

THE ORIGINS OF GENOME ARCHITECTURE



Michael Lynch

The Origins Of Genome Architecture

Bruce Walsh, Michael Lynch



The Origins Of Genome Architecture:

The Origins of Genome Architecture Michael Lynch, 2007-06 The availability of genomic blueprints for hundreds of species has led to a transformation in biology encouraging the proliferation of adaptive arguments for the evolution of genomic features This text explains why the details matter and presents a framework for how the architectural diversity of eukaryotic genomes and genes came to arise

The Origins of the New Douglas H. Erwin, 2026-02-17 A visionary look at how novel attributes arise and become transformative innovations in nature culture and technology The Origins of the New presents a revolutionary approach to evolutionary success in all realms of life In this groundbreaking book Douglas Erwin takes readers on a dazzling excursion across science and history to explore how evolution generates new and enduring features in biology culture and technology Erwin begins by tracing how thinkers from Darwin's time to the present day have sought to discover the driving mechanisms of evolutionary novelty He then lays out compelling empirical evidence for separating novelty from innovation showing how novelty involves the emergence of unique characteristics while innovation has to do with the success of those characteristics across time Erwin develops a unifying conceptual framework for these powerful dynamics demonstrating how they have shaped everything from the evolution of avian feathers and flight to the creation of human language and the breathtaking advances in digital computing we're witnessing today A landmark work that redefines our understanding of the changes happening all around us The Origins of the New reveals how the forces of novelty and innovation are the same across nature and culture continually producing new forms and refashioning the world as we know it Published in association with the Smithsonian National Museum of Natural History Washington DC

Evolutionary Biology - Concepts, Molecular and Morphological Evolution Pierre Pontarotti, 2010-08-24 The annual Evolutionary Biology Meetings in Marseille aim to bring together leading scientists promoting an exchange of state of the art knowledge and the formation of inter group collaborations This book presents the most representative contributions to the 13th meeting which was held in September 2009 It comprises 21 chapters which are organized into the following three categories Evolutionary Biology Concepts Genome Molecular Evolution Morphological Evolution Speciation This book offers an up to date overview of evolutionary biology concepts and their use in the biology of the 21st century

Phylogenomics Christoph Bleidorn, 2017-06-01 This unique textbook provides a clear and concise overview of the key principles of the complex field of phylogenomics with a particular focus on sequencing technologies that are crucial to studying and understanding interrelations in evolutionary genomics It includes chapters dedicated to the analysis of nucleotide sequences using assembling and alignment methods and also discusses the main strategies for phylogenetic studies systematic errors and their correction This highly readable textbook is intended for graduate students and young researchers with an interest in phylogenetics and evolutionary developmental biology

Animal Evolution Maximilian J. Telford, D. Timothy J. Littlewood, 2009-08-13 Describing and understanding the evolution of the diversity of bodyplans is a major goal of

evolutionary biology Taking a modern integrated approach to this question a group of leading researchers describe how modern techniques and disciplines have been combined resulting in a dramatic renaissance in the study of animal evolution

Evolution and Selection of Quantitative Traits Bruce Walsh, Michael Lynch, 2018-06-21 Quantitative traits be they morphological or physiological characters aspects of behavior or genome level features such as the amount of RNA or protein expression for a specific gene usually show considerable variation within and among populations Quantitative genetics also referred to as the genetics of complex traits is the study of such characters and is based on mathematical models of evolution in which many genes influence the trait and in which non genetic factors may also be important Evolution and Selection of Quantitative Traits presents a holistic treatment of the subject showing the interplay between theory and data with extensive discussions on statistical issues relating to the estimation of the biologically relevant parameters for these models

Quantitative genetics is viewed as the bridge between complex mathematical models of trait evolution and real world data and the authors have clearly framed their treatment as such This is the second volume in a planned trilogy that summarizes the modern field of quantitative genetics informed by empirical observations from wide ranging fields agriculture evolution ecology and human biology as well as population genetics statistical theory mathematical modeling genetics and genomics

Whilst volume 1 1998 dealt with the genetics of such traits the main focus of volume 2 is on their evolution with a special emphasis on detecting selection ranging from the use of genomic and historical data through to ecological field data and examining its consequences

Secondary Endosymbioses Yoshihisa Hirakawa, 2017-10-27 Secondary Endosymbioses Volume 84 the latest release in the Advances in Botanical Research series summarizes eight major groups possessing complex plastids including heterokonts dinoflagellates apicomplexans chromerids haptophytes cryptophytes euglenophytes and chlorarachniophytes Updates to this new volume include sections on the Evolution of secondary plastid bearing organisms Primary plastids of Archeplastida Secondary plastids of heterokonts diatoms Secondary and tertiary plastids of dinoflagellates Apicoplasts Secondary plastids of chromerids Secondary Plastids of haptophytes Secondary Plastids of cryptophytes Secondary Plastids of euglenids and Secondary Plastids of chlorarachniophytes Through an examination on how plastids evolved by multiple endosymbiotic events this book discusses how diverse and abundant organisms harbor complex plastids Presents the latest release in the Advances in Botanical Research series Ideal resource for post graduates and researchers in the plant sciences including botany plant biochemistry plant pathology and plant physiology Contains contributions from internationally recognized authorities in their respective fields

The brassicaceae — agri-horticultural and environmental perspectives, volume II Naser A. Anjum, Om Parkash Dhankher, Narendra Tuteja, Sarvajeet Singh Gill, Juan F. Jimenez, 2023-02-28

Introduction to Conservation Genetics Richard Frankham, Jonathan D. Ballou, David Anthony Briscoe, 2010 This impressive author team brings the wealth of advances in conservation genetics into the new edition of this introductory text including new chapters on population genomics and

genetic issues in introduced and invasive species They continue the strong learning features for students main points in the margin chapter summaries vital support with the mathematics and further reading and now guide the reader to software and databases Many new references reflect the expansion of this field With examples from mammals birds reptiles fish amphibians plants and invertebrates this is an ideal introduction to conservation genetics for a broad audience The text tackles the quantitative aspects of conservation genetics and has a host of pedagogy to support students learning the numerical side of the subject Combined with being up to date its user friendly writing style and first class illustration programme forms a robust teaching package

Discrete and Topological Models in Molecular Biology Nataša Jonoska,Masahico Saito,2013-12-23 Theoretical tools and insights from discrete mathematics theoretical computer science and topology now play essential roles in our understanding of vital biomolecular processes The related methods are now employed in various fields of mathematical biology as instruments to zoom in on processes at a molecular level This book contains expository chapters on how contemporary models from discrete mathematics in domains such as algebra combinatorics and graph and knot theories can provide perspective on biomolecular problems ranging from data analysis molecular and gene arrangements and structures and knotted DNA embeddings via spatial graph models to the dynamics and kinetics of molecular interactions The contributing authors are among the leading scientists in this field and the book is a reference for researchers in mathematics and theoretical computer science who are engaged with modeling molecular and biological phenomena using discrete methods It may also serve as a guide and supplement for graduate courses in mathematical biology or bioinformatics introducing nontraditional aspects of mathematical biology

Genetics of Populations , Genetics of Populations Philip Hedrick,2011-08-24 Preface Chapter 1 General Background and the Diversity of Genetic Variation Chapter 2 Measures of Genetic Variation Chapter 3 Selection Chapter 4 Genetic Drift and Effective Population Size Chapter 5 Mutation Chapter 6 Neutral Theory and Coalescence Chapter 7 Gene Flow and Population Structure Chapter 8 Inbreeding and Related Topics Chapter 9 Molecular Population Genetics and Evolution Bibliography Answers to Numerical Problems Index

A History of Biology Michel Morange,2023-08-15 This book presents a complete global history of the biological sciences from ancient times to today introducing a long term perspective to the history of biological thought while showing its fractures and upheavals through the ages The history of biology often neglects certain areas such as ecology ethology the study of non human animal behavior and plant biology areas which are covered in this work The broad global perspective offered here will allow the reader to better appreciate the nature of the interdisciplinary exchanges that have shaped the biological sciences perhaps more than any other discipline Much attention is also given to the contribution of technology the role of experimentation and more generally the social and technological environment within which scientific transformations develop

Genetics Daniel L. Hartl,Elizabeth W. Jones,2009 This handbook covers all dimensions of breast cancer prevention diagnosis and treatment for the non oncologist A special emphasis is placed on the

long term survivor *Evolution of Fungi and Fungal-Like Organisms* Stefanie Pöggeler, Timothy James, 2023-09-12 Sequence analyses of numerous fungal genomes over the past two decades have provided us with extensive insights into the phylogenetic relationships of fungi and the distribution of genes and their inferred functions across the fungal kingdom It is now possible to answer questions about the origin of the fungal kingdom and fungal evolution with an analytical precision that was not possible before This fully revised and updated 2nd edition of *The Mycota Vol 14* addresses major aspects of fungal evolution The book is divided into four sections covering the following main topics Evolutionary roots of fungi Evolution of pathogenic strategies Evolution of mutualistic interactions Evolution of metabolism and development in fungi Fungi are among the oldest eukaryotic groups in the living world The aim of this book is to better understand the history and importance of fungi as well as the characteristics that distinguish them from their sister group the metazoans and other fungus like groups such as the slime molds and oomycetes Many fungal species are important pathogens of animals and plants and have distinct but parallel pathogenicity strategies Mutualistic interactions of fungi with other organisms are crucial for their survival in different ecological niches and have a great influence on their evolution and the design of their genomes Metabolism is one of the most important features of life and the diversity of metabolic processes is best understood by considering evolution Studies of fungal metabolism have traditionally focused on metabolites of particular interest namely mycotoxins pathogenicity factors antibiotics and other compounds with interspecific activity This volume will be of great interest to mycologists evolutionary biologists and fungal geneticists as well as to lecturers and students of microbiology and mycology *Evolution, Explanation, Ethics and Aesthetics* Francisco J. Ayala, 2016-07-21 *Evolution Explanation Ethics and Aesthetics Towards a Philosophy of Biology* focuses on the dominant biological topic of evolution It deals with the prevailing philosophical themes of how to explain the adaptation of organisms the interplay of chance and necessity and the recurrent topics of emergence reductionism and progress In addition the extensively treated topic of how to explain human nature as a result of natural processes and the encompassed issues of the foundations of morality and the brain to mind transformation is discussed The philosophy of biology is a rapidly expanding field not more than half a century old at most and to a large extent is replacing the interest in the philosophy of physics that prevailed in the first two thirds of the twentieth century Few texts available have the benefit of being written by an eminent biologist who happens to be also a philosopher as in this work This book is a useful resource for seminar courses and college courses on the philosophy of biology Researchers academics and students in evolutionary biology behavior genetics and biodiversity will also be interested in this work as will those in human biology and issues such as ethics religion and the human mind along with professional philosophers of science and those concerned with such issues as whether evolution is compatible with religion and or where morality comes from Presents the unique perspective of a distinguished biologist with extensive experience in the field who has published much about the subject in a wide variety of journals and edited volumes Covers the philosophical issues related to evolution and biology in an

approachable and readable style Includes the most up to date treatment of this burgeoning exciting field within biology Provides the ideal guide for researchers academics and students in evolutionary biology behavior genetics and biodiversity

Next-Generation Genome Sequencing Michal Janitz,2011-08-24 Written by leading experts from industry and academia this first single comprehensive resource addresses recent developments in next generation DNA sequencing technology and their impact on genome research drug discovery and health care As such it presents a detailed comparative analysis of commercially available platforms as well as insights into alternative emerging sequencing techniques In addition the book not only covers the principles of DNA sequencing techniques but also social ethical and commercial aspects the concept of personalized medicine and a five year perspective of DNA sequencing

The Major Transitions in Evolution Revisited Brett Calcott,Kim Sterelny,2011-04-22 Drawing on recent advances in evolutionary biology prominent scholars return to the question posed in a pathbreaking book how evolution itself evolved In 1995 John Maynard Smith and E rs Szathm ry published their influential book The Major Transitions in Evolution The transitions that Maynard Smith and Szathm ry chose to describe all constituted major changes in the kinds of organisms that existed but most important these events also transformed the evolutionary process itself The evolution of new levels of biological organization such as chromosomes cells multicelled organisms and complex social groups radically changed the kinds of individuals natural selection could act upon Many of these events also produced revolutionary changes in the process of inheritance by expanding the range and fidelity of transmission establishing new inheritance channels and developing more open ended sources of variation Maynard Smith and Szathm ry had planned a major revision of their work but the death of Maynard Smith in 2004 prevented this In this volume prominent scholars including Szathm ry himself reconsider and extend the earlier book s themes in light of recent developments in evolutionary biology The contributors discuss different frameworks for understanding macroevolution prokaryote evolution the study of which has been aided by developments in molecular biology and the complex evolution of multicellularity

Organelle Genetics Charles E. Bullerwell,2011-10-26 Mitochondria and chloroplasts are eukaryotic organelles that evolved from bacterial ancestors and harbor their own genomes The gene products of these genomes work in concert with those of the nuclear genome to ensure proper organelle metabolism and biogenesis This book explores the forces that have shaped the evolution of organelle genomes and the expression of the genes encoded by them Some striking examples of trends in organelle evolution explored here are the reduction in genome size and gene coding content observed in most lineages the complete loss of organelle DNA in certain lineages and the unusual modes of gene expression that have emerged such as the extensive and essential mRNA editing that occurs in plant mitochondria and chloroplasts This book places particular emphasis on the current techniques used to study the evolution of organelle genomes and gene expression

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 plasm 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

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