



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

Homology, Genes, and Evolutionary Innovation Günter P. Wagner, 2024-11-01 Shows the sweep of Wagner's creative and rigorous thinking One of the most exciting books in evolutionary biology I have read in a long time Douglas J Futuyma coeditor of The Princeton Guide to Evolution Winner of the Daniel Giraud Elliot Medal National Academy of Sciences 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 Deeply thought provoking Peter Moore The Bulletin **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 *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 *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

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 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 **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 Science John Michels (Journalist),2011 Development as an Evolutionary Process Rudolf A.

Raff,1987 **Evolutionary Processes and Metaphors** Mae-Wan Ho,Sidney W. Fox,1988-06-03 Evolutionary Processes and Metaphors Edited by Mae Wan Ho Department of Biology The Open University UK Sidney W Fox Institute for Molecular and Cellular Evolution University of Miami USA The current evolutionary debate encompasses protobiotic chemistry at one extreme and human sociobiology at the other Meanwhile significant advances continue to be made in many scientific disciplines which have far reaching implications on our view of nature Although it is now generally felt that neo Darwinism at least in its orthodox form is no longer an adequate theory of evolution very few attempts have yet been made to articulate a coherent alternative out of the many voices of dissent The purpose of the present volume is two fold to work towards a new evolutionary synthesis which takes full account of contemporary knowledge in all disciplines and to examine explicitly the metaphorical basis of evolutionary theories old and new as this has a powerful impact on our humanistic perspectives which underpin all social and political actions We have brought together representatives of two groups of workers those who ultimately believe in working within a transformed neo Darwinism and others who advocate a more radical reorientation away from the orthodoxy Despite their fundamentally different affiliations they are nonetheless able to communicate on questions of evolutionary concepts and mechanisms and their wider relevance to science and society New insights are presented on major issues such as the physicochemical underpinnings of life processes the meaning of natural selection the nature of variation heredity and morphogenesis the integration of organism and environment the active role of the organism in evolution and the evolution of human society The new synthesis which is emerging is an integrated multilevel and multidisciplinary approach to evolution which accords not only with the state of present day knowledge but with our deepest experience of nature Molecular Strategies in Biological Evolution Lynn Helena Caporale,1999 This reference work the result of a conference co chaired with Nobel laureate Werner Arber addresses the molecular strategies by which lineages of organisms respond to challenges and opportunities in their environment It explores the notion that organisms have evolved the ability to modulate the rate location and extent of genetic variation Jumps in efficiency made possible by development of novel efficient evolutionary strategies could fuel rapid saltatory expansion of species into novel niches as each innovation evolves An up to date assessment is provided on biochemical mechanisms available to modulate the rate of genetic change at specific sites within a genome the induction in certain environments of enzymes with altered sequence dependent recombination mismatch repair and or replication fidelity and statistical evidence for nonrandom genetic events This discussion of genomic strategies for evolution has profound implications for basic biology and evolutionary theory The subjects explored are important ones in understanding inherited diseases tumor progression and the challenges posed by pathogenic organisms McGraw-Hill Yearbook of Science and Technology, 2010 McGraw-Hill,2009-12-22 More than 150 articles explore the latest advances in science and technology For more than 45 years this annual publication has made information on the latest trends and developments in science and technology accessible to non specialists through concise

well illustrated articles Readers will find 150 articles from 200 leaders in their respective fields covering disciplines from Astronomy to Zoology The Yearbook will be of interest to students writers researchers professionals and general readers

Terrestrial Palaeoecology and Global Change Valentin Abramovich Krasilov, 2003 This book critically evaluates the currently popular ideas of global change based on the plate tectonics extraterrestrial impacts greenhouse warming etc and offers alternative models Krasilov presents ecosystem evolution as a sustainability oriented process with an increase in the biomass to dead mass ratio as a measure of progress This general tendency is reversed by the geobiospheric crises starting in the earths interior and surfacing as the concerted geomagnetic tectonomagmatic geochemical and climatic events These affect biota through turnovers of biotic communities and the adequate changes in population adaptive strategies a major force under the species originations and extinctions as well as the genomic evolution The evolution of humans is envisaged as guiding this species to the role of the earths custodian The book is important for evolutionists ecologists geologists climatologists geneticists integrative biologists botanists zoologists and the general educated person who is intrigued by the dynamic historical processes which shape the evolution of biosphere It could be used as a course book for undergraduate and graduate studies and is an excellent example of inspiring and creative interdisciplinary research of our planet Valentin Krasilov is the author of 20 books among them the Palaeoecology of Terrestrial Plants Cretaceous Period Angiosperm Origins Ecosystem and Ecosystem Evolution etc The new book is based on his lifetime experience in the fields of palaeobotany palaeoecology structural geology and evolutionary biology *Genome Research* ,2009 **Russian Journal of Developmental Biology** ,2006 **The Logic of Life** C. A. R. Boyd, Denis Noble, 1993 A highly challenging collection of essays by eminent scientists on the theme of integrative approaches to physiological questions this book discusses the changing boundaries between different disciplines in modern experimental biology The contributors are experts in the fields of integrative physiology cellular evolution control mechanisms endocrinology and behavioral biology Conceived as a tribute to the 1993 International Congress of Physiological Sciences this important work matches the immense challenge of modern biological science at the end of the twentieth century *Transposable Elements and Evolution* J. F. McDonald, 1993-09-30 In the summer of 1992 a distinguished group of molecular population and evolutionary geneticists assembled on the campus of the University of Georgia in Athens USA to discuss the relevance of their research to the role played by transposable elements TEs in evolution The meeting consisted of a series of informal discussions of issues brought up in papers written by the participants and distributed among them prior to the meeting These papers and the transcripts of the ensuing discussions are presented in this volume **Molecular Medicine** ,1999

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