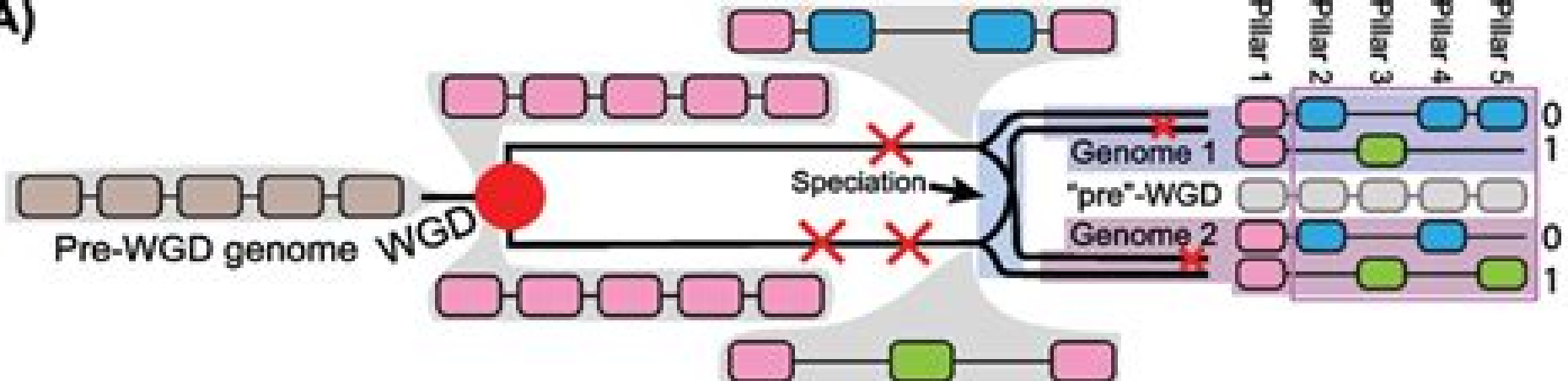
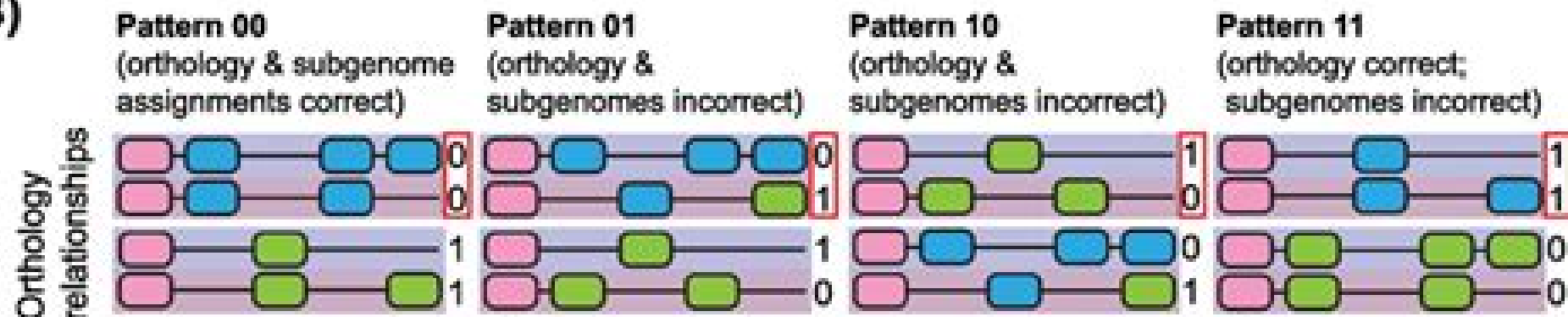


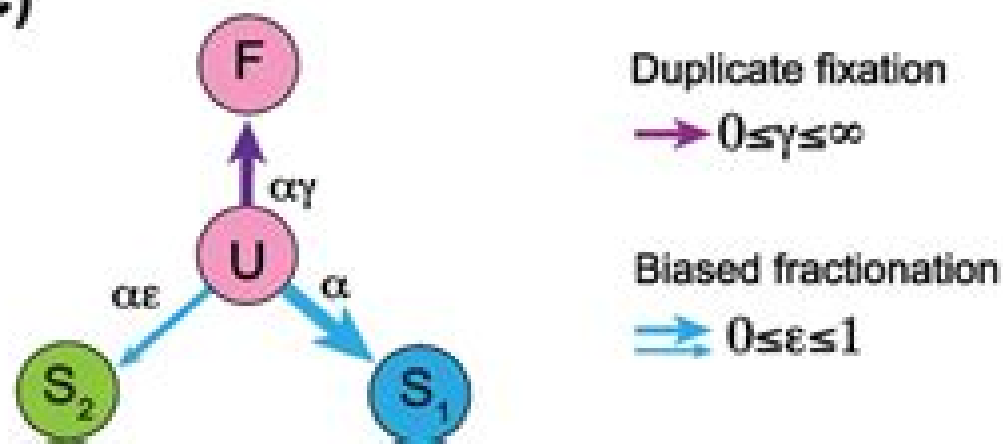
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Polyploidy And Genome Evolution

Pierre Pontarotti



Polyploidy And Genome Evolution:

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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.

Phylogeny and Evolution of the Angiosperms Douglas Soltis, Pamela Soltis, Peter Endress, Mark Chase, Steven Manchester, Walter Judd, Lucas Majure, Evgeny Mavrodiev, 2018-01-24. Although they are relative latecomers on the evolutionary scene, having emerged only 135–170 million years ago, angiosperms or flowering plants are the most diverse and species-rich group of seed-producing land plants, comprising more than 15 000 genera and over 350 000 species. Not only are they a model group for studying the patterns and processes of evolutionary diversification, they also play major roles in our economy, diet, and courtship rituals, producing our fruits, legumes, and grains, not to mention the flowers in our Valentine's bouquets. They are also crucial ecologically dominating most terrestrial and some aquatic landscapes. This fully revised edition of *Phylogeny and Evolution of the Angiosperms* provides an up-to-date comprehensive overview of the evolution of and relationships among these vital plants. Incorporating molecular phylogenetics with morphological, chemical, developmental, and paleobotanical data, as well as presenting a more detailed account of early angiosperm fossils and important fossil information for each evolutionary branch of the angiosperms, the new edition integrates fossil evidence into a robust phylogenetic framework. Featuring a wealth of new color images, this highly synthetic work further reevaluates long-held evolutionary hypotheses related to flowering plants and will be an essential reference for botanists, plant systematists, and evolutionary biologists alike.

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.

Polyploidy and its consequences Yves Van de Peer, Andrew H. Paterson, Jonathan F. Wendel, 2023-09-28. *Model Organisms in Plant Genetics* Ibrokhim Y. Abdurakhmonov, 2022-06-23. Model plants are required for research when targeted plant species are difficult to study or when research material is unavailable. Importantly, knowledge gained from model plants can be generally translated to other related plant species because many key cellular and molecular processes are conserved and regulated by blueprint genes inherited from a common ancestor. *Model Organisms in Plant Genetics* addresses

characteristics of model plants such as Arabidopsis moss soybean maize and cotton highlighting their advantages and limitations as well as their importance in studies of plant development plant genome polyploidization adaptive selection evolution and domestication as well as their importance in crop improvement **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 **New Trends on Genome and Transcriptome Characterizations** Rosalba Giugno, Vincenzo Manca, 2018-10-11 *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

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