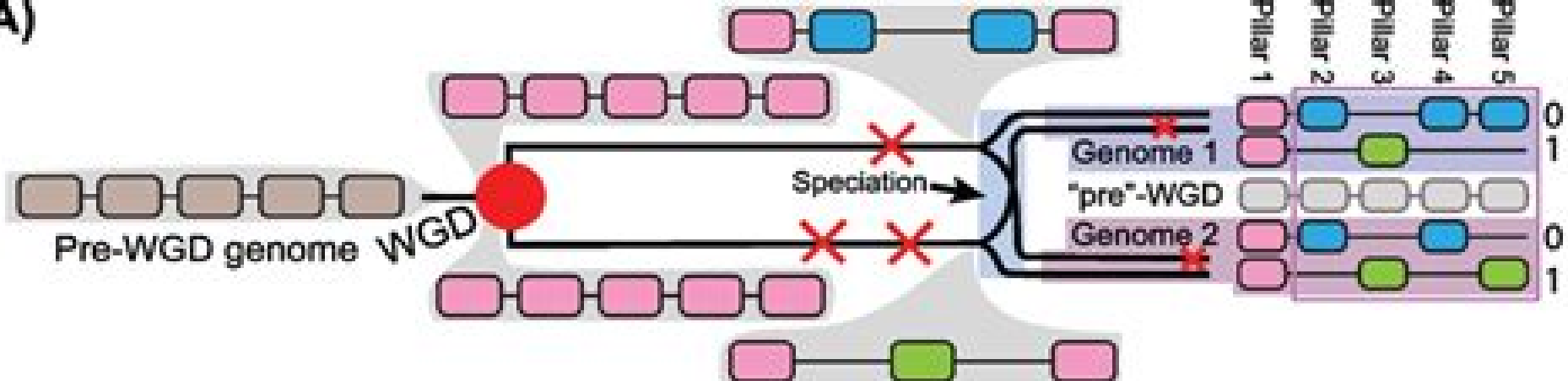


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Pontarotti, 2014-07-25 This book includes the most essential contributions presented at the 17th Evolutionary Biology Meeting in Marseille which took place in September 2013 It consists of 18 chapters organized according to the following categories 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.

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

Comparative and Evolutionary Genomics of Angiosperm Trees Andrew Groover, Quentin Cronk, 2017-11-21

Marking the change in focus of tree genomics from single species to comparative approaches, this book covers biological, genomic, and evolutionary aspects of angiosperm trees that provide information and perspectives to support researchers broadening the focus of their research. The diversity of angiosperm trees in morphology, anatomy, physiology, and biochemistry has been described and cataloged by various scientific disciplines, but the molecular genetic and evolutionary mechanisms underlying this diversity have only recently been explored. Excitingly, advances in genomic and sequencing technologies are ushering a new era of research broadly termed comparative genomics, which simultaneously exploits and describes the evolutionary origins and genetic regulation of traits of interest. Within tree genomics, this research is already underway as the number of complete genome sequences available for angiosperm trees is increasing at an impressive pace, and the number of species for which RNAseq data are available is rapidly expanding. Because they are extensively covered by other literature and are rapidly changing technical and computational approaches such as the latest sequencing technologies are not a main focus of this book. Instead, this comprehensive volume provides a valuable broader view of tree genomics whose relevance will outlive the particulars of current day technical approaches. The first section of the book discusses background on the evolution and diversification of angiosperm trees as well as offers description of the salient features and diversity of the unique physiology and wood anatomy of angiosperm trees. The second section explores the two most advanced model angiosperm tree species, poplars and eucalypts, as well as species that are soon to emerge as new models. The third section describes the structural features and evolutionary histories of angiosperm tree genomes, followed by a fourth section focusing on the genomics of traits of biological, ecological, and economic interest. In summary, this book is a timely and well-referenced foundational resource for the forest tree community looking to embrace comparative approaches for the study of angiosperm trees.

Evolution and Biodiversity of Wild Polyploids Elvira Hörandl, Natascha D. Wagner, Karol Marhold, Christoph Oberprieler, 2021-09-28

The Brassica oleracea Genome Shengyi Liu, Rod Snowdon, Chittaranjan Kole, 2021-03-04

This book presents comprehensive information on genetics, genomics, and breeding in *Brassica oleracea*, an agriculturally important species that includes popular vegetable crops such as cabbage, cauliflower, broccoli, Brussels sprouts, kale, collard greens, savoy, kohlrabi, and gai lan. The content spans whole genome sequencing, assembly, and gene annotation for this global vegetable species, along with molecular mapping and cloning of genes, physical genome mapping, and analyses of the structure and composition of

centromeres in the *B. oleracea* genome The book also elaborates on asymmetrical genome evolution and transposable elements in the *B. oleracea* describes gene family differentiation in comparison to other Brassica species and structural and functional genomic resources and data bases developed for *B. oleracea* Useful discussions on the impact of genome sequencing on genetic improvement in the species are also included **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 **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 **Polyloid Population Genetics and Evolution - From Theory to Practice** Hans D. Daetwyler, Richard John Abbott, 2020-01-28

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