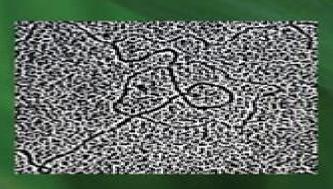
Plant Transposons and Genome Dynamics in Evolution





Edited by Nina V. Fedoroff

Plant Transposons And Genome Dynamics In Evolution

Tariq Ahmad Bhat, Khalid Rehman Hakeem

Plant Transposons And Genome Dynamics In Evolution:

Plant Transposons and Genome Dynamics in Evolution Nina V. Fedoroff, 2013-04-15 The transposable genetic elements or transposons as they are now known have had a tumultuous history Discovered in the mid 20th century by Barbara McClintock they were initially received with puzzlement When their genomic abundance began to be apparent they were categorized as junk DNA and acquired the label of parasites Expanding understanding of gene and genome organization has revealed the profound extent of their impact on both Plant Transposons and Genome Dynamics in Evolution captures and distills the voluminous research literature on plant transposable elements and seeks to assemble the big picture of how transposons shape gene structure and regulation as well as how they sculpt genomes in evolution Individual chapters provide concise overviews of the many flavors of plant transposons and of their roles in gene creation gene regulation development genome evolution and organismal speciation as well as of their epigenetic regulation This volume is essential reading for anyone working in plant genetics epigenetics or evolutionary biology From Chromosomes to Mobile Genetic Elements Lee B. Kass, 2024-06-27 This biography of Nobel Laureate Barbara McClintock 1902 1992 places her life and work in its social scientific and personal context The author examines the development of Barbara McClintock's scientific work and her influence upon individuals and upon the fields of cytogenetics and evolutionary biology in the period from 1902 to the present The history documents years of McClintock's notable and lauded scientific work long before she discovered and named transposable elements in the mid 1940s for which she ultimately received the Nobel Prize The biography employs documented evidence to expose demystify and provide clarity for legends and misinterpretations of McClintock's life and work Key Features Exposes and demystifies myths and legends told about McClintock's time in Missouri Clarifies the changing language of genes and genetics Places in perspective the history of McClintock's research Documents McClintock's family and early life before college Provides documented details of McClintock's time in Nazi Germany 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 The Brassica

napus Genome Shengyi Liu, Rod Snowdon, Boulos Chalhoub, 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 The Ginseng Genome Jiang Xu, Tae-Jin Yang, Hao-yu Hu, 2021-05-02 This book represents the first crop evolution comprehensive compilation of information on all aspects of the medicinal plant Panax ginseng ranging from its botany to applied aspects in medicine and molecular breeding In contributions by respected experts it also discusses the genetic background and biochemical profile of this important medicinal plant Ginsenoside biosynthesis and metabolic dynamics are also described in detail Given its scope the book offers a valuable guide for students educators and scientists in academia and industry interested in medicinal plants and pharmacy **Biotechnologies and Genetics in Plant Mutation Breeding** Tariq Ahmad Bhat, Khalid Rehman Hakeem, 2023-06-30 An indispensable source for researchers teachers and graduate and postgraduate students interested in mutation breeding and genetic engineering It introduces readers to contemporary knowledge and state of the art technologies in the field of mutation breeding including fundamental mechanisms and applications It will provide new directions and avenues for enhancement of food security and food quality by using the latest techniques for the mutation as breeding approach From Prof Jameel M Al Khayri King Faisal University Saudi Arabia This comprehensive three volume set book aims to help combat the challenge of providing enough food for the world by the use of advanced genetic processes to improve crop production both in quantity and quality Volume 1 Mutagenesis and Crop Improvement discusses mutagenesis cytotoxicity and crop improvement covering the processes mutagenic effectiveness and mechanisms. The volume emphasizes the improvement of agronomic characteristics by manipulating the genotype of plant species resulting in increased productivity Volume 2 Revolutionizing Plant Biology covers the use of mutagenesis and biotechnology to explore the variability of mutant genes for crop improvement The chapters deal with in vitro mutagenesis to exploit the somaclonal variations induced in cell culture and highlight the importance of in vitro mutagenesis in inducing salt resistance heat resistance and drought resistance Volume 3 Mechanisms for Genetic Manipulation of Plants and Plant

Mutants reviews the genetic engineering techniques used to mutate genes and to incorporate them into different plant species of cereals pulses vegetables and fruits Also discussed are the principles of genetic engineering by which desired genes can be transferred from plants to animals to microorganisms and vice versa 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 Introgression in Wheat Márta Molnár-Láng, Carla Ceoloni, Jaroslav Doležel, 2015-11-20 This book provides an overview of the latest advancements in the field of alien introgression in wheat The discovery and wide application of molecular genetic techniques including molecular markers in situ hybridization and genomics has led to a surge in interspecific and intergeneric hybridization in recent decades The work begins with the taxonomy of cereals especially of those species which are potential gene sources for wheat improvement The text then goes on to cover the origin of wheat breeding in connection with alien introgressions and the problems of producing intergeneric hybrids and backcross derivatives These problems can include crossability sterility and unequal chromosome transmission The work then covers alien introgressions according to the related species used as well as new results in the field of genomics of wild wheat relatives and introgressions Wheat **Evolution and Domestication** Moshe Feldman, Avraham A. Levy, 2023-10-03 This open access book covers a century of research on wheat genetics and evolution starting with the discovery in 1918 of the accurate number of chromosomes in wheat We re evaluate classical studies that are pillars of the current knowledge considering recent genomic data in the wheat group comprising 31 species from the genera Amblyopyrum Aegilops Triticum and other more distant relatives For these species we describe morphology ecogeographical distribution phylogeny as well as cytogenetic and genomic features For crops we also address evolution under human selection namely pre domestication cultivation and domestication We re examine the genetic and archeological evidence of where when and how domestication occurred We discuss unique aspects

of genome evolution and maintenance under polyploidization in natural and synthetic allopolyploids of the wheat group Finally we propose some thoughts on the future prospects of wheat improvement As such it can be of great interest to wheat researchers and breeders as well as to plant scientists and students interested in plant genetics evolution domestication and polyploidy Plant Epigenetics Nikolaus Rajewsky, Stefan Jurga, Jan Barciszewski, 2017-04-27 This book presents in 26 chapters the status quo in epigenomic profiling It discusses how functional information can be indirectly inferred and describes the new approaches that promise functional answers collectively referred to as epigenome editing It highlights the latest important advances in our understanding of the functions of plant epigenomics and new technologies for the study of epigenomic marks and mechanisms in plants Topics include the deposition or removal of chromatin modifications and histone variants the role of epigenetics in development and response to environmental signals natural variation and ecology as well as applications for epigenetics in crop improvement Discussing areas ranging from the complex regulation of stress and heterosis to the precise mechanisms of DNA and histone modifications it presents breakthroughs in our understanding of complex phenotypic phenomena

Plant Transposons And Genome Dynamics In Evolution Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Plant Transposons And Genome Dynamics In Evolution**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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