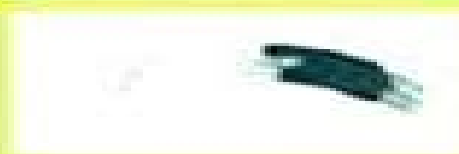


# From Egg to Embryo

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Regional Specification in  
Early Development



J. M. W. SLACK

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SECOND EDITION

# From Egg To Embryo Regional Specification In Early Development

**Nikolas Zagris, Anne Marie  
Duprat, Antony Durston**



## **From Egg To Embryo Regional Specification In Early Development:**

**From Egg to Embryo** J. M. W. Slack, 1983 This book is about the development of the animal embryo starting from the fertilised egg The emphasis is on the problem of pattern formation how cells in different regions of the embryo become programmed to form the various structures of the body in the correct relative positions

**From Egg to Embryo** J. M. W. Slack, 1991-05-30 The last ten years have shown a dramatic revolution in our understanding of early animal development This new edition of the successful first edition describes the result of this revolution and explains how the body plan of an embryo emerges from the newly fertilised egg The book starts with a critical discussion of embryological concepts and explains in simple terms the mathematics of cell states morphogen gradients and threshold responses The experimental evidence on the mechanism of regional specification in *Xenopus* molluscs annelids ascidians as well as *Caenorhabditis* the mouse the chick and *Drosophila* is then discussed The whole chapter devoted to the exciting developments in *Drosophila* provides a clear guide to the subject including a new table outlining the developmentally important genes The emphasis throughout is on conceptual clarity and unity bringing together the mathematical models embryological experiments and molecular biology into a single comprehensive coherent account

**From Egg to Embryo** J. M. W. Slack, 1991-05-30 The past decade has seen a dramatic increase in our understanding of early animal development The revised edition of this excellent book describes the results of this revolution and explains in detail how the body plan of an embryo emerges from a newly fertilized egg The book starts with a critical discussion of embryological concepts and with simple mathematics describes cell states morphogen gradients and threshold responses The experimental evidence of the mechanisms of regional specification in vertebrates insects and selected invertebrates namely frogs *Xenopus* mice chicks fruitflies *Drosophila* mollusks ringed worms sea squirts and nematode worms *Caenorhabditis* is then discussed The progress with *Drosophila* has been particularly impressive and there is an entire chapter devoted to it that provides a clear guide to the subject and includes a new table of developmentally important genes Throughout the emphasis is on conceptual clarity and unity and the book brings together mathematical models embryological experiments and molecular biology in a single comprehensible and coherent account

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

**Hierarchical Genome And Differentiation Waves, The: Novel Unification Of Development, Genetics And Evolution (In 2 Volumes)** Richard Gordon,1999-07-12 Over the past few decades numerous scientists have called for a unification of the fields of embryo development genetics and evolution Each field has glaring holes in its ability to explain the fundamental phenomena of life In this book the author shows how the phenomenon of cell differentiation considered in its temporal and spatial aspects during embryogenesis provides a starting point for a unified theory of multicellular organisms plants fungi and animals including their evolution and genetics This unification is based on the recent discovery of differentiation waves by the author and his colleagues described in the appendices and illustrated by a flip movie prepared by a medical artist To help the reader through the many fields covered a glossary is included This book will be of great value to the researcher and practicing doctors scientists alike The research students will receive an in depth tutorial on the topics covered The seasoned researcher will appreciate the applications and the gold mine of other possibilities for novel research topics

**An Introduction to Systems Biology** Uri Alon,2019-07-12 Praise for the first edition superb beautifully written and organized work that takes an engineering approach to systems biology Alon provides nicely written appendices to explain the basic mathematical and biological concepts clearly and succinctly without interfering with the main text He starts with a mathematical description of transcriptional activation and then describes some basic transcription network motifs patterns that can be combined to form larger networks Nature This text deserves serious attention from any quantitative scientist who hopes to learn about modern biology It assumes no prior knowledge of or even interest in biology One final aspect that must be mentioned is the wonderful set of exercises that accompany each chapter Alon s book should become a standard part of the training of graduate students Physics Today Written for students and researchers the second edition of this best selling textbook continues to offer a clear presentation of design principles that govern the structure and behavior of biological systems It highlights simple recurring circuit elements that make up the regulation of cells and tissues Rigorously classroom tested this edition includes new chapters on exciting advances made in the last decade Features Includes seven new chapters The new edition has 189 exercises the previous edition had 66 Offers new examples relevant to human physiology and disease The book website including course videos can be found here [https://www.weizmann.ac.il/mcb/UriAlon/introduction/systems\\_biology/design\\_principles/biological\\_circuits](https://www.weizmann.ac.il/mcb/UriAlon/introduction/systems_biology/design_principles/biological_circuits)

**Drug Toxicity in Embryonic Development I**

Robert J. Kavlock, George P. Daston, 2012-12-06 Having received the invitation from Springer Verlag to produce a volume on drug induced birth defects for the Handbook of Experimental Pharmacology we asked ourselves what new approach could we offer that would capture the state of the science and bring a new synthesis of the information on this topic to the world's literature. We chose a three pronged approach centered around those particular drugs for which we have a relatively well established basis for understanding how they exert their unwanted effects on the human embryo. We then supplemented this information with a series of reviews of critical biological processes involved in the established normal developmental patterns with emphasis on what happens to the embryo when the processes are perturbed by experimental means. Knowing that the search for mechanisms in teratology has often been inhibited by the lack of understanding of how normal development proceeds we also included chapters describing the amazing new discoveries related to the molecular control of normal morphogenesis for several organ systems in the hope that the experimental toxicologists and molecular biologists will begin to better appreciate each others questions and progress. Several times during the last two years of developing outlines, issuing invitations, reviewing chapters and cajoling belated contributors we have wondered whether we made the correct decision to undertake this effort.

Kinetic Theory of Living Pattern Lionel G. Harrison, 2005-09-15 Discusses the development of the shapes of living organisms and their parts in a field of science in which there are no generally accepted theoretical principles.

The Study of Gene Action Bruce Wallace, Joseph O. Falkinham, 1997 Although the physical nature of the gene was essentially clear by the late 1950s the study of gene action particularly during the development of higher organisms is ongoing. Wallace and Falkinham explain how intimately progress has relied on technology. Initially limited to an examination of external features and subsequently to classical genetics and cytogenetic analyses research was revolutionized by Watson and Crick's discovery of the double helix structure of DNA.

**Developmental Toxicology**

Carole A. Kimmel, 1994-06-30 The Second Edition of this highly regarded work provides a state of the art review of developmental toxicology from basic science, clinical, epidemiological and regulatory perspectives. This new edition highlights the latest approaches to understanding the mechanisms of developmental toxicity, testing pharmaceutical and environmental agents and interpreting developmental toxicity data. The contributors demonstrate how new information on molecular embryology and cell biology is being applied to problems in developmental toxicology. Chapters describe the effects of toxic exposure on the functional development of various organs, examine the relationship between maternal and developmental toxicity and discuss current techniques for studying chemical disposition, metabolism and placental transfer. Close attention is given to the use of mathematical and statistical techniques in data interpretation as well as to the regulatory aspects of testing and risk assessment. Other chapters focus on pre and post conceptional clinical care and on genetic factors in clinical developmental toxicology.

Cellular and Molecular Biology of Plant Seed Development Brian A. Larkins, Indra K. Vasil, 2013-03-09 The beginnings of human civilization can be traced back to the time nearly 12 000 years ago when the early

humans gradually changed from a life of hunting and gathering food to producing food. This beginning of primitive agriculture ensured a dependable supply of food and fostered the living together of people in groups and the development of society. During this time plant seeds were recognized as a valuable source of food and nutrition and began to be used for growing plants for food. Ever since plant seeds have played an important role in the development of the human civilization. Even today seeds of a few crop species such as the cereals and legumes are the primary source of most human food and the predominant commodity in international agriculture. Owing to their great importance as food for humans and in international trade seeds have been a favorite object of study by developmental biologists and physiologists, nutritionists and chemists. A wealth of useful information is available on the biology of seeds.

**Mathematical Models for Biological Pattern Formation** Philip K. Maini, Hans G. Othmer, 2012-12-06 This 121st IMA volume entitled MATHEMATICAL MODELS FOR BIOLOGICAL PATTERN FORMATION is the first of a new series called FRONTIERS IN APPLICATION OF MATHEMATICS. The FRONTIERS volumes are motivated by IMA programs and workshops but are specially planned and written to provide an entree to and assessment of exciting new areas for the application of mathematical tools and analysis. The emphasis in FRONTIERS volumes is on surveys, exposition and outlook to attract more mathematicians and other scientists to the study of these areas and to focus efforts on the most important issues rather than papers on the most recent research results aimed at an audience of specialists. The present volume of peer reviewed papers grew out of the 1998-99 IMA program on Mathematics in Biology, in particular the Fall 1998 emphasis on Theoretical Problems in Developmental Biology and Immunology. During that period there were two workshops on Pattern Formation and Morphogenesis organized by Professors Murray Maini and Othmer. James Murray was one of the principal organizers for the entire year program. I am very grateful to James Murray for providing an introduction and to Philip Maini and Hans Othmer for their excellent work in planning and preparing this first FRONTIERS volume. I also take this opportunity to thank the National Science Foundation whose financial support of the IMA made the Mathematics in Biology program possible.

**Encyclopedia of Stem Cell Research**, 2008 Provides an understanding of the basic concepts in stem cell biology and addresses the politics, ethics and challenges currently facing the field. From publisher description. **Encyclopedia of Stem Cell Research** Clive N. Svendsen, Allison D. Ebert, 2008-08-12 What is a stem cell? We have a basic working definition but the way we observe a stem cell function in a dish may not represent how it functions in a living organism. Only this is clear: Stem cells are the engine room of multicellular organisms, both plants and animals. However, controversies, breakthroughs and frustration continue to swirl in eternal storms through this rapidly moving area of research. But what does the average person make of all this and how can an interested scholar probe this vast sea of information? The Encyclopedia of Stem Cell Research provides a clear understanding of the basic concepts in stem cell biology and addresses the politics, ethics and challenges currently facing the field. While stem cells are exciting alone, they are also clearly fueling the traditional areas of

developmental biology and the field of regenerative medicine These two volumes present more than 320 articles that explore major topics related to the emerging science of stem cell research and therapy

**Key Features** Describes the different types of stem cells that have been reported so far and where possible tries to explain for each age tissue and species what is known about the biology of the cells and their history Captures a strong sense of stem cell biology as it stands today and provides the reader with a reference manual to probe the mysteries of the field Considers various religious legal and political perspectives Includes selected reprints of major journal articles that pertain to the milestones achieved in stem cell research Elucidates stem cell terminology for the nonscientist **Key Themes** Biology Clinical Trials Countries Diseases Ethics History and Technology Industry Institutions Legal Organizations People Politics Religion States With contributions from scholars and institutional experts in the stem cell and social sciences this Encyclopedia provides a primarily nonscientific resource to understanding the complexities of stem cell research for academic and public libraries

**Fish Development And Genetics: The Zebrafish And Medaka Models** Zhiyuan Gong, Vladimir Korzh, 2004-11-02 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 The genetic tools cover morpholino knock down transgenics fish cloning transposons and genome evolution The book also includes two chapters on genome mapping and embryonic stem cells in medaka another important model fish Summarizing the state of the art studies of the zebrafish model and focusing on the molecular aspects of development this book is a valuable reference for students learning the basic aspects of the zebrafish model and for researchers seeking resources in zebrafish research

*National Library of Medicine Current Catalog* National Library of Medicine (U.S.), 1993

**The Origins of Human Potential** Ken Richardson, 2002-09-26 Few scientific debates have been more protracted and intense than whether we are born with our cognitive ability whether our environment moulds it or whether these two things interact to produce it The Origins of Human Potential offers a new insight into the arguments by showing that many of the assumptions on both sides are false Ken Richardson re examines evidence about the nature of genes in development the environment and the development of cognitive ability and the nature of cognitive ability itself Can it really be measured in an IQ test like height or weight Ken Richardson s human centred view describes the evolutionary context of our dynamic changeable environments and the creative individual at the heart of the debate It will be of great relevance to psychologists and education policy makers and should be read by all those with an interest in our children s future

*The Neural Crest* Nicole Le Douarin, Chaya Kalcheim, 1999-11-28 This 1999 edition of The Neural Crest contains comprehensive information about the neural crest a structure unique to the vertebrate embryo which has only a transient existence in early embryonic life The ontogeny of the neural crest embodies the most important issues in developmental

biology as the neural crest is considered to have played a crucial role in evolution of the vertebrate phylum Data that analyse neural crest ontogeny in murine and zebrafish embryos have been included in this revision This revised edition also takes advantage of recent advances in our understanding of markers of neural crest cell subpopulations and a full chapter is now devoted to cell lineage analysis The major research breakthrough since the first edition has been the introduction of molecular biology to neural crest research enabling an elucidation of many molecular mechanisms of neural crest development This book is essential reading for students and researchers in developmental biology cell biology and neuroscience

**Animal Science Annual Volume 2023** ,2023-12-20 Animal Science Annual Volume 2023 explores primary research and review papers covering a broad spectrum of topics such as ecology physiology anatomy health and animal welfare This volume features five chapters each providing new insights into relevant areas of study within Animal Science Topics covered include the ecology of ungulates in the Himalayas the anatomy of the goat alimentary system protein misfolding diseases in animals the study of fossilized horse trackways and the role of dopamine receptors in olfaction learning success in bees Animal Science Annual Volume 2023 will serve as a valuable resource for researchers and educators worldwide

*Probability in Theory-Building* Jerzy Brzeziński,2023-03-13



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