



Somites In Developing Embryos

Zhiyuan Gong, Vladimir Korzh



Somites In Developing Embryos:

Somites in Developing Embryos Ruth Bellairs, 2013-11-11 Somite development is a unique and important topic unique because somitic mesoderm is the first tissue to become segmented important because the somites once established exert a profound influence on other segmental structures which form later Somite development is of interest at a number of levels In one aspect demarcation of a specific number of somites and size regulation it is a particularly intriguing example of embryonic pattern formation especially in view of its possible relation to homeobox controlled segmentation in insects At another level somite development has long been studied by comparative anatomists but only recently has new light been thrown on such subjects as segmentation of the head proposed in the 18th century by Goethe and now a live issue for developmental biologists Somites are simple when they first appear but very complex structures arise from them These include the vertebrae and the axial and other muscles and consequently there is a wealth of morphogenetic problems to be explored Sometimes their morphogenesis is disturbed by genetic or environmental factors and there are many clinical conditions which arise as a result *The Origin and Fate of Somites* North Atlantic Treaty Organization. Scientific Affairs Division, 2001 This text investigates advances in the field of somites and integrates them into the accumulated knowledge of how somites form and differentiate Although the book focuses on the formation and patterning of somites it will encompass a broader life history of a somite Topics include events attending gastrulation which foreshadow somite formation to the subsequent contributions that somites make to neighbouring regions such as musculature limbs and axial skeleton There is also a discussion of the origins of cells that eventually give rise to somites This book brings together investigators from NATO and NATO partner countries who are employing both classical and molecular approaches to the analysis of somitogenesis

Development Biology Edward Bittar, 1998-06-03 The purpose of this module is to provide a survey of the rapidly expanding field of developmental biology and to introduce it to the student in a unifying way In medical schools where courses in biochemistry physiology and pharmacology are already considerably intersecting there is not surprisingly a rising demand in modern medical education for books emphasizing the interdisciplinary approach In recent years developmental biology has become a very vibrant and exciting field The adoption of the interdisciplinary approach in this field has yielded enormous information about how DNA is able to produce a living organism from a fertilized egg The discovery of master genes in *Drosophila* that control spatial organization and share a segment of DNA the so called homeobox and the discovery in *C. elegans* of genes controlling the timing of branching off of cell lineages are today recognized as milestones in molecular developmental biology Because of space limitations and because of the information explosion we have continued to pursue the policy of selecting broad topics but not in every case This time for example though guided by the principle that a close connection exists between genes adhesion and morphogenesis we opted to include certain topics such as cadherin an adhesion molecule rather than have the whole subject of adhesion dealt with in a single chapter Substrate adhering

molecules e g fibronectin are touched upon in Chapter 5 In a similar manner only one type of junction is discussed at length Chapters 8 9 and 10 border on the extraordinary for they are together absorbingly interesting The last chapter makes things more pragmatic The attention of the reader is drawn to the fact that several previous volumes of the compendium impinge on the present one Chapters 25 and 26 in Volume 7B in particular have much to say on the subjects of extracellular matrix adhesion and intercellular communication

Formation and Differentiation of Early Embryonic Mesoderm Ruth Bellairs, Esmond J. Sanders, James W. Lash, 2012-12-06 Mesoderm is a key tissue in early development It is involved in the differentiation of almost every organ in the body not merely as a structural component but as an active participant in the establishment of diverse cell types All mesoderm is derived from ectoderm Its appearance signals the start of a significant new phase in the development of the embryo At this time all three germ layers are now present and myriad sequences of cell and tissue interactions begin to occur which will eventually give rise to the entire embryo The control of the growth and differentiation of the mesoderm is critical for the production of a normal individual Indeed disturbance of the patterning of the mesoderm or of its interaction with other tissues plays a critical part in the formation of most congenital anomalies The main focus of this book is therefore on the establishment divergence and specialisation of mesodermal derivatives The central role of the mesoderm in development has long been appreciated and a wide literature exists on its activity in certain specialised situations Recently however an impetus to its study has been provided by new approaches opened up through biotechnological advances Many of these advances are reflected in the reports in this volume Scientists from various disciplines have become drawn to mesodermal tissues and this volume may help them find a framework within which their work will fit

Biological Physics of the Developing Embryo Gabor Forgacs, Stuart A. Newman, 2005-11-24 During development cells and tissues undergo changes in pattern and form that employ a wider range of physical mechanisms than at any other time in an organism's life This book shows how physics can be used to analyze these biological phenomena Written to be accessible to both biologists and physicists major stages and components of the biological development process are introduced and then analyzed from the viewpoint of physics The presentation of physical models requires no mathematics beyond basic calculus Physical concepts introduced include diffusion viscosity and elasticity adhesion dynamical systems electrical potential percolation fractals reaction diffusion systems and cellular automata With full color figures throughout this comprehensive textbook teaches biophysics by application to developmental biology and is suitable for graduate and upper undergraduate courses in physics and biology

Somitogenesis, Part 1, 1999-12-06 The chapters contained in this two volume set provide a broad perspective on the novel strategies and conceptual paradigms that drive the current resurgence of interest in somitogenesis the process by which somites form and elaborate differentiated tissues and structures Because somites are a ubiquitous feature of vertebrate embryos they can be studied in a variety of experimental animal models including those amenable to genetic zebrafish mammalian molecular genetic mammalian avian as well as

those already well established for classical experimental embryological and cell biological studies amphibians avian The wide variety of experimental approaches to somitogenesis that are presented in these volumes will leave the reader with a broad perspective on how current research in somitogenesis is helping to solve fundamental questions in vertebrate development and morphogenesis Key Features Novel transcriptional mechanisms that control repetitive pattern formation Wide scale genetic screens for mutations affecting somitogenesis Molecular genetic control of pattern and tissue formation during somitogenesis Transplantation of mouse embryo somites Classical embryological approaches and concepts Evolutionary perspectives on somitogenesis

Mouse Development Janet Rossant, Patrick P. L. Tam, 2002-03 This book represents a classic compilation of current knowledge about mouse development and its correlates to research in cell biology molecular biology genetics and neuroscience Emphasis is placed on the research strategy experimental design and critical analysis of the data disguising this from other books that only focus on protocols for mouse developmental research Selected chapters are indexed to electronic databases such as GeneBank GenBank Electronic Mouse Atlas and Transgenic Knockout further increasing the utility of this book as a reference Broad based overview of mouse development from fundamental to specialist levels Extensive coverage of a wide range of developmental mutations of the mouse Excellent benchmark illustrations of brain craniofacial gut and heart development In depth experiment based assessment of concepts in mammalian development Focus on models of specific relevance to human development Comprehensive reference to key literature and electronic databases related to mouse development High quality full color production

Developmental Biology and Cancer Gisele M. Hodges, Charles Rowlett, 2024-12-20 This book addresses possible analogies between cancer and developmental biology An international group of experts provides a multidisciplinary approach allowing biological or clinical scientists involved with cancer research to integrate specific information from diverse areas Five concepts of cancer are presented and developmental biology is reviewed at five levels These are integrated in discussions of failure in organisation as a basis of cancer and its control The book will be a valuable reference for both newcomers as well as experienced biological and clinical scientists

Patterning in Vertebrate Development Cheryll Tickle, 2003 One of the most fascinating problems in biology is how a single cell the fertilised egg gives rise to a new individual The fertilised egg divides many times to form an embryo This volume in the Frontiers in Molecular Biology series discusses the methods by which cells in distinct regions of an embryo become different a process known as patterning Patterning is fundamental to establishing the spatial organisation of the developing embryo It ensures that all the parts of the body are generated and that they form in exactly the right places The ultimate in patterning is the formation of precise arrangements of specialised cells and tissues within each organ Understanding the process of patterning during the embryonic development of vertebrates is a particular challenge for developmental biologists because vertebrates have an intricate and complex anatomy and histology The first two chapters of *Patterning in Vertebrate Development* are introductory explaining to the reader the general principles of vertebrate

patterning and early embryology The subsequent chapters address patterning in both nervous system and specific parts of the body Each chapter provides a detailed review of current research in a specific area of interest These include topics such as neural specification antero posterior patterning of the neural tube and molecular basis of vertebrate limb development Throughout the volume examples are drawn from a number of species and particular emphasis is placed on recent discoveries about the molecular basis of patterning in vertebrates The book concludes with a chapter which revisits many of the regions of the embryo previously discussed from an evolutionary perspective The Toxicity of Uranium and Plutonium to the Developing Embryos of Fish John E. Till, Stephen V. Kaye, John R. Trabalka, 1976 **International Review of**

Cytology, 2000-05-06 International Review of Cytology presents current advances and comprehensive reviews in cell biology both plant and animal Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth Authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research Somite Formation and Patterning Morphogenesis of the Egg Shell in Drosophila Cell Biology of Cytochrome P 450 in the Liver Alternative Protein Sorting Pathways Structural Correlates of the Transepithelial Water Transport Membrane Trafficking and Processing in Paramecium Role of Natural Benzoxazinones in the Survival Strategy of Plants Malformations of the Nervous System Harvey B. Sarnat, Paolo Curatolo, 2007-09-26 This volume deals with brain development malformations of the central nervous system showcasing a unique approach that furthers research through systematic integration of exciting new developments from fields including molecular genetics neuroimaging and neuropathology By integrating data and research from these disciplines better conceptualization of the mechanisms of the developmental processes is achieved Clinicians will find invaluable insights into complex issues including midline hypoplasias disorders of segmentation of the neural tube and hamartomatous disorders of cellular lineage amongst others The clinical manifestations of central nervous system malformations are also discussed along with new advancements in MRI techniques and analysis including volumetric morphology spectroscopy and functional neuroimaging Sections dedicated to management and treatment are also included in an effort to aid clinicians in their goal of providing better care for individuals affected by these types of malformations A single source that encompasses the various aspects of cerebral malformations A unique approach that furthers research through systematic integration of exciting new developments from fields including molecular genetics neuroimaging and neuropathology New diagnostic tools management protocols and treatments for patient care *Organization of the Early Vertebrate Embryo* Nikolas Zagris, Anne Marie Duprat, Antony Durston, 2013-11-11 This book is the product of a NATO Advanced Study Institute of the same name held at the Anargyrios and Korgialenios School on the island of Spetsai Greece in September 1994 The institute considered the molecular mechanisms which generate the body plan during vertebrate embryogenesis The main topics discussed included commitment and imprinting during germ cell differentiation hierarchies

of inductive cell interactions the molecular functioning of Spemann's organizer and formation of embryonic axes the extracellular matrix and the cytoskeleton in relation to morphogenesis and cell migration neurogenesis and patterning of the neuraxis the regulation of pattern formation by Hox genes and other transcription factors This ASI was marked by a number of special features An important one was that it brought together three different generations of embryologists pioneers in classical embryology scientists who are now leading the present molecular elucidation of vertebrate embryogenesis and the promising younger ASI participants some of whom are already making important contributions to this field This aspect was very important in determining the character of the meeting It exposed ambiguities in the classical embryological dogma and thus facilitated a subtle application of the recent molecular findings to classical problems The second shining feature of this ASI was its evolutionary emphasis The findings presented were obtained in four different vertebrate systems mammals the mouse avians the chicken amphibians *Xenopus* and the teleost fishes zebrafish

Developmental Patterning of the Vertebrate Limb J. Richard Hinchliffe, Juan M. Hurle, Dennis Summerbell, 2012-12-06 Following pioneering work by Harrison on amphibian limbs in the 1920s and by Saunders 1948 on the apical ridge in chick limbs limb development became a classical model system for investigating such fundamental developmental issues as tissue interactions and induction and the control of pattern formation Earlier international conferences at Grenoble 1972 Glasgow 1976 and Storrs Connecticut 1982 reflected the interests and technology of their time Grenoble was concerned with ectoderm mesenchyme interaction but by the time of the Glasgow meeting the zone of polarizing activity ZPA and its role in control of patterning was the dominant theme Storrs produced the first intimations that the ZPA could be mimicked by retinoic acid RA but the diversity of extracellular matrix molecules particularly in skeletogenesis was the main focus of attention By 1990 the paradigms had again shifted Originally the planners of the ARW saw retinoic acid as a possible morphogen controlling skeletal patterning the variety of extracellular matrix components and their roles and the developmental basis of limb evolution as the leading contemporary topics However as planning proceeded it was clear that the new results emerging from the use of homeobox gene probes first developed to investigate the genetic control of patterning of *Drosophila* embryos to analyse the localised expression of patterning genes in limb buds would also be an important theme

Current Topics in Developmental Biology, 1998-02-03 This Series provides a comprehensive survey of the major topics in the field of developmental biology The volumes are valuable to researchers in animal and plant development as well as to students and professionals who want an introduction to cellular and molecular mechanisms of development This year marks a major milestone for the Series as it completes its thirtieth year of publication making it the longest running forum for contemporary issues in developmental biology

Fish Development and Genetics Zhiyuan Gong, Vladimir Korzh, 2004 The zebrafish is the most important fish model in developmental and genetic analyses This book contains 19 review articles covering a broad spectrum of topics from development to genetic tools The contents range from early development the role of maternal factors and gastrulation to

tissue differentiation and organogenesis such as development of the organizer notochord floor plate nervous system somites muscle skeleton and endoderm

Early Embryonic Development of Animals Wolfgang Hennig, 2013-06-05 Four of the major animal systems studied for the mechanisms of their early embryonic development are treated in this volume The articles address the specific questions studied in the various systems discuss the fundamental questions raised by the particular organism and explain the techniques used to find answers to these questions Questions of pattern formation early organogenesis and the genetics of the early development are covered as well as the question of parental imprinting phenomena in mammals which are important for the early differentiation The development of the mouse *Drosophila* *Caenorhabditis* and the zebrafish is emphasized by leading experts of their fields and current problems in each system are exposed For the zebrafish the advantages of this new system for developmental biology studies are summarized and discussed in their values while in the other system the emphasis is laid on one of the actual fields of research

The Embryologic Basis of Craniofacial Structure Michael H. Carstens, 2023-09-27 Focusing on the anatomy of the head and neck this book begins at the cellular level of development detailing bone muscle blood supply and innervation along the way It illustrates the origin of each tissue structure to aid in making prognoses beyond the surface deformation offering typical issues seen in the craniofacial region for example Written by a pediatric Craniofacial plastic surgeon and intended for clinicians and residents in the areas of plastic surgery ENT maxillofacial surgery and orthodontistry this book is the first of its kind to focus so intently on evolution of the craniofacial structure It is neatly broken up into two distinct sections The first section is meant for readers to gain a fundamental understanding of the development of craniofacial structures from embryo onward relying on the concepts of the Neuromeric Theory The chapters in the first section of the book trace the development of the typical patient The second section offers clinical examples of how the Neuromeric Theory can be used to repair or reconstruct various regions of the head and neck Craniofacial clefts including cleft lip and palate ocular hypotelorism anencephaly craniosynostosis and more are detailed Understanding the formation of the tissue structures involved in any given genetic deformation or anomaly enables the clinician to provide a more satisfying outcome for the patient both structurally and aesthetically New and current therapeutic options are explored and supported through original illustrations and photographs to aid in determining the best treatment for each individual patient Embryological Principles of Craniofacial Structure bridges the gap between introductory books on the basic anatomy of the head and neck and the detailed understanding required for corrective surgery of craniofacial defects

[Pattern Formation in Zebrafish](#) Lilianna Solnica-Krezel, 2013-04-17 What makes an ideal model system to study embryonic development The answer to this question has varied in the course of scientific quest depending on the available experimental approaches Yet at the beginning of the new millennium most of the mainstream model organisms have one feature in common they are amenable to genetic analysis Indeed the genetic approach has proven remarkably effective in the dissection of complex biological phenomena starting with

the regulation of the lactose operon in Escherichia coli the decision between the lysogenic and lytic cycles of the lambda phage and the yeast cell cycle control The genetic screens for mutations affecting embryonic development of a fruit fly Drosophila melanogaster carried out by Christiane Niisslein Volhard Eric Wieschaus and Edward Lewis marked the turning point in experimental approaches to embryonic development of more complex organisms The resulting mutants facilitated identification of the key regulatory molecules while their phenotypic classes hinted at the underlying regulatory mechanisms This work not only provided a paradigm for genetic dissection of other developmental processes but also inspired many budding embryologists throughout the world Soon thereafter George Streisinger noted that among vertebrates the zebrafish Danio rerio offered many features facilitating the dissection of nervous system development and function Among these transparency of the embryo ease of husbandry and the highly prolific nature make the zebrafish a good genetic model system

Apoptosis and Senescence in Vertebrate Development Wolfgang Knabe, Marta Magarinos, Stefan Washausen, 2022-02-14

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