

Embryos, Genes, and
Evolution:
Developmental-Genetic
Basis of Evolutionary
Change

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Embryos Genes Evolution The Developmen

Brian K. Hall, Sally A. Moody



Embryos Genes Evolution The Developmen:

Embryos, Genes, and Evolution Rudolf A. Raff, Thomas C. Kaufman, 1991 **Embryos, Genes and Evolution** Rudolf A. Raff, Thomas C. Kaufman, **Embryos, Genes and Birth Defects** Patrizia Ferretti, Andrew Copp, Cheryll Tickle, Gudrun Moore, 2006-08-04 The first edition of *Embryos Genes and Birth Defects* edited by the late Peter Thorogood was a radical new book aimed at bridging the gap between the medical disciplines of embryology and dysmorphology and recent advances in cellular molecular and developmental biology This new edition remains unique in its breadth and brings up to date our understanding of birth defects and of the strategies utilized to gain such knowledge It features new chapters on human cytogenetics mutagenesis and the eyes and ears The book presents key topics in developmental biology and explains how they provide the foundations for understanding clinical birth defects The first six chapters introduce concepts and strategies adopted to elucidate developmental anomalies leading to birth defects The book then focuses on specific organs and reviews the cellular and molecular mechanisms affecting their development and how disruption of these mechanisms by genetic or environmental factors may underlie certain birth defects The chapters are concise and provide up to date coverage of topics in a format that is easily accessible and yet at the forefront of research Written primarily for paediatricians obstetricians clinical geneticists and allied workers this book guides the reader through the contribution of modern molecular biology to our understanding of human development Developmental and cellular biologists will learn how errors in the cellular and genetic mechanism can lead to classical disorders diseases and syndromes *Evolution and Development* Alan C. Love, 2024-03-07 The intersection of development and evolution has always harbored conceptual issues but many of these are on display in contemporary evolutionary developmental biology evo devo These issues include 1 the precise constitution of evo devo with its focus on both the evolution of development and the developmental basis of evolution and how it fits within evolutionary theory 2 the nature of evo devo model systems that comprise the material of comparative and experimental research 3 the puzzle of how to understand the widely used notion of conserved mechanisms 4 the definition of evolutionary novelties and expectations for how to explain them and 5 the demand of interdisciplinary collaboration that derives from investigating complex phenomena at key moments in the history of life such as the fin limb transition This Element treats these conceptual issues with close attention to both empirical detail and scientific practice to offer new perspectives on evolution and development This title is also available as Open Access on Cambridge Core *Evolutionary Developmental Biology*, 2021-02-16 *Evolutionary Developmental Biology* Volume 141 focuses on recent research in evolutionary developmental biology the science studying how changes in development cause the variations that natural selection operate on Several new hypotheses and models are presented in this volume and these concern how homology may be properly delineated how neural crest and placode cells emerged and how they formed the skull and jaw and how plasticity and developmental symbiosis enable normal development to be regulated by environmental factors New models for homology New hypotheses

for the generation of chordates New models for the roles of plasticity and symbionts in normal development The Oxford Handbook of Philosophy of Biology Michael Ruse, 2008-07-10 This handbook covers the history of philosophy of biology then moves on to evolutionary theory It continues with discussions of molecular biology and ecology and covers biology and ethics as well as biology and religion

Homology Gregory R. Bock, Gail Cardew, 2008-04-30 Homology as a concept became increasingly elusive during the course of the 20th century The central debates and controversies concern both fundamental definitions and the nature of the criteria by which homology is judged Attempts to move away from comparative morphology to ideas based on developmental pathways have tended to founder on the fact that developmental pathways evolve and that similar cells or tissues or structures in animals will often have different developmental origins The use of information about conserved molecules in seemingly conserved developmental processes has also proven controversial In molecular biology the use of the term homology has given rise to more debate although here the issue seems to involve primarily the criteria for assessing whether parts of genes are the same because of shared descent or for other reasons The contributions to the book explore these topics systematically There are chapters on the historical development of the concept of homology and its use in population studies Other chapters deal with issues of homology in morphological and developmental studies in behavioural studies and especially in studies at the level of molecular genetics

Cells in Evolutionary Biology Brian K. Hall, Sally A. Moody, 2018-06-12 This book is the first in a projected series on Evolutionary Cell Biology the intent of which is to demonstrate the essential role of cellular mechanisms in transforming the genotype into the phenotype by transforming gene activity into evolutionary change in morphology This book Cells in Evolutionary Biology evaluates the evolution of cells themselves and the role cells have been viewed to play as agents of change at other levels of biological organization Chapters explore Darwin's use of cells in his theory of evolution and how Weismann's theory of the separation of germ plasma from body cells brought cells to center stage in understanding how acquired changes to cells within generations are not passed on to future generations Chapter 7 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

New Approaches in Chordate and Vertebrate Evolution and Development Juan Pascual-Anaya, Stephanie Bertrand, Salvatore D'Aniello, 2022-05-05

Stephen J. Gould: The Scientific Legacy Gian Antonio Danielli, Alessandro Minelli, Telmo Pievani, 2013-07-23 Stephen J. Gould's greatest contribution to science is a revised version of the theory of evolution which offers today a useful framework for understanding progress in many evolutionary fields His intuitions about the conjunction of evolution and development the role of ecological factors in speciation the multi level interpretation of the units of selection and the interplay between functional pressures and constraints all represent fruitful lines of experimental research His opposition to the progressive representations of evolution the gene centered view of natural history or the adaptationist just so stories has also left its mark on current biology In May 2012 at the Istituto Veneto di Scienze Lettere ed Arti in Venice an

international panel of scientists and philosophers discussed Stephen J Gould's legacy ten years after his death. This book presents a selection of those contributions chosen for their interest and importance. A broad range of themes are covered: Gould's contribution to evolutionary theory including the concept of punctuated equilibria and the importance of his pluralism; the Gouldian view of genome and development; Gould's legacy in anthropology; and finally the significance of his thought for the human sciences. This book provides a fascinating appraisal of the cultural legacy of one of the world's greatest popular writers in the life sciences. This is the first time that scientists including some of Gould's personal friends and co-authors of papers of momentous importance such as Niles Eldredge have come together to strike a balanced view of Gould's intellectual heritage.

Evolutionary Developmental Biology Brian K. Hall, 2012-12-06. Although evolutionary developmental biology is a new field, its origins lie in the last century: the search for connections between embryonic development, ontogeny, and evolutionary change. Phylogeny has been a long one. Evolutionary developmental biology is however more than just a fusion of the fields of developmental and evolutionary biology. It forges a unification of genomic, developmental, organismal, population, and natural selection approaches to evolutionary change. It is concerned with how developmental processes evolve, how evolution produces novel structures, functions, and behaviours, and how development, evolution, and ecology are integrated to bring about and stabilize evolutionary change. The previous edition of this title, published in 1992, defined the terms and laid out the field for evolutionary developmental biology. This field is now one of the most active and fast-growing within biology, and this is reflected in this second edition, which is more than twice the length of the original and brought completely up to date. There are new chapters on major transitions in animal evolution, expanded coverage of comparative embryonic development, and the inclusion of recent advances in genetics and molecular biology. The book is divided into eight parts which place evolutionary developmental biology in the historical context of the search for relationships between development and evolution; detail the historical background leading to evolutionary embryology; explore embryos in development and embryos in evolution; discuss the relationship between embryos, evolution, environment, and ecology; discuss the dilemma of homology; the fact that development evolves; deal with the importance of understanding how embryos measure time and place both through development and evolutionarily through heterochrony and heterotrophy; and set out the principles and processes that underlie evolutionary developmental biology. With over one hundred illustrations and photographs, extensive cross-referencing between chapters and boxes for ancillary material, this latest edition will be of immense interest to graduate and advanced undergraduate students in cell, developmental, and molecular biology, and in zoology, evolution, ecology, and entomology. In fact, anyone with an interest in this new and increasingly important and interdisciplinary field which unifies biology.

Plant Evolutionary Developmental Biology
Alessandro Minelli, 2018-03-01. Compared to animals, plants have been largely neglected in evolutionary developmental biology. Mainstream research has focused on developmental genetics, while a rich body of knowledge in comparative

morphology is still to be exploited No integrated account is available In this volume Minelli fills this gap using the same approach he gave to animals revisiting traditional concepts and providing an articulated analysis of genetic and molecular data Topics covered include leaf complexity and the evolution of flower organs handedness branching patterns flower symmetry and synorganization and less conventional topics such as fractal patterns of plant organization Also discussed is the hitherto neglected topic of the evolvability of temporal phenotypes like a plant's annual biennial or perennial life cycle flowering time and the timing of abscission of flower organs This will be informative reading for anyone in the field of plant evo devo from students to lecturers and researchers

Evolutionary Developmental Biology of Invertebrates 6

Andreas Wanninger, 2015-08-11 This multi author six volume work summarizes our current knowledge on the developmental biology of all major invertebrate animal phyla The main aspects of cleavage embryogenesis organogenesis and gene expression are discussed in an evolutionary framework Each chapter presents an in depth yet concise overview of both classical and recent literature supplemented by numerous color illustrations and micrographs of a given animal group The largely taxon based chapters are supplemented by essays on topical aspects relevant to modern day EvoDevo research such as regeneration embryos in the fossil record homology in the age of genomics and the role of EvoDevo in the context of reconstructing evolutionary and phylogenetic scenarios A list of open questions at the end of each chapter may serve as a source of inspiration for the next generation of EvoDevo scientists Evolutionary Developmental Biology of Invertebrates is a must have for any scientist teacher or student interested in developmental and evolutionary biology as well as in general invertebrate zoology This chapter is dedicated to the Deuterostomia comprising the Echinodermata and Hemichordata usually grouped together as the Ambulacraria as well as the Cephalochordata and the Tunicata

Evolution Wallace

Arthur, 2010-03-11 This book is aimed at students taking courses on evolution in universities and colleges Its approach and its structure are very different from previously published evolution texts The core theme in this book is how evolution works by changing the course of embryonic and post embryonic development In other words it is an evolution text that has been very much influenced by the new approach of evolutionary developmental biology or evo devo Key themes include the following developmental repatterning adaptation and coadaptation gene co option developmental plasticity the origins of evolutionary novelties and body plans and evolutionary changes in the complexity of organisms As can be seen from this list the book includes information across the levels of the gene the organism and the population It also includes the issue of mapping developmental changes onto evolutionary trees The examples used to illustrate particular points range widely including animals plants and fossils I have really enjoyed reading this book One of the strengths of the book is the almost conversational style I found the style easy to read but also feel that it will be invaluable in teaching One of our tasks in university level teaching is to develop students critical thinking skills We need to support them in their intellectual development from a just the facts approach to being able to make critical judgements based on available evidence The

openness and honesty with which Arthur speaks to uncertainty in science is refreshing and will be a baseline for discussions with students Professor Patricia Moore Exeter University This book written as an undergraduate text is a really most impressive book Given the burgeoning interest in the role of developmental change in evolution in recent times this will be a very timely publication The book is well structured and like the author's other books very well written He communicates with a clear lucid style and has the ability to explain even the more difficult concepts in an accessible manner Professor Kenneth McNamara University of Cambridge The companion site can be found at www.wiley.com/go/arthur/evolution Here you download all figures from the book captions tables and table of contents

Renegotiating Disciplinary Fields in the Life Sciences Alessandro Minelli, 2021-02-24 Recent and ongoing debates in biology and the philosophy of biology reveal a widespread dissatisfaction with traditional explanatory frameworks There are also problems with the current definitions or circumscriptions of key concepts such as gene species and homology and even of whole disciplinary fields within the life sciences e.g. developmental biology These contrasting views are arguably a symptom of the need to revisit traditional unchallenged partitions between the specialist disciplines within the life sciences In the diversity of topics addressed and approaches to move beyond the current disciplinary organization the five essays in this volume will hopefully stimulate further exploration towards an improved articulation of life sciences

Developmental Genetics of the Flower, 2006-09-29 Current major interests in this area include the study of higher level phylogenetic relationships and character evolution in the angiosperms floral evolution the genetic basis of key floral differences in basal angiosperms the genetic and genomic consequences of polyploid speciation conservation genetics of rare plant species and phylogeography Developmental Genetics of the Flower provides a series of papers focused on the developmental genetics of flowering as well as the genetic control of the timing of flowering Investigation of speciation mechanisms evolutionary relationships and character evolution in flowering plants and land plants utilizing a variety of experimental approaches are discussed The chapters are excellent reviews of the current fast moving area of research Provides a brief review of genes known to regulate flower development Articles emphasize the classic ABC model of flower development

Evolutionary Biology R. Paul Thompson, Denis Walsh, 2014-03-13 This volume explores the philosophical and biological richness of twenty first century evolution its concepts methods structure and religious implications

The Theory of Evolution and Its Impact Aldo Fasolo, 2011-11-27 Year 2009 was the triumph of Darwin as a global superstar spinning from the pop icon to the actual understanding to what make him a great innovator able to give a turn to whole modern culture Does all this activity mean evolution has lost its ability to excite fear and opposition After such a deluge of books conferences reviews gadgets what is today our vision on theory of Evolution and its Impact These are the questions asked at an inter academy conference held in Torino May 27-29 2010 among the Accademia delle Scienze di Torino the Accademia Nazionale dei Lincei and the Berlin Brandenburgische Akademie der Wissenschaften The present book collects the contributions from the meeting mixing styles arguments topics

history and philosophy of science modern biology and epistemology This kind of inter disciplinary approach may appear erratic but it conveys flashes of lights on the changing scene where the theory of evolution plays This is in line with the idea to reopen the file of the Two Cultures looking at shared problems which are not yet really the Third Culture invoked by Charles Percy Snow half a century ago but they can foster it at least in such a pivotal domain as evolution According to the philosopher Michael Ruse the conclusion is that in fifty years or a hundred years we will still have the theory of the Origin around Great precisely because it does not stand still but remakes itself and grows and changes by virtue of the fact that it gives such a terrific foundation Is Darwinism past its sell by date Not by a long chalk yet *Zygotic and Non-Zygotic Embryogenesis: Evolutionary, Developmental and Practical Aspects* Jorge M. Canhoto, Paloma Moncaleán, Sandra Isabel Correia, Víctor M. Loyola-Vargas, Jonny E. Scherwinski-Pereira, 2023-03-28 **Conceptual Change in Biology** Alan C. Love, 2014-11-07 This volume explores questions about conceptual change from both scientific and philosophical viewpoints by analyzing the recent history of evolutionary developmental biology It features revised papers that originated from the workshop Conceptual Change in Biological Science Evolutionary Developmental Biology 1981 2011 held at the Max Planck Institute for the History of Science in Berlin in July 2010 The Preface has been written by Ron Amundson In these papers philosophers and biologists compare and contrast key concepts in evolutionary developmental biology and their development since the original seminal Dahlem conference on evolution and development held in Berlin in 1981 Many of the original scientific participants from the 1981 conference are also contributors to this new volume and in conjunction with other expert biologists and philosophers specializing on these topics provide an authoritative comprehensive view on the subject Taken together the papers supply novel perspectives on how and why the conceptual landscape has shifted and stabilized in particular ways yielding insights into the dynamic epistemic changes that have occurred over the past three decades This volume will appeal to philosophers of biology studying conceptual change evolutionary developmental biologists focused on comprehending the genesis of their field and evaluating its future directions and historians of biology examining this period when the intersection of evolution and development rose again to prominence in biological science

Decoding **Embryos Genes Evolution The Developmen**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Embryos Genes Evolution The Developmen**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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