GENOMIC CONTROL PROCESS

Development and Evolution

Isabelle S. Peter
Eric H. Davidson

Genomic Control Process Development And Evolution

Sara Green

Genomic Control Process Development And Evolution:

Genomic Control Process Isabelle S. Peter,Eric H. Davidson,2015-01-21 Genomic Control Process explores the biological phenomena around genomic regulatory systems that control and shape animal development processes and which determine the nature of evolutionary processes that affect body plan Unifying and simplifying the descriptions of development and evolution by focusing on the causality in these processes it provides a comprehensive method of considering genomic control across diverse biological processes This book is essential for graduate researchers in genomics systems biology and molecular biology seeking to understand deep biological processes which regulate the structure of animals during development Covers a vast area of current biological research to produce a genome oriented regulatory bioscience of animal life Places gene regulation embryonic and postembryonic development and evolution of the body plan in a unified conceptual framework Provides the conceptual keys to interpret a broad developmental and evolutionary landscape with precise experimental illustrations drawn from contemporary literature Includes a range of material from developmental phenomenology to quantitative and logic models from phylogenetics to the molecular biology of gene regulation from animal models of all kinds to evidence of every relevant type Demonstrates the causal power of system level understanding of genomic control process Conceptually organizes a constellation of complex and diverse biological phenomena Investigates fundamental developmental control system logic in diverse circumstances and expresses these in conceptual models Explores mechanistic evolutionary processes illuminating the evolutionary consequences of developmental control systems as they are encoded in the genome *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 **Philosophy of Systems Biology** Sara Green,2016-12-15 The emergence of systems biology raises many fascinating questions What does it mean to take a systems

approach to problems in biology To what extent is the use of mathematical and computational modelling changing the life sciences How does the availability of big data influence research practices What are the major challenges for biomedical research in the years to come This book addresses such questions of relevance not only to philosophers and biologists but also to readers interested in the broader implications of systems biology for science and society The book features reflections and original work by experts from across the disciplines including systems biologists philosophers and interdisciplinary scholars investigating the social and educational aspects of systems biology In response to the same set of questions the experts develop and defend their personal perspectives on the distinctive character of systems biology and the challenges that lie ahead Readers are invited to engage with different views on the questions addressed and may explore numerous themes relating to the philosophy of systems biology This edited work will appeal to scholars and all levels from undergraduates to researchers and to those interested in a variety of scholarly approaches such as systems biology mathematical and computational modelling cell and molecular biology genomics systems theory and of course philosophy of biology **Evolution, Development and Complexity** Georgi Yordanov Georgiev,John M. Smart,Claudio L. Flores Martinez,Michael E. Price,2019-06-25 This book explores the universe and its subsystems from the three lenses of evolutionary contingent developmental predictable and complex adaptive processes at all scales It draws from prolific experts within the academic disciplines of complexity science physical science information and computer science theoretical and evo devo biology cosmology astrobiology evolutionary theory developmental theory and philosophy The chapters come from a Satellite Meeting Evolution Development and Complexity EDC hosted at the Conference on Complex Systems in Cancun 2017 The contributions have been peer reviewed and contributors from outside the conference were invited to submit chapters to ensure full coverage of the topics This book explores many issues within the field of EDC such as the interaction of evolutionary stochasticity and developmental determinism in biological systems and what they might teach us about these twin processes in other complex systems This text will appeal to students and researchers within the complex systems and EDC fields **Phenotypic Switching** Herbert Levine,Mohit Kumar Jolly,Prakash Kulkarni,Vidyanand Nanjundiah,2020-06-10 Phenotypic Switching Implications in Biology and Medicine provides a comprehensive examination of phenotypic switching across biological systems including underlying mechanisms evolutionary significance and its role in biomedical science Contributions from international leaders discuss conceptual and theoretical aspects of phenotypic plasticity its influence over biological development differentiation biodiversity and potential applications in cancer therapy regenerative medicine and stem cell therapy among other treatments Chapters discuss fundamental mechanisms of phenotypic switching including transition states cell fate decisions epigenetic factors stochasticity protein based inheritance specific areas of human development and disease relevance phenotypic plasticity in melanoma prostate cancer breast cancer non genetic heterogeneity in cancer hepatitis C and more This book is essential for active researchers basic and translational

scientists clinicians postgraduates and students in genetics human genomics pathology bioinformatics developmental biology evolutionary biology and adaptive opportunities in yeast Thoroughly addresses the conceptual experimental and translational aspects that underlie phenotypic plasticity Emphasizes quantitative approaches nonlinear dynamics mechanistic insights and key methodologies to advance phenotypic plasticity studies Features a diverse range of chapter contributions from international leaders in the field **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 Echinoderms Part B ,2019-04-02 Echinoderms Volume 151 the latest release in the Methods in Cell Biology series highlights advances in the field with this update presenting chapters on Echinoderm Genome Databases analysis of gene regulatory networks using ATAC seq and RNA seq to increase resolution in GRN connectivity multiplex cis regulatory analysis experimental approaches GRN signal pathways BACs analysis of chromatin accessibility using ATAC seq analysis of sea urchin proteins Click IT CRISPR Cas9 mediated genome editing in sea urchins super resolution and in toto imaging of echinoderm embryos and methods for analysis of intracellular ion signals in sperm eggs and embryos Presents clear concise protocols provided by experts who have established the echinoderms as a model systems Highlights new advances in the field with this update presenting interesting chapters on echinoderms

Essence in the Age of Evolution Christopher J. Austin,2018-10-10 This book offers a novel defence of a highly contested philosophical position biological natural kind essentialism This theory is routinely and explicitly rejected for its purported inability to be explicated in the context of contemporary biological science and its supposed incompatibility with the process and progress of evolution by natural selection Christopher J Austin challenges these objections and in conjunction with contemporary scientific advancements within the field of evolutionary developmental biology the book utilises a contemporary neo Aristotelian metaphysics of dispositional properties or causal powers to provide a theory of essentialism centred on the developmental architecture of organisms and its role in the evolutionary process By defending a novel theory of Aristotelian biological natural kind essentialism Essence in the Age of Evolution represents the fresh and exciting union of cutting edge philosophical insight and scientific knowledge *Chordate Origins and Evolution* Noriyuki

Satoh,2016-07-14 Chordate Origins and Evolution The Molecular Evolutionary Road to Vertebrates focuses on echinoderms starfish sea urchins and others hemichordates acorn worms etc cephalochordates lancelets urochordates or tunicates ascidians larvaceans and others and vertebrates In general evolution of these groups is discussed independently on a larger scale ambulacrarians echi hemi and chordates cephlo uro vert Until now discussion of these topics has been somewhat fragmented and this work provides a unified presentation of the essential information In the more than 150 years since Charles Darwin proposed the concept of the origin of species by means of natural selection which has profoundly affected all fields of biology and medicine the evolution of animals metazoans has been studied discussed and debated extensively Following many decades of classical comparative morphology and embryology the 1980s marked a turning point in studies of animal evolution when molecular biological approaches including molecular phylogeny MP molecular evolutionary developmental biology evo devo and comparative genomics CG began to be employed There are at least five key events in metazoan evolution which include the origins of 1 diploblastic animals such as cnidarians 2 triploblastic animals or bilaterians 3 protostomes and deuterostomes 4 chordates among deuterostomes and 5 vertebrates among chordates The last two have received special attention in relation to evolution of human beings During the past two decades great advances have been made in this field especially in regard to molecular and developmental mechanisms involved in the evolution of chordates For example the interpretation of phylogenetic relationships among deuterostomes has drastically changed In addition we have now obtained a large quantity of MP evo devo and CG information on the origin and evolution of chordates Covers the most significant advances in this field to give readers an understanding of the interesting biological issues involved Provides a unified presentation of essential information regarding each phylum and an integrative understanding of molecular mechanisms involved in the origin and evolution of chordates Discusses the evolutionary scenario of chordates based on two major characteristic features of animals namely modes of feeding energy sources and reproduction as the two main forces driving animal evolution and benefiting dialogue for future studies of animal evolution Essays on Developmental Biology Part B Paul Wassarman,2016-03-10 In 2016 Current Topics in Developmental Biology CTDB will celebrate its 50th or golden anniversary To commemorate the founding of CTDB by Aron Moscona 1921 2009 and Alberto Monroy 1913 1986 in 1966 a two volume set of CTDB volumes 116 and 117 entitled Essays on Development will be published by Academic Press Elsevier in early 2016 The volumes are edited by Paul M Wassarman series editor of CTDB and include contributions from dozens of outstanding developmental biologists from around the world Overall the essays provide critical reviews and discussion of developmental processes for a variety of model organisms Many essays relate the history of a particular area of research others personal experiences in research and some are quite philosophical Essays on Development provides a window onto the rich landscape of contemporary research in developmental biology and should be useful to both students and investigators for years to come Covers the area of developmental processes for a variety of model organisms

International board of authors Part of two 50th Anniversary volumes proving a comprehensive set of reviews edited by Serial Editor Paul M Wassarman **Levels of Organization in the Biological Sciences** Daniel S. Brooks,James DiFrisco,William C. Wimsatt,2021-08-24 Scientific philosophers examine the nature and significance of levels of organization a core structural principle in the biological sciences This volume examines the idea of levels of organization as a distinct object of investigation considering its merits as a core organizational principle for the scientific image of the natural world It approaches levels of organization roughly the idea that the natural world is segregated into part whole relationships of increasing spatiotemporal scale and complexity in terms of its roles in scientific reasoning as a dynamic open ended idea capable of performing multiple overlapping functions in distinct empirical settings The contributors scientific philosophers with longstanding ties to the biological sciences discuss topics including the philosophical and scientific contexts for an inquiry into levels whether the concept can actually deliver on its organizational promises the role of levels in the development and evolution of complex systems conditional independence and downward causation and the extension of the concept into the sociocultural realm Taken together the contributions embrace the diverse usages of the term as aspects of the big picture of levels of organization Contributors Jan Baedke Robert W Batterman Daniel S Brooks James DiFrisco Markus I Eronen Carl Gillett Sara Green James Griesemer Alan C Love Angela Potochnik Thomas Reydon Ilya T mkin Jon Umerez William C Wimsatt James Woodward Essays on Developmental Biology Part A ,2016-03-09 In 2016 Current Topics in Developmental Biology CTDB will celebrate its 50th or golden anniversary To commemorate the founding of CTDB by Aron Moscona 1921 2009 and Alberto Monroy 1913 1986 in 1966 a two volume set of CTDB volumes 116 and 117 entitled Essays on Development will be published by Academic Press Elsevier in early 2016 The volumes are edited by Paul M Wassarman series editor of CTDB and include contributions from dozens of outstanding developmental biologists from around the world Overall the essays provide critical reviews and discussion of developmental processes for a variety of model organisms Many essays relate the history of a particular area of research others personal experiences in research and some are quite philosophical Essays on Development provides a window onto the rich landscape of contemporary research in developmental biology and should be useful to both students and investigators for years to come Covers the area of developmental processes for a variety of model organisms International board of authors Part of two 50th Anniversary volumes proving a comprehensive set of reviews edited by Serial Editor Paul M Wassarman **The Theory of Evolution** Samuel M. Scheiner,David P. Mindell,2020-01-07 Darwin s nineteenth century writings laid the foundations for modern studies of evolution and theoretical developments in the mid twentieth century fostered the Modern Synthesis Since that time a great deal of new biological knowledge has been generated including details of the genetic code lateral gene transfer and developmental constraints Our improved understanding of these and many other phenomena have been working their way into evolutionary theory changing it and improving its correspondence with evolution in nature And while the study of evolution is thriving both as a basic science to

understand the world and in its applications in agriculture medicine and public health the broad scope of evolution operating across genes whole organisms clades and ecosystems presents a significant challenge for researchers seeking to integrate abundant new data and content into a general theory of evolution This book gives us that framework and synthesis for the twenty first century The Theory of Evolution presents a series of chapters by experts seeking this integration by addressing the current state of affairs across numerous fields within evolutionary biology ranging from biogeography to multilevel selection speciation and macroevolutionary theory By presenting current syntheses of evolution s theoretical foundations and their growth in light of new datasets and analyses this collection will enhance future research and understanding

Creative Complex Systems Kazuo Nishimura,Masatoshi Murase,Kazuyoshi Yoshimura,2021-10-26 In recent years problems such as environmental and economic crises and pandemics caused by new viruses have been occurring on a global scale Globalization brings about benefits but it can increase the potential risks of systemic problems leading to system wide disruptions The coronavirus pandemic declared on March 11 2020 by the World Health Organization has revealed social disparities in the form of a higher risk of death for people of low socioeconomic status and has caused massive destruction of the economy and of globalization itself Extensive efforts to cope with these challenges have often led to the emergence of additional problems due to the chain of hidden causation What can be done to protect against such emerging challenges Despite the resulting complexity once these individual problems are considered as different aspects of a single whole seemingly contradictory issues can become totally understandable as they can be integrated into a single coherent framework This is the integrationist approach in contrast to the reductionist approach Situations of this kind are truly relevant to understanding the question What are creative complex systems This book features contributions by members and colleagues of the Kyoto University International Research Unit of Integrated Complex System Science It broadens our outlook from the traditional view of stability in which global situations are eventually stabilized after the impact of destruction to creative complex systems Chapter 1 David Pines and Me is available open access under a Creative Commons Attribution 4 0 International License via link springer com

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 **Behavior and Culture in One Dimension** Dennis Waters,2021-03-08 Behavior and Culture in One Dimension adopts a broad interdisciplinary approach presenting a unified theory of sequences and their functions and an overview of how they underpin the evolution of complexity Sequences of DNA guide the functioning of the living world sequences of speech and writing choreograph the intricacies of human culture and sequences of code oversee the operation of our literate technological civilization These linear patterns function under their own rules which have never been fully explored It is time for them to get their due This book explores the one dimensional sequences that orchestrate the structure and behavior of our three dimensional habitat Using Gibsonian concepts of perception action and affordances as well as the works of Howard Pattee the book examines the role of sequences in the human behavioral and cultural world of speech writing and mathematics The book offers a Darwinian framework for understanding human cultural evolution and locates the two major informational transitions in the origins of life and civilization It will be of interest to students and researchers in ecological psychology linguistics cognitive science and the social and biological sciences **Development of Sensory and Neurosecretory Cell Types** Gerhard Schlosser,2021-06-17 Most of the cranial sense organs of vertebrates arise from embryonic structures known as cranial placodes Such placodes also give rise to sensory neurons that transmit information to the brain as well as to many neurosecretory cells This book focuses on the development of sensory and neurosecretory cell types from cranial placodes by introducing the vertebrate head with its sense organs and neurosecretory organs and providing an overview of the various cranial placodes and their derivatives including evidence of common embryonic primordia Schlosser discusses how these primordia are established in the early embryo and how individual placodes develop The latter chapters explain how various placodally derived sensory and neurosecretory cell types differentiate into discrete structures **Sensing Sound** Bernd Fritzsch,2023-12-01 Hearing is a prerequisite for the evolution of language and thus the development of human societies It is the only major sense whose evolution can be traced back to vertebrates starting with sarcopterygians The book explores the evolution of auditory development that has remained largely unexplored in contemporary theories of neurosensory brain evolution including the telencephalon It describes how sensory epithelia from the basilar papilla evolved in the ear and connected dedicated cochlear neurons to neuronal centers in the brain and deals with how sound is converted through sound modulations into reliably decoded messages The loss of hearing with age is

expected to reach 2 6 billion people by 2050 As such the book explains and reviews hearing loss at the molecular level to the behavioral level and provides suggestions to manage the loss **The Routledge Handbook of Mechanisms and Mechanical Philosophy** Stuart Glennan,Phyllis Illari,2017-07-06 Scientists studying the burning of stars the evolution of species DNA the brain the economy and social change all frequently describe their work as searching for mechanisms Despite this fact for much of the twentieth century philosophical discussions of the nature of mechanisms remained outside philosophy of science The Routledge Handbook of Mechanisms and Mechanical Philosophy is an outstanding reference source to the key topics problems and debates in this exciting subject and is the first collection of its kind Comprising over thirty chapters by a team of international contributors the Handbook is divided into four Parts Historical perspectives on mechanisms The nature of mechanisms Mechanisms and the philosophy of science Disciplinary perspectives on mechanisms Within these Parts central topics and problems are examined including the rise of mechanical philosophy in the seventeenth century what mechanisms are made of and how they are organized mechanisms and laws and regularities how mechanisms are discovered and explained dynamical systems theory and disciplinary perspectives from physics chemistry biology biomedicine ecology neuroscience and the social sciences Essential reading for students and researchers in philosophy of science the Handbook will also be of interest to those in related fields such as metaphysics philosophy of psychology and history of science Contingency and Convergence Russell Powell,2020-02-25 Can we can use the patterns and processes of convergent evolution to make inferences about universal laws of life on Earth and elsewhere In this book Russell Powell investigates whether we can use the patterns and processes of convergent evolution to make inferences about universal laws of life on Earth and elsewhere Weaving together disparate philosophical and empirical threads Powell offers the first detailed analysis of the interplay between contingency and convergence in macroevolution as it relates to both complex life in general and cognitively complex life in particular If the evolution of mind is not a historical accident the product of convergence rather than contingency then Powell asks is mind likely to be an evolutionarily important feature of any living world Stephen Jay Gould argued for the primacy of contingency in evolution Gould s radical contingency thesis RCT has been challenged but critics have largely failed to engage with its core claims and theoretical commitments Powell fills this gap He first examines convergent regularities at both temporal and phylogenetic depths finding evidence that both vindicates and rebuffs Gould s argument for contingency Powell follows this partial defense of the RCT with a substantive critique Among the evolutionary outcomes that might defy the RCT he argues cognition is particularly important not only for human specific issues of the evolution of intelligence and consciousness but also for the large scale ecological organization of macroscopic living worlds Turning his attention to complex cognitive life Powell considers what patterns of cognitive convergence tell us about the nature of mind its evolution and its place in the universe If complex bodies are common in the universe might complex minds be common as well

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