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Methods and Protocols

 Humana Press

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Sònia Garcia, Neus Nualart



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Transposons and Retrotransposons: Methods and Protocols Jose Luis Garcia Perez, 2018-04-15 This volume covers the latest protocols designed to identify and characterize TEs in genomes ancient or recently inserted Additionally this book includes a series of protocols designed to understand how host genomes act to regulate the activity of TEs from elegant genetic mobilization assays to key biochemical methods Finally this book also includes chapters that describe how TEs can be used for biotechnological applications Written for the Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical Transposons and Retrotransposons Methods and Protocols aims to ensure successful results in the further study of this vital field Plant Retrotransposons

Deepu Pandita, Anu Pandita, 2025-03-13 This book provides an up to date outlook on the origin evolution structure genomic organization expression regulation and transposition mechanism of retrotransposons in the plant genome and computational tools and algorithms to analyze retrotransposons across different species and their use as genetic tools in crop breeding and improvement The book also highlights the biotechnological applications of the retrotransposon transposable elements Previously dismissed as parasites selfish or JUNK DNA these elements are now recognized as Just Unexplored Novel Know how Retrotransposons play crucial roles in gene function genomic organization mutations stress responses genome regulation epigenomics diversity evolution and plant speciation Leveraging these as biotechnological tools can help develop climate smart crops for sustainable agriculture *Transposable Elements* Miguel R. Branco, Alexandre de Mendoza Soler, 2022-11-30 The volume presents a small selection of state of the art approaches for studying transposable elements TE Chapters guide readers through HTS based approaches bioinformatic tools methods to study TE protein complexes and the functional impact on the host Written in the successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible protocols and notes on troubleshooting and avoiding known pitfalls Authoritative and cutting edge Transposable Elements Methods and Protocols aims to be a useful practical guide to researches to help further their study in this field **The**

Soybean Genome Henry T. Nguyen, Madan Kumar Bhattacharyya, 2017-09-20 This book examines the application of soybean genome sequences to comparative structural and functional genomics Since the availability of the soybean genome sequence has revolutionized molecular research on this important crop species the book also describes how the genome sequence has shaped research on transposon biology and applications for gene identification tilling and positional gene cloning Further the book shows how the genome sequence influences research in the areas of genetic mapping marker development and genome wide association mapping for identifying important trait genes and soybean breeding In closing the economic and botanical aspects of the soybean are also addressed **Drosophila Cytogenetics Protocols** Daryl S. Henderson, 2008-02-03 Leading

drosophilists describe in step by step detail all the essential techniques for studying Drosophila chromosomes and suggest new avenues for scientific exploration The chapters emphasize specimen preparation from dissection to mounting and cover both polytene and mitotic meiotic chromosomes in depth Each fully tested and readily reproducible protocol offers a background introduction equipment and reagent lists and tips on troubleshooting and avoiding pitfalls A cutting edge FISH and immunolocalization technique will be important for discovering how DNA sequence influences higher order chromosome architecture and ultimately gene expression **Mobile Genetic Elements** Wolfgang J. Miller, Pierre Capi, 2008-02-05

Leading experts describe in step by step detail their most productive transposon based methods and strategies for studying genome structure function and evolution These readily reproducible techniques cover a wide range including mutagenesis transgenesis gene silencing and molecular systematics Among the highlights are a series of DNA hybridization methods for analyzing the distribution and dynamics of mobile DNA at the hosts genomic level techniques for studying LTR retrotransposons in heterologous host systems and mutagenesis protocols for investigating gene functions in a broad range of organisms These cutting edge methods offer investigators powerful genetic tools for dissecting the function of a specific gene elaborating on the mechanisms leading to genetic change and diversity and studying the evolutionary impact of mobile DNA on the biology and evolution of organisms **Molecular Biology** Jordanka Zlatanova, 2023-04-21 Molecular Biology

Structure and Dynamics of Genomes and Proteomes second edition illustrates the essential principles behind the transmission and expression of genetic information at the level of DNA RNA and proteins Emphasis is on the experimental basis of discovery and the most recent advances in the field while presenting a rigorous yet still concise summary of the structural mechanisms of molecular biology Topics new to this edition include the CRISPR Cas gene editing system Coronaviruses structure genome vaccine and drug development and newly recognized mechanisms for transcription termination The text is written for advanced undergraduate or graduate level courses in molecular biology Key Features Highlights the experimental basis of important discoveries in molecular biology Thoroughly updated with new information on gene editing tools viruses and transcription mechanisms termination and antisense Provides learning objectives for each chapter Includes a list of relevant videos from the Internet about the topics covered in the chapter **Genome Size and**

Genetic Homogeneity of Regenerated Plants: Methods and Applications A. Mujib, 2023-09-13 This reference is a timely compilation of studies of genome size and genetic stability of regenerated plants It presents 13 book chapters that cover recent advancements in CRISPR Cas based genome editing the use of molecular markers to analyze somaclonal variation in tissue culture and genetic stability assessment in various plant species including medicinally valuable plants like Valeriana and Coffea The book also highlights the role of flow cytometry in investigating polyploidy and provides valuable insights into genetic fidelity assessment of micropropagated woody plants and orchids The contributors have shed light on the intra specific and inter specific genome and chromosome number variation with reference to gene duplication and DNA sequence

loss Molecular techniques for detecting ploidy levels and genetic homogeneity in regenerated plantlets are also discussed Additional highlights of the book include brief guidelines for experimental protocols for flow cytometry and molecular markers coverage of a wide range of plants and supporting references This is an excellent reference for biologists geneticists and plant scientists exploring genetic homogeneity and genome size variation in diverse plant groups **Food Molecular Microbiology** Spiros Paramithiotis, Jayanta K Patra, 2019-02-14 With the advances in the field of molecular biology new tools make it possible to conduct in depth studies in food microbial communities from a molecular perspective Information from genomic transcriptomic proteomic and metabolomic studies can be integrated through bioinformatic applications thereby improving our understanding of the interactions between biotic and abiotic factors and concomitantly the physiology of starter cultures spoilage and pathogenic microbiota Improvements in the speed accuracy and reliability of food quality and safety assessment have made the foundation stronger for future developments including the exploitation of gene networks and applications of nanotechnology and systems biology This book reviews all these developments provides an integrated view of the subject and helps in identifying areas of future development *Plant Genomic and Cytogenetic Databases* Sònia Garcia, Neus Nualart, 2023-08-30 This volume discusses the latest online plant genomics and cytogenetic resources used by plant evolutionary biologists and plant breeders The chapters in this book are organized into two parts Part One looks at plant genomic databases and covers topics such as plant phenomics and genomics research data repositories InpactorDB PlanTEenrichment and PEATmoss among others Part Two looks at cytogenetics and chromosome related databases and covers resources such as the Plant DNA C values database the Delphineae Chromosome Database DCDB B chrom a Database on B chromosomes and the Plant Ribosomal DNA Database Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective databases and offers explicit directions on how to access and get the most of these resources Cutting edge and comprehensive Plant Genomic and Cytogenetic Databases is a valuable instrument for any plant science researcher who is interested in learning more about the wealth of information that is available through the use of these databases

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