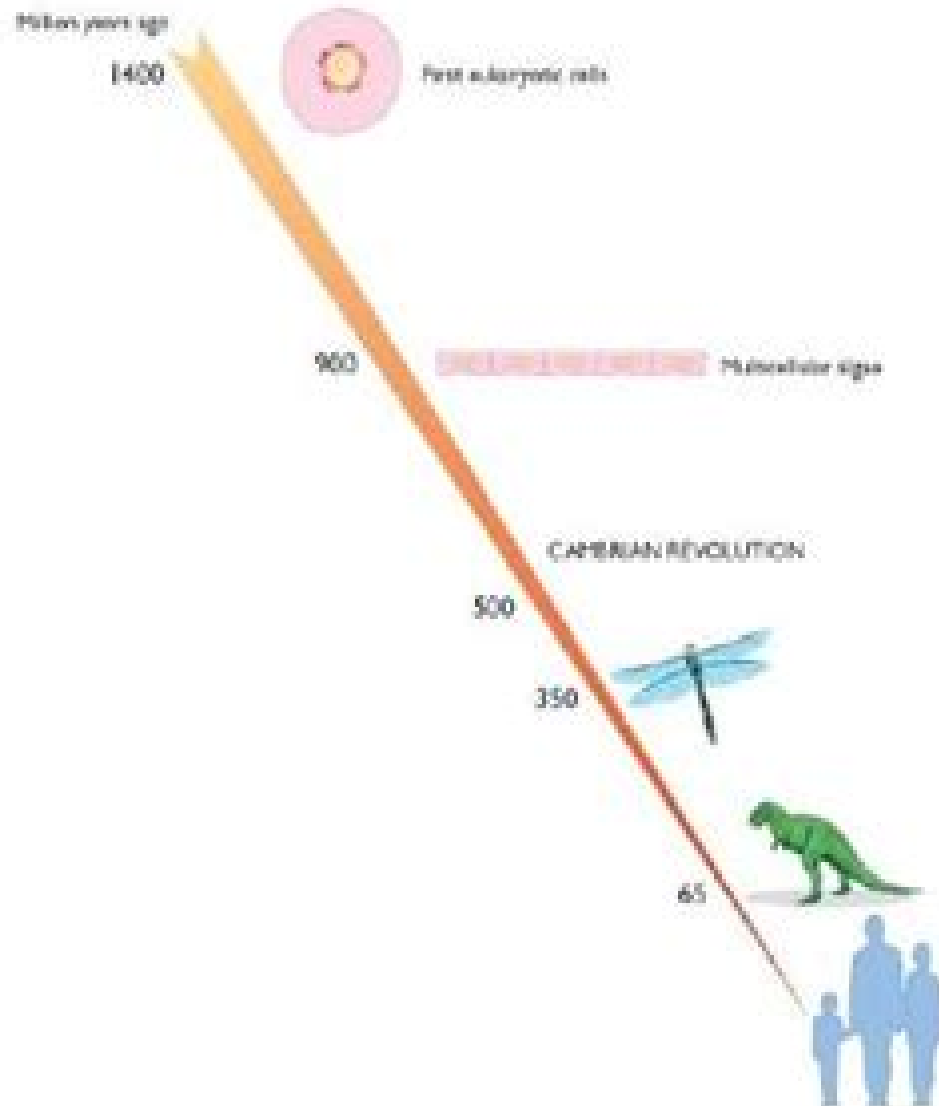


Genome Evolution



Genome Evolution

J. F. McDonald



Genome Evolution:

Genome Evolution Axel Meyer, Yves van de Peer, 2011-06-28 In the years since the publication of Susumu Ohno's 1970 landmark book *Evolution by gene duplication* tremendous advances have been made in molecular biology and especially in genomics. Studies of genome structure and function prerequisite to testing hypotheses of genome evolution were all but impossible until recent methodological advances. This book evaluates newly generated empirical evidence as it pertains to theories of genomic evolutionary patterns and processes. Tests of hypotheses using analyses of complete genomes interpreted in a phylogenetic context provide evidence regarding the relative importance of gene duplication. The alternative explanation is that the evolution of regulatory elements that control the expression of and interactions among genes has been a more important force in shaping evolutionary innovation. This collection of papers will be of interest to all academic and industry researchers working in the fields of molecular biology, biotechnology, genomics and genome centers. **Transposable**

Elements and Genome Evolution J. F. McDonald, 2012-12-06 Once considered merely selfish or parasitic DNA, transposable elements are today recognized as being of major biological significance. Not only are these elements a major source of mutation, they have contributed both directly and indirectly to the evolution of genome structure and function. On October 8-10, 1999, 100 molecular biologists and evolutionists representing 11 countries met on the campus of The University of Georgia in Athens for the inaugural Georgia Genetics Symposium. The topics of presentations ranged from how the elements themselves have evolved to the impact transposable elements have had on the evolution of their host genomes. The papers in this volume therefore represent state of the art thinking by leading world experts in the field on the evolutionary significance of transposable elements. **Polyploidy and Genome Evolution** Pamela S. Soltis, Douglas E. Soltis, 2012-10-03

Polyploidy whole genome duplication (WGD) is a fundamental driver of biodiversity with significant consequences for genome structure, organization and evolution. Once considered a speciation process common only in plants, polyploidy is now recognized to have played a major role in the structure, gene content and evolution of most eukaryotic genomes. In fact, the diversity of eukaryotes seems closely tied to multiple WGDs. Polyploidy generates new genomic interactions, initially resulting in genomic and transcriptomic shock that must be resolved in a new polyploid lineage. This process essentially acts as a reset button, resulting in genomic changes that may ultimately promote adaptive speciation. This book brings together for the first time the conceptual and theoretical underpinnings of polyploid genome evolution with syntheses of the patterns and processes of genome evolution in diverse polyploid groups. Because polyploidy is most common and best studied in plants, the book emphasizes plant models, but recent studies of vertebrates and fungi are providing fresh perspectives on factors that allow polyploid speciation and shape polyploid genomes. The emerging paradigm is that polyploidy, through alterations in genome structure and gene regulation, generates genetic and phenotypic novelty that manifests itself at the chromosomal, physiological and organismal levels with long term ecological and evolutionary consequences. *Evolutionary Biology:*

Genome Evolution, Speciation, Coevolution and Origin of Life Pierre Pontarotti, 2014-07-25 This book includes the most essential contributions presented at the 17th Evolutionary Biology Meeting in Marseille which took place in September 2013. It consists of 18 chapters organized according to the following categories: Molecular and Genome Evolution, Phylogeography of Speciation and Coevolution, Exobiology and Origin of Life. The aims of the annual meetings in Marseille which bring together leading evolutionary biologists and other scientists using evolutionary biology concepts e.g. for medical research are to promote the exchange of ideas and to encourage interdisciplinary collaborations. Offering an overview of the latest findings in the field of evolutionary biology, this book represents an invaluable source of information for scientists, teachers and advanced students.

Evolutionary Biology - Concepts, Biodiversity, Macroevolution and Genome Evolution Pierre Pontarotti, 2011-07-20 The annual Evolutionary Biology Meetings in Marseilles serve to gather leading scientists, promote the exchange of ideas and encourage the formation of international collaborations. This book contains the most essential contributions presented at the 14th Evolutionary Biology Meeting which took place in September 2010. It comprises 19 chapters organized according to the following categories: Evolutionary Biology Concepts, Biodiversity and Evolution, Macroevolution, Genome Evolution. Offering an up to date overview of recent results in the field of evolutionary biology, this book is an invaluable source of information for scientists, teachers and advanced students.

Evolution of the Human Genome II Naruya Saitou, 2021-05-27 This two volume set provides a general overview of the evolution of the human genome. The first volume overviews the human genome with descriptions of important gene groups. This second volume provides up to date concise yet ample knowledge on the genome evolution of modern humans. It comprises twelve chapters divided into two parts: discussing Non neutral Evolution on Human Genes (Part I) and Evolution of Modern Human Populations (Part II). The most significant feature of this book is the continent wise discussion of modern human dispersal using human genomic data. In Part II, recent results such as introgression of paleogenomes to modern humans, new methods such as computer simulation of global human dispersals and new information on genes for humanness will be of particular interest to the readers. Since the euchromatin regions of the human genome were sequenced in 2003, a huge number of research papers were published on modern human evolution for a variety of populations. It is now time to summarize these achievements. This book stands out as the most comprehensive book on the modern human evolution focusing on genomic points of view with a broad scope. Primary target audiences are researchers and graduate students in evolutionary biology.

The Evolution of the Genome T. Ryan Gregory, 2011-05-04 The Evolution of the Genome provides a much needed overview of genomic study through clear, detailed, expert authored discussions of the key areas in genome biology. This includes the evolution of genome size, genomic parasites, gene and ancient genome duplications, polypoidy, comparative genomics and the implications of these genome level phenomena for evolutionary theory. In addition to reviewing the current state of knowledge of these fields in an accessible way, the various chapters also provide historical and conceptual background information, highlight the ways in

which the critical questions are actually being studied indicate some important areas for future research and build bridges across traditional professional and taxonomic boundaries The Evolution of the Genome will serve as a critical resource for graduate students postdoctoral fellows and established scientists alike who are interested in the issue of genome evolution in the broadest sense Provides detailed clearly written chapters authored by leading researchers in their respective fields Presents a much needed overview of the historical and theoretical context of the various areas of genomic study Creates important links between topics in order to promote integration across subdisciplines including descriptions of how each subject is actually studied Provides information specifically designed to be accessible to established researchers postdoctoral fellows and graduate students alike

Evolution of the Human Genome I Naruya Saitou, 2018-02-08 This book reviews the human genome from an evolutionary perspective No such book has ever been published before although there are many books on human genomes There are two parts in this book Overview of the Human Genome Part I and The Human Genome Viewed through Genes Part II In Part I after a brief review of human evolution and the human genome by Naruya Saitou chapters on rubbish or junk DNA by Dan Graur GC content heterogeneity by Satoshi Oota protein coding and RNA coding genes by Tadashi Imanishi duplicated genes by Takashi Kitano recombinations by Montanucci and Bertranpetit and copy number variations including microsatellites by Naoko Takezaki are discussed Readers can obtain various new insights on the human genome from this part In Part II genes in X and Y chromosomes by Yoko Satta and others HLA genes by Timothy A Jinam opsin genes by Shoji Kawamura and Amanda D Melin genes related to phenotypic variations by Ryosuke Kimura transcription factors by Mahoko Takahashi and So Nakagawa diabetes related genes by Ituro Inoue disease genes in general by Ituro Inoue and Hirofumi Nakaoka and microbial genomes by Chaochun Wei are discussed The human genome sequences were determined in 2004 and after more than 10 years we are now beginning to understand the human genome from an evolutionary point of view This book furnishes readers with a good summary of current research in the field

Transposable Elements and Genome Evolution Aurélie Hua-Van, Pierre Capy, 2024-08-15 Since their discovery by Barbara McClintock in the mid 20th century the importance of transposable elements in shaping the architecture function and evolution of genomes has gradually been unveiled These DNA sequences populate nearly all genomes and are viewed as genomic parasites They are mobile capable of proliferating within genomes and also commonly travel between species These elements are mutagenic and are responsible for several human genetic disorders but they also constitute a major source of genetic diversity Some insertions have beneficial effects for the host and are selected for giving rise to significant evolutionary innovations Their dynamics within genomes are intricate as are their interactions with other genome components To limit their proliferation the genome has evolved sophisticated defense mechanisms While researchers commonly use these elements as genetic tools their identification in newly sequenced genomes remains a challenge due not only to their extensive diversity but also their large copy numbers

Genomes, Evolution, and Culture Rene J. Herrera, Ralph Garcia-Bertrand, Francisco M.

Salzano,2016-05-02 This book combines recent information and discoveries in the field of human molecular biology and human molecular evolution It provides an interdisciplinary approach drawing together data from various diverse disciplines to address both the more classical anthropological content and the current more contemporary molecular focus of courses Chapters include a history of human evolutionary genetics the human genome structure and function population structure and variability gene and genomic dynamics culture health and disease bioethics future Models and Algorithms for Genome Evolution Cedric Chauve,Nadia El-Mabrouk,Eric Tannier,2013-09-17 This authoritative text reference presents a review of the history current status and potential future directions of computational biology in molecular evolution Gathering together the unique insights of an international selection of prestigious researchers this must read volume examines the latest developments in the field the challenges that remain and the new avenues emerging from the growing influx of sequence data These viewpoints build upon the pioneering work of David Sankoff one of the founding fathers of computational biology and mark the 50th anniversary of his first scientific article The broad spectrum of rich contributions in this essential collection will appeal to all computer scientists mathematicians and biologists involved in comparative genomics phylogenetics and related areas **Genome Evolution** Gabriel A. Dover,Richard B. Flavell,1982 *Structural and Evolutionary Genomics* Giorgio Bernardi,2005-12-19 Structural genomics is the study of the DNA of living organisms Evolutionary genomics is the study of the history of the genome These subjects are closely interlinked They are approached in this book using as a guideline the investigations carried out in the author s laboratory relevant literature is critically reviewed and some general conclusions are presented The author and his collaborators have studied a vast number of genomes ranging from prokaryotes to human using different approaches including physical chemistry of DNA viral integration and molecular cytogenetics As the subtitle indicates the book discusses the fundamental importance of natural selection in shaping genomes In terms of numbers neutral and nearly neutral mutations represent most mutations but a regional control is exerted by natural selection essentially negative or purifying selection A neo selectionist model is proposed for genome evolution Summarizes the existing knowledge on genome organization and evolution in a self containedbook Discusses important open problem without refraining from criticism wheneverappropriate Genome Stability Igor Kovalchuk,Olga Kovalchuk,2021-07-17 Genome Stability From Virus to Human Application Second Edition a volume in the Translational Epigenetics series explores how various species maintain genome stability and genome diversification in response to environmental factors Here across thirty eight chapters leading researchers provide a deep analysis of genome stability in DNA RNA viruses prokaryotes single cell eukaryotes lower multicellular eukaryotes and mammals examining how epigenetic factors contribute to genome stability and how these species pass memories of encounters to progeny Topics also include major DNA repair mechanisms the role of chromatin in genome stability human diseases associated with genome instability and genome stability in response to aging This second edition has been fully

revised to address evolving research trends including CRISPRs Cas9 genome editing conventional versus transgenic genome instability breeding and genetic diseases associated with abnormal DNA repair RNA and extrachromosomal DNA cloning stem cells and embryo development programmed genome instability and conserved and divergent features of repair This volume is an essential resource for geneticists epigeneticists and molecular biologists who are looking to gain a deeper understanding of this rapidly expanding field and can also be of great use to advanced students who are looking to gain additional expertise in genome stability A deep analysis of genome stability research from various kingdoms including epigenetics and transgenerational effects Provides comprehensive coverage of mechanisms utilized by different organisms to maintain genomic stability Contains applications of genome instability research and outcomes for human disease Features all new chapters on evolving areas of genome stability research including CRISPRs Cas9 genome editing RNA and extrachromosomal DNA programmed genome instability and conserved and divergent features of repair *Genomes, Evolution, and Culture* Rene J. Herrera, Ralph Garcia-Bertrand, Francisco M. Salzano, 2016-03-01 This book combines recent information and discoveries in the field of human molecular biology and human molecular evolution It provides an interdisciplinary approach drawing together data from various diverse disciplines to address both the more classical anthropological content and the current more contemporary molecular focus of courses Chapters include a history of human evolutionary genetics the human genome structure and function population structure and variability gene and genomic dynamics culture health and disease bioethics future Introduction to Evolutionary Genomics Naruya Saitou, 2018-10-25 This authoritative textbook reference presents a comprehensive introduction to the field of evolutionary genomics The opening chapters describe the fundamental concepts in molecular biology and genome evolution for readers without any prior background in this area This is followed by a detailed examination of genome evolution in various different groups of organisms The text then concludes with a review of practical methods essential to researchers in the field This updated and revised new edition also features historical perspectives on contributions to evolutionary genomics from related fields such as molecular evolution genetics and numerical taxonomy Topics and features introduces the basics of molecular biology covering protein structure and diversity as well as DNA replication transcription and translation examines the phylogenetic relationships of DNA sequences and the processes of mutation neutral evolution and natural selection presents a brief evolutionary history of life surveying the key features of the genomes of prokaryotes eukaryotes viruses and phages vertebrates and humans reviews the various biological omic databases and discusses the analysis of homologous nucleotide and amino acid sequences provides an overview of the experimental sequencing of genomes and transcriptomes and the construction of phylogenetic trees describes methods for estimating of evolutionary distances and performing studies of population genetics supplies additional supporting material at an associated website Serving as an indispensable textbook for graduate and advanced undergraduate courses on evolutionary genomics this accessible overview will also prove invaluable

to researchers from both computer science and the biological sciences seeking a primer on the field The Dynamic Genome Antonio Fontdevila, 2011-06-02 Our ever increasing knowledge of whole genome sequences is unveiling a variety of structures and mechanisms that impinge on current evolutionary theory The origin of species the evolution of form and the evolutionary impact of transposable elements are just a few of the many processes that have been revolutionised by ongoing genome studies These novelties among others are examined in this book in relation to their general significance for evolution emphasising their human relevance The predominance of non coding DNA in the human genome the long term adaptive role of so called junk DNA in the evolution of new functions and the key evolutionary differences that define our humanity are just some of the controversial issues that this book examines in the context of Darwinian evolution The author's principle intention is to show that whilst genomics is revealing new and previously unanticipated mechanisms and sources of variability that must be incorporated into evolutionary theory there is no reason to dismiss the role of natural selection as the mechanism that sorts out these potentialities In other words this genome potential provides new possibilities and also constraints for evolution but the realization of this potential is driven by natural selection **Genomes 3** Terence A. Brown, 2007 The VitalBook e book version of Genomes 3 is only available in the US and Canada at the present time To purchase or rent please visit <http://store.vitalsource.com/show/9780815341383> Covering molecular genetics from the basics through to genome expression and molecular phylogenetics Genomes 3 is the latest edition of this pioneering textbook Updated to incorporate the recent major advances Genomes 3 is an invaluable companion for any undergraduate throughout their studies in molecular genetics Genomes 3 builds on the achievements of the previous two editions by putting genomes rather than genes at the centre of molecular genetics teaching Recognizing that molecular biology research was being driven more by genome sequencing and functional analysis than by research into genes this approach has gathered momentum in recent years **The Spruce Genome** Ilga M. Porth, Amanda R. De la Torre, 2020-08-01 This book offers comprehensive information on the genomics of spruces *Picea* spp naturally abundant conifer tree species that are widely distributed in the Northern Hemisphere Due to their tremendous ecological and economic importance the management of forest genetic resources has chiefly focused on conservation and tree improvement A draft genome sequence of the 20 gigabase Norway spruce genome was published in the journal Nature in 2013 Continuous efforts to improve the spruce genome assembly are underway but are hindered by the inherent characteristics of conifer genomes high amounts of repetitive sequences introns and transposable elements in the genome and large gene family expansions with regards to abiotic stress secondary metabolism and spruces defense responses to pathogens and herbivory This book presents the latest information on the status of genome assemblies provides detailed insights into transposable elements and methylation patterns and highlights the extensive genomic resources available for inferring population genomics and climate adaptation as well as emerging genomics tools for tree improvement programs In addition this volume features whole genome comparisons among conifer

species and demonstrates how functional genomics can be used to improve gene function annotations The book closes with an outlook on emerging fields of research in spruce genomics Plant Genomes J. -N. Volff, M. Schmid, 2008-04-14 Recent major advances in the field of comparative genomics and cytogenomics of plants particularly associated with the completion of ambitious genome projects have uncovered astonishing facets of the architecture and evolutionary history of plant genomes The aim of this book was to review these recent developments as well as their implications in our understanding of the mechanisms which drive plant diversity New insights into the evolution of gene functions gene families and genome size are presented with particular emphasis on the evolutionary impact of polyploidization and transposable elements Knowledge on the structure and evolution of plant sex chromosomes centromeres and microRNAs is reviewed and updated Taken together the contributions by internationally recognized experts present a panoramic overview of the structural features and evolutionary dynamics of plant genomes This volume of Genome Dynamics will provide researchers teachers and students in the fields of biology and agronomy with a valuable source of current knowledge on plant genomes

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Genome Evolution Introduction

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