



# Evolution, Development, & the Predictable Genome

David L. Stern

# Evolution Development And The Predictable Genome

**Günter P. Wagner**



## **Evolution Development And The Predictable Genome:**

Evolution, Development, and the Predictable Genome David L. Stern, 2011 Bringing evolutionary and developmental biology together Evolution Development and the Predictable Genome uses the insights from generations of evolutionary and developmental biologists to form a solid foundation for future investigation of the genetic and developmental causes of diversity

**Gene Regulatory Mechanisms in Development and Evolution: Insights from Echinoderms**, 2022-02-10 Sea urchins and other echinoderms which have been studied intensively by developmental biologists for more than a century are currently among the most prominent models for elucidating the genomic regulatory processes that control embryogenesis and the evolution of those processes This volume contains reviews from the world's leading researchers who are using echinoderms to address these questions Chapters focus on gene regulatory networks that drive the differentiation and morphogenesis of major embryonic tissues such as the skeleton muscle nervous system immune system pigment cells and germ line and on evolutionary insights from comparative studies of these networks across echinoderms and other taxa Other chapters comprehensively review the architecture and evolution of the cell signaling pathways that establish the early embryonic axes and on recent evolutionary changes in gene networks that have led to dramatic changes in the life history modes of echinoderms This volume provides a comprehensive current picture of exciting research at the interface between developmental genomics and evolution from one of the research communities leading this work Contributions from leading investigators who use echinoderms as model organisms Up to date reviews of developmental gene regulatory networks Current work at the interface between developmental genomics and evolution

Evolution Evolving Kevin N. Lala, Tobias Uller, Nathalie Feiner, Marcus Feldman, Scott F. Gilbert, 2024-09-24 A new account of the central role developmental processes play in evolution A new scientific view of evolution is emerging one that challenges and expands our understanding of how evolution works Recent research demonstrates that organisms differ greatly in how effective they are at evolving Whether and how each organism adapts and diversifies depends critically on the mechanistic details of how that organism operates its development physiology and behavior That is because the evolutionary process itself has evolved over time and continues to evolve The scientific understanding of evolution is evolving too with groundbreaking new ways of explaining evolutionary change In this book a group of leading biologists draw on the latest findings in evolutionary genetics and evo devo as well as novel insights from studies of epigenetics symbiosis and inheritance to examine the central role that developmental processes play in evolution Written in an accessible style and illustrated with fascinating examples of natural history the book presents recent scientific discoveries that expand evolutionary biology beyond the classical view of gene transmission guided by natural selection Without undermining the central importance of natural selection and other Darwinian foundations new developmental insights indicate that all organisms possess their own characteristic sets of evolutionary mechanisms The authors argue that a consideration of developmental phenomena is needed for evolutionary

biologists to generate better explanations for adaptation and biodiversity This book provides a new vision of adaptive evolution *Homology, Genes, and Evolutionary Innovation* Günter P. Wagner, 2014-04-13 A major synthesis of homology written by a top researcher in the field Homology a similar trait shared by different species and derived from common ancestry such as a seal's fin and a bird's wing is one of the most fundamental yet challenging concepts in evolutionary biology This groundbreaking book provides the first mechanistically based theory of what homology is and how it arises in evolution Günter Wagner one of the preeminent researchers in the field argues that homology or character identity can be explained through the historical continuity of character identity networks that is the gene regulatory networks that enable differential gene expression He shows how character identity is independent of the form and function of the character itself because the same network can activate different effector genes and thus control the development of different shapes sizes and qualities of the character Demonstrating how this theoretical model can provide a foundation for understanding the evolutionary origin of novel characters Wagner applies it to the origin and evolution of specific systems such as cell types skin hair and feathers limbs and digits and flowers The first major synthesis of homology to be published in decades *Homology Genes and Evolutionary Innovation* reveals how a mechanistically based theory can serve as a unifying concept for any branch of science concerned with the structure and development of organisms and how it can help explain major transitions in evolution and broad patterns of biological diversity [40 Years of Evolution](#) Peter R. Grant, B. Rosemary Grant, 2024-11-12 A new revised edition of Peter and Rosemary Grant's synthesis of their decades of research on Daphne Island [Challenging the Modern Synthesis](#) Philippe Huneman, Denis M. Walsh, 2017-08-17 Since its origin in the early 20th century the Modern Synthesis theory of evolution has grown to become the orthodox view on the process of organic evolution Its central defining feature is the prominence it accords to genes in the explanation of evolutionary dynamics Since the advent of the 21st century however the Modern Synthesis has been subject to repeated and sustained challenges These are largely empirically driven In the last two decades evolutionary biology has witnessed unprecedented growth in the understanding of those processes that underwrite the development of organisms and the inheritance of characters The empirical advances usher in challenges to the conceptual foundations of evolutionary theory The extent to which the new biology challenges the Modern Synthesis has been the subject of lively debate Many current commentators charge that the new biology of the 21st century calls for a revision extension or wholesale rejection of the Modern Synthesis Theory of evolution Defenders of the Modern Synthesis maintain that the theory can accommodate the exciting new advances in biology The original essays collected in this volume survey the various challenges to the Modern Synthesis arising from the new biology of the 21st century The authors are evolutionary biologists philosophers of science and historians of biology from Europe and North America Each of the essays discusses a particular challenge to the Modern Synthesis treatment of inheritance development or adaptation Taken together the essays cover a spectrum of views from those that contend that the

Modern Synthesis can rise to the challenges of the new biology with little or no revision required to those that call for the abandonment of the Modern Synthesis The collection will be of interest to researchers and students in evolutionary biology and the philosophy and history of the biological sciences Mechanisms of Life History Evolution Thomas Flatt,Andreas Heyland,2011-05-12 This interdisciplinary volume unites evolutionary and molecular biologists from various fields life history theory molecular biology developmental biology aging phenotypic plasticity social behaviour and endocrinology who use studies of molecular mechanisms to solve fundamental questions in life history evolution in a variety of organisms

Evolutionary Theory Niles Eldredge,Telmo Pievani,Emanuele Serrelli,Ilya Tëmkin,2016-09-23 The natural world is infinitely complex and hierarchically structured with smaller units forming the components of progressively larger systems molecules make up cells cells comprise tissues and organs that are in turn parts of individual organisms which are united into populations and integrated into yet more encompassing ecosystems In the face of such awe inspiring complexity there is a need for a comprehensive non reductionist evolutionary theory Having emerged at the crossroads of paleobiology genetics and developmental biology the hierarchical approach to evolution provides a unifying perspective on the natural world and offers an operational framework for scientists seeking to understand the way complex biological systems work and evolve Coedited by one of the founders of hierarchy theory and featuring a diverse and renowned group of contributors this volume provides an integrated comprehensive cutting edge introduction to the hierarchy theory of evolution From sweeping historical reviews to philosophical pieces theoretical essays and strictly empirical chapters it reveals hierarchy theory as a vibrant field of scientific enterprise that holds promise for unification across the life sciences and offers new venues of empirical and theoretical research Stretching from molecules to the biosphere hierarchy theory aims to provide an all encompassing understanding of evolution and with this first collection devoted entirely to the concept will help make transparent the fundamental patterns that propel living systems **Evo-Devo of Color Pattern Formation** Ricardo

Mallarino,Marcus Kronforst,Marie Manceau,2021-11-01 Encyclopedia of Evolutionary Biology ,2016-04-14 Encyclopedia of Evolutionary Biology Four Volume Set is the definitive go to reference in the field of evolutionary biology It provides a fully comprehensive review of the field in an easy to search structure Under the collective leadership of fifteen distinguished section editors it is comprised of articles written by leading experts in the field providing a full review of the current status of each topic The articles are up to date and fully illustrated with in text references that allow readers to easily access primary literature While all entries are authoritative and valuable to those with advanced understanding of evolutionary biology they are also intended to be accessible to both advanced undergraduate and graduate students Broad topics include the history of evolutionary biology population genetics quantitative genetics speciation life history evolution evolution of sex and mating systems evolutionary biogeography evolutionary developmental biology molecular and genome evolution coevolution phylogenetic methods microbial evolution diversification of plants and fungi diversification of animals and applied evolution

Presents fully comprehensive content allowing easy access to fundamental information and links to primary research  
 Contains concise articles by leading experts in the field that ensures current coverage of each topic Provides ancillary learning tools like tables illustrations and multimedia features to assist with the comprehension process     Advances in Evolutionary Developmental Biology J. Todd Streelman, 2013-10-17 Providing outstanding breadth of coverage in evo devo  
 Advances in Evolutionary Developmental Biology provides a comprehensive review of the milestones of research in evolution and development and outlines the exciting research agenda for the field going forward Compiling the viewpoints of a diverse group of field experts this timely text expands the now mature science of evo devo into more complex areas of research This essential reference is destined to become the go to source for ideas and hypotheses for a new generation of graduate students in evolutionary and developmental biology     *Genes and Evolution* , 2016-06-06 Genes and Evolution the latest volume in the Current Topics in Developmental Biology series covers genes and evolution with contributions from an international board of authors The chapters provide a comprehensive set of reviews covering such topics as genes and plant domestication gene networks phenotypic loss in vertebrates reproducible evolutionary changes and epithelial tissue Covers the area of genes and evolution Contains invaluable contributions from an international board of authors Provides a comprehensive set of reviews covering such topics as genes and plant domestication gene networks phenotypic loss in vertebrates reproducible evolutionary changes and epithelial tissue     **Understanding Evolution** Kostas Kampourakis, 2014-04-03 Current books on evolutionary theory all seem to take for granted the fact that students find evolution easy to understand when actually from a psychological perspective it is a rather counterintuitive idea Evolutionary theory like all scientific theories is a means to understanding the natural world Understanding Evolution is intended for undergraduate students in the life sciences biology teachers or anyone wanting a basic introduction to evolutionary theory Covering core concepts and the structure of evolutionary explanations it clarifies both what evolution is about and why so many people find it difficult to grasp The book provides an introduction to the major concepts and conceptual obstacles to understanding evolution including the development of Darwin's theory and a detailed presentation of the most important evolutionary concepts Bridging the gap between the concepts and conceptual obstacles Understanding Evolution presents evolutionary theory with a clarity and vision students will quickly appreciate     *Handbook of Evolutionary Thinking in the Sciences* Thomas Heams, Philippe Huneman, Guillaume Lecointre, Marc Silberstein, 2014-11-23 The Darwinian theory of evolution is itself evolving and this book presents the details of the core of modern Darwinism and its latest developmental directions The authors present current scientific work addressing theoretical problems and challenges in four sections beginning with the concepts of evolution theory its processes of variation heredity selection adaptation and function and its patterns of character species descent and life The second part of this book scrutinizes Darwinism in the philosophy of science and its usefulness in understanding ecosystems whilst the third section deals with its application in disciplines beyond the

biological sciences including evolutionary psychology and evolutionary economics Darwinian morality and phylolinguistics The final section addresses anti Darwinism the creationist view and issues around teaching evolution in secondary schools The reader learns how current experimental biology is opening important perspectives on the sources of variation and thus of the very power of natural selection This work examines numerous examples of the extension of the principle of natural selection and provides the opportunity to critically reflect on a rich theory on the methodological rigour that presides in its extensions and exportations and on the necessity to measure its advantages and also its limits Scholars interested in modern Darwinism and scientific research its concepts research programs and controversies will find this book an excellent read and those considering how Darwinism might evolve how it can apply to the human sciences and other disciplines beyond its origins will find it particularly valuable Originally produced in French *Les Mondes Darwiniens* the scope and usefulness of the book have led to the production of this English text to reach a wider audience This book is a milestone in the impressive penetration by Francophone scholars into the world of Darwinian science its historiography and philosophy over the last two decades Alex Rosenberg R Taylor Cole Professor of Philosophy Duke University Until now this useful and comprehensive handbook has only been available to francophones Thanks to this invaluable new translation this collection of insightful and original essays can reach the global audience it deserves Tim Lewens University of Cambridge

*Advances in Genetics*, 2016-10-28 *Advances in Genetics* provides the latest information on the rapidly evolving field of genetics presenting new medical breakthroughs that are occurring as a result of advances in our knowledge of the topic The book continually publishes important reviews of the broadest interest to geneticists and their colleagues in affiliated disciplines critically analyzing future directions Critically analyzes future directions for the study of clinical genetics Written and edited by recognized leaders in the field Presents new medical breakthroughs that are occurring as a result of advances in our knowledge of genetics

**Macroevolution** Emanuele Serrelli, Nathalie Gontier, 2015-02-13 This book is divided in two parts the first of which shows how beyond paleontology and systematics macroevolutionary theories apply key insights from ecology and biogeography developmental biology biophysics molecular phylogenetics and even the sociocultural sciences to explain evolution in deep time In the second part the phenomenon of macroevolution is examined with the help of real life history case studies on the evolution of eukaryotic sex the formation of anatomical form and body plans extinction and speciation events of marine invertebrates hominin evolution and species conservation ethics The book brings together leading experts who explain pivotal concepts such as Punctuated Equilibria Stasis Developmental Constraints Adaptive Radiations Habitat Tracking Turnovers Mass Extinctions Species Sorting Major Transitions Trends and Hierarchies key premises that allow macroevolutionary epistemic frameworks to transcend microevolutionary theories that focus on genetic variation selection migration and fitness Along the way the contributing authors review ongoing debates and current scientific challenges detail new and fascinating scientific tools and techniques that allow us to cross the classic borders

between disciplines demonstrate how their theories make it possible to extend the Modern Synthesis present guidelines on how the macroevolutionary field could be further developed and provide a rich view of just how it was that life evolved across time and space In short this book is a must read for active scholars and because the technical aspects are fully explained it is also accessible for non specialists Understanding evolution requires a solid grasp of above population phenomena Species are real biological individuals and abiotic factors impact the future course of evolution Beyond observation when the explanation of macroevolution is the goal we need both evidence and theory that enable us to explain and interpret how life evolves at the grand scale

**Diversity and Evolution of Butterfly Wing Patterns** Toshio Sekimura,H. Frederik Nijhout,2017-08-29 This book facilitates an integrative understanding of the development genetics and evolution of butterfly wing patterns To develop a deep and realistic understanding of the diversity and evolution of butterfly wing patterns it is essential and necessary to approach the problem from various kinds of key research fields such as evo devo eco devo developmental genetics ecology and adaptation food plants and theoretical modeling The past decade and a half has seen a veritable revolution in our understanding of the development genetics and evolution of butterfly wing patterns In addition studies of how environmental and climatic factors affect the expression of color patterns has led to increasingly deeper understanding of the pervasiveness and underlying mechanisms of phenotypic plasticity In recognition of the great progress in research on the biology an international meeting titled Integrative Approach to Understanding the Diversity of Butterfly Wing Patterns IABP 2016 was held at Chubu University Japan in August 2016 This book consists of selected contributions from the meeting Authors include main active researchers of new findings of corresponding genes as well as world leaders in both experimental and theoretical approaches to wing color patterns The book provides excellent case studies for graduate and undergraduate classes in evolution genetics genomics developmental biology ecology biochemistry and also theoretical biology opening the door to a new era in the integrative approach to the analysis of biological problems This book is open access under a CC BY 4 0 license

*Evolution's Wedge* David W. Pfennig,Karin S. Pfennig,2012-10-25 Despite Darwin's emphasis competition's role in diversification remains controversial and largely underappreciated

**Convergent Evolution** George R. McGhee,2011 Convergent evolution occurs on all levels from tiny organic molecules to entire ecosystems of species

*Insect Mouthparts* Harald W. Krenn,2019-12-09 This is the first comprehensive book focusing on the form and function of insect mouthparts Written by leading experts it reviews the current knowledge on feeding types and the evolution of mouthparts and presents new research approaches The richly illustrated articles cover topics ranging from functional morphology biomechanics of biting and chewing and the biophysics of fluid feeding to the morphogenesis and genetics of mouthpart development ecomorphology in flower visiting insects as well as the evolution of mouthparts including fossil records Intended for entomologists and scientists interested in interdisciplinary approaches the book provides a solid basis for future scientific work Chapter 6 of this book is available open access under a CC BY 4 0 license at [link.springer.com](https://link.springer.com)



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