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Polyploidy And Genome Evolution

John P. Vogel



Polyploidy And Genome Evolution:

Polyploidy and Genome Evolution Pamela 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

Plant Molecular Evolution J.J. Doyle, Brandon S. Gaut, 2012-12-06 Plant molecular biology has produced an ever increasing flood of data about genes and genomes Evolutionary biology and systematics provides the context for synthesizing this information This book brings together contributions from evolutionary biologists systematists developmental geneticists biochemists and others working on diverse aspects of plant biology whose work touches to varying degrees on plant molecular evolution The book is organized in three parts the first of which introduces broad topics in evolutionary biology and summarizes advances in plant molecular phylogenetics with emphasis on model plant systems The second segment presents a series of case studies of gene family evolution while the third gives overviews of the evolution of important plant processes such as disease resistance nodulation hybridization transposable elements and genome evolution and polyploidy

Genetics and Genomics of Cotton Andrew H. Paterson, 2009-03-11 A few members of the *Gossypium* cotton genus are

cultivated for the production of elongated single celled fibers valued worldwide at about 20 billion annually at the farm gate and which sustain one of the world's largest industries textiles with an annual worldwide economic impact of about 500 billion In a number of ways cotton production and the textile industry are closely tied to petrochemical usage At a practical level cotton genomics offers both bio based carbon sequestration alternatives to petrochemical use and improved sustainability of crop production The *Gossypium* cotton also genus presents novel opportunities to advance our understanding of the natural world and its organic evolution In particular the evolution of cultivated cottons from their wild ancestors has involved a fascinating series of events that offer scientists the opportunity to dissect the evolution of a novel organ the lint fiber and also to unravel the consequences of polyploidy both for the generation of biodiversity and for crop productivity In this book advances of the past decade will be summarized and synthesized to elucidate the current state of knowledge of the structure function and evolution of the *Gossypium* genome and progress in the application of this knowledge to cotton improvement This book will address five broad topics First as a backdrop for all studies of the genus it is important to understand the naturally occurring diversity in the genus its organization and distribution and its evolutionary history Of special importance is the formation of a single polyploid from two among 8 diploid genome types the radiation of this polyploid and the domestication and improvement of two among 5 extant polyploid species Artificial Polyploidy in Plants Jen-Tsung Chen,Jeremy Coate,Geoffrey Meru,2021-01-21 **Plant Genome Diversity Volume 2** Johann Greilhuber,Jaroslav Dolezel,Jonathan Wendel,2012-11-13 This second of two volumes on Plant Genome Diversity provides in 20 chapters insights into the structural evolution of plant genomes with all its variations Starting with an outline of plant phylogeny and its reconstruction the second part of the volume describes the architecture and dynamics of the plant cell nucleus the third examines the evolution and diversity of the karyotype in various lineages including angiosperms gymnosperms and monilophytes The fourth part presents the mechanisms of polyploidization and its biological consequences and significance for land plant evolution The fifth part deals with genome size evolution and its biological significance Together with Volume I this comprehensive book on the plant genome is intended for students and professionals in all fields of plant science offering as it does a convenient entry into a burgeoning literature in a fast moving field Biology Ebook Raven,2016-05-16 Biology Ebook EBOOK: Biology Peter Raven,George Johnson,Kenneth Mason,Jonathan Losos,Susan Singer,2013-02-16 Committed to Excellence in the Landmark Tenth Edition This edition continues the evolution of Raven Johnson's Biology The author team is committed to continually improving the text keeping the student and learning foremost We have integrated new pedagogical features to expand the students learning process and enhance their experience in the ebook This latest edition of the text maintains the clear accessible and engaging writing style of past editions with the solid framework of pedagogy that highlights an emphasis on evolution and scientific inquiry that have made this a leading textbook for students majoring in biology and have been enhanced in this landmark Tenth edition This emphasis on the organizing

power of evolution is combined with an integration of the importance of cellular molecular biology and genomics to offer our readers a text that is student friendly and current Our author team is committed to producing the best possible text for both student and faculty The lead author Kenneth Mason University of Iowa has taught majors biology at three different major public universities for more than fifteen years Jonathan Losos Harvard University is at the cutting edge of evolutionary biology research and Susan Singer Carleton College has been involved in science education policy issues on a national level All three authors bring varied instructional and content expertise to the tenth edition of *Biology*

Plant Transposable Elements Marie-Angèle Grandbastien, Josep Casacuberta, 2013-01-08 Transposable elements are short lengths of DNA with the capacity to move between different points within a genome This process can affect the function of genes at or near the insertion site The present book gives an overview of the impact of transposable elements on plant genomes and explains how to recognize and study transposable elements e g by using state of the art strategies like new generation sequencing Moreover the impact of transposable elements on plant genome structure and function is reviewed in detail and also illustrated in examples and case studies The book is intended both for readers familiar with the field and for newcomers With large scale sequencing becoming increasingly available more and more people will come across transposable element sequences in their data and this volume will hopefully help to convince them that they are not just junk DNA

The Brassica napus Genome Shengyi Liu, Rod Snowdon, Boulos Chalhou, 2018-10-22 This book describes how the genome sequence contributes to our understanding of allopolyploidisation and the genome evolution genetic diversity complex trait regulation and knowledge based breeding of this important crop Numerous examples demonstrate how widespread homoeologous genome rearrangements and exchanges have moulded structural genome diversity following a severe polyploidy bottleneck The allopolyploid crop species *Brassica napus* has the most highly duplicated plant genome to be assembled to date with the largest number of annotated genes Examples are provided for use of the genome sequence to identify and capture diversity for important agronomic traits including seed quality and disease resistance The increased potential for detailed gene discovery using high density genetic mapping quantitative genetics and transcriptomic analyses is described in the context of genome availability and illustrated with recent examples Intimate knowledge of the highly duplicated gene space on the one hand and the repeat landscape on the other particularly in comparison to the two diploid progenitor genomes provide a fundamental basis for new insights into the regulatory mechanisms that are coupled with selection for polyploid success and crop evolution

Polyploidy Yves Van de Peer, 2023-02-01 This volume provides protocols on evidence for polyploidy and how it can be unveiled Chapters guide readers through evolutionary experiments measure effects of polyploidy evidence for remnants of ancient WGDs models of chromosome number evolution population genomics approaches to study polyploidy analysing genetic data from polyploid populations Phylogenetic and phylogenomic methods gene expression gene regulation unicellular alga *Chlamydomonas* and a fast growing duckweed *Spirodela* Written in the format of the highly successful

Methods in Molecular Biology series each chapter includes an introduction to the topic lists necessary materials and reagents includes tips on troubleshooting and known pitfalls and step by step readily reproducible protocols Authoritative and cutting edge Polyploidy Method and Protocols aims to be of interest to experimental and computational evolutionary biologists molecular biologists and biotechnologists

Genetics and Genomics of Brachypodium John P. Vogel, 2016-02-17 Grasses dominate many natural ecosystems and produce the bulk calories consumed by humans either directly in the form of grains or indirectly through forage grain fed animals In addition grasses grown as biomass crops are poised to become a significant source of renewable energy Despite their economic and environmental importance research into the unique aspects of grass biology has been hampered by the lack of a truly tractable experimental model system Over that past decade the small annual grass Brachypodium distachyon has emerged as a viable model system for the grasses This book describes the development of extensive experimental resources e g whole genome sequence efficient transformation methods insertional mutant collections large germplasm collections recombinant inbred lines resequenced genomes that have led many laboratories around the world to adopt B distachyon as a model system The use of B distachyon to address a wide range of biological topics e g disease resistance cell wall composition abiotic stress tolerance root growth and development floral development natural diversity is also discussed

Polyploidy and its consequences Yves Van de Peer, Andrew H Paterson, Jonathan F Wendel, 2023-09-28

Applications of Bioinformatics in Rice Research Manoj Kumar Gupta, Lambodar Behera, 2021-09-24 This book summarizes the advanced computational methods for mapping high density linkages and quantitative trait loci in the rice genome It also discusses the tools for analyzing metabolomics identifying complex polyploidy genomes and decoding the extrachromosomal genome in rice Further the book highlights the application of CRISPR Cas technology and methods for understanding the evolutionary development and the de novo evolution of genes in rice Lastly it discusses the role of artificial intelligence and machine learning in rice research and computational tools to analyze plant pathogen co evolution in rice crops

Chromosomal Evolution in Plants Martin A. Lysak, Hanna Weiss-Schneeweiss, 2021-09-28

Plant Transposable Elements Deepu Pandita, Anu Pandita, 2023-06-30 This new volume provides an up to date understanding of the numerous classes of plant transposable elements the mobile units of DNA that comprise large portions of plant genomes which are an important contributor for gene and genome evolution Transposable elements TEs are major components of large plant genomes and main drivers of genome evolution known to produce a wide variety of changes in plant gene expression and function Providing a systematic interpretation of protocols designed to characterize TEs and their biotechnological roles the volume explores TEs in plant development their architecture their epigenetic regulation their use in DNA repair their evolution and speciation while also highlighting their importance in the approaching epoch of climate change The volume begins with introduction of transposable elements covering their classification and transposition It delves into protocols designed to characterize TEs and their biotechnological applications

The book includes computational approaches for prediction and analysis retro transposon capture sequencing and more The section on transposon biology focuses on its role in plant development and as natural genetic engineers of genome mutation evolution and speciation The book looks further into transposon applications in genome editing exploring tagging and mutagenesis genome engineering and more Function and Evolution of Repeated DNA Sequences Guy-Franck

Richard,2024-01-31 The genome of a living being is composed of DNA sequences with diverse origins Beyond single copy genes whose product has a biological function that can be inferred by experimentation certain DNA sequences present in a large number of copies escape the most refined approaches aimed at elucidating their precise role The existence of what 20th century geneticists had already perceived and wrongly described as junk DNA was confirmed by the sequencing of the first complex genomes including that of Homo sapiens A large part of what defines a living thing is not unique but repeated sometimes a very large number of times increasing in complexity with successive duplications and multiplication

Understanding and defining the many functions of this myriad of repeated sequences as well as their evolution through natural selection has become one of the major challenges for 21st century genomics **Transformations of Lamarckism** Snait B. Gissis,Eva Jablonka,2011-04-22 A reappraisal of Lamarckism its historical impact and contemporary significance In 1809 the year of Charles Darwin s birth Jean Baptiste Lamarck published Philosophie zoologique the first comprehensive and systematic theory of biological evolution The Lamarckian approach emphasizes the generation of developmental variations Darwinism stresses selection Lamarck s ideas were eventually eclipsed by Darwinian concepts especially after the emergence of the Modern Synthesis in the twentieth century The different approaches which can be seen as complementary rather than mutually exclusive have important implications for the kinds of questions biologists ask and for the type of research they conduct Lamarckism has been evolving or in Lamarckian terminology transforming since Philosophie zoologique s description of biological processes mediated by subtle fluids Essays in this book focus on new developments in biology that make Lamarck s ideas relevant not only to modern empirical and theoretical research but also to problems in the philosophy of biology Contributors discuss the historical transformations of Lamarckism from the 1820s to the 1940s and the different understandings of Lamarck and Lamarckism the Modern Synthesis and its emphasis on Mendelian genetics theoretical and experimental research on such Lamarckian topics as plasticity soft epigenetic inheritance and individuality and the importance of a developmental approach to evolution in the philosophy of biology The book shows the advantages of a Lamarckian perspective on evolution Indeed the development oriented approach it presents is becoming central to current evolutionary studies as can be seen in the burgeoning field of Evo Devo Transformations of Lamarckism makes a unique contribution to this research **The Brassicaceae — Agri-Horticultural and Environmental Perspectives** Naser A.

Anjum,Sarvajeet Singh Gill,Om Parkash Dhankher,Juan F. Jimenez,Narendra Tuteja,2018-11-16 This Frontiers Research Topic The Brassicaceae Agri Horticultural and Environmental Perspectives is an effort to provide a common platform to

agronomists horticulturists plant breeders plant geneticists molecular biologists plant physiologists and environmental plant scientists exploring major insights into the role of important members of the plant family Brassicaceae the mustard family or Cruciferae in agri horticultural and environmental arenas **Evolution and Biodiversity of Wild Polyploids** Elvira Hörandl, Natascha D. Wagner, Karol Marhold, Christoph Oberprieler, 2021-09-28

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