graduate students will find this book a valuable overview of current research as we begin to fill a major gap in our perception of evolutionary change.

Reproductive Biology and Phylogeny of Urodela-Barrie G M Jamieson 2003-01-05 This volume contains original contributions from an international group of authors with the highest reputations in their respective areas of phylogenetic and reproductive studies on salamanders and newts. A full panoply of topics is covered, from morphology of gametes and reproductive systems to considerations of behavior and life history, all placed in a phylogenetic context. The chapters not only synthesize past literature but also present new observations and indicate directions for future research. This is an essential text for anyone interested in the biology of urodele amphibians.

Reproduction of Eukaryotic Cells-David M. Prescott 2012-12-02 Reproduction of Eukaryotic Cells organizes in a single source the principal facts and observations on the cell life cycle and reproduction of eukaryotic cells. The aim is to increase the overall understanding of how these cells reproduce themselves and how this reproduction is regulated. The book begins with a discussion of the sections of the cell cycle and regulation of cell reproduction. Separate chapters on cell growth, cell synchrony, the G1 period, S period, and G2 period follow. Subsequent chapters are devoted to activities during cell division; cell cycle changes in surface morphology; the role of cyclic AMP (cAMP) and cyclic GMP (cGMP) in regulation of cell reproduction; and changes in nuclear proteins, RNA synthesis, and enzyme activities during the cell cycle. The final chapter covers the genetic analysis of the cell cycle.

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