

Angiosperm Phylogeny And Evolution

Armen Takhtajan



Angiosperm Phylogeny And Evolution:

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

Flowering Plants Armen Takhtajan, 2009-07-06 Armen Takhtajan is among the greatest authorities in the world on the evolution of plants This book culminates almost sixty years of the scientist s research of the origin and classification of the flowering plants It presents a continuation of Dr Takhtajan s earlier publications including *Systema Magnoliophytorum* 1987 in Russian and *Diversity and Classification of Flowering Plants* 1997 in English In his latest book the author presents a concise and significantly revised system of plant classification Takhtajan system based on the most recent studies in plant morphology embryology phytochemistry cytology molecular biology and palynology Flowering plants are divided into two classes class Magnoliopsida or Dicotyledons includes 8 subclasses 126 orders c 440 families almost 10 500 genera and no less than 195 000 species and class Liliopsida or Monocotyledons includes 4 subclasses 31 orders 120 families more than 3 000 genera and about 65 000 species This book contains a detailed description of plant orders and descriptive keys to plant families providing characteristic features of the families and their differences

Early Flowers and Angiosperm Evolution Else Marie Friis, Peter R. Crane, Kaj Raunsgaard Pedersen, 2011-08-18 The recent discovery of diverse fossil flowers and floral organs in Cretaceous strata has revealed astonishing details about the structural and systematic diversity of early angiosperms Exploring the rich fossil record that has accumulated over the last three decades this is a unique study of the evolutionary history of flowering plants from their earliest phases in obscurity to their dominance in modern vegetation The discussion provides comprehensive biological and geological background information before moving on to summarise the fossil record in detail Including previously unpublished results based on research into

Early and Late Cretaceous fossil floras from Europe and North America the authors draw on direct palaeontological evidence of the pattern of angiosperm evolution through time Synthesising palaeobotanical data with information from living plants this unique book explores the latest research in the field highlighting connections with phylogenetic systematics structure and the biology of extant angiosperms *Flowering Plant Origin, Evolution & Phylogeny* David W. Taylor, Leo Hickey, 2007-08-28 Contributors ix Chapter Introduction The Challenge of Flowering Plant History David Winship Taylor and Leo J Hickey Chapter 2 A Survey of Reticulate Venation Among Fossil and Living Land Plants Mary Louise Trivett and Kathleen B Pigg Chapter 3 A New Gnetophyte from the Late Carnian Late Triassic of Texas and its Bearing on the Origin of the Angiosperm Carpel and Stamen 32 Bruce Cornet Chapter 4 Wood Anatomy of Primitive Angiosperms New Perspectives and Syntheses 68 Sherwin Carlquist Chapter 5 Evidence for the Earliest Stage of Angiosperm Pollen Evolution A Paleoequatorial Section from Israel 91 Gilbert J Brenner Chapter 6 The Origin and Evolution of the Angiosperm Carpel 116 David Winship Taylor and Gretchen Kirchner Chapter Floral Structure Development and Relationships of Paleoherbs *Saruma* *Cabomba* *Lactoris* and Selected Piperales 141 Shirley Tucker and Andrew Douglas Chapter 8 Origin of the Angiosperm Flower 176 Leo J Hickey and David Winship Taylor Chapter Evidence for and Implications of an Herbaceous Origin for Angiosperms 232 David Winship Taylor and Leo J Hickey Chapter Comparison of Alternative Hypotheses for the Origin of the Angiosperms 267 Henry Loconte 10 9 W C 7 1 CONTENTS vi Contents Chapter The Least Specialized Angiosperms 286 Robert F Thorne Chapter Molecular Phylogenies and the Diversification of the Angiosperms 314 Kenneth J Sytsma and David A Baum 341 References Appendix Stratigraphic Time Scale 387 Index 12 11 **Phylogeny and Evolution of Angiosperms**, 2005 **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

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 Systematics Michael G. Simpson, 2011-08-09 Plant Systematics is a comprehensive and beautifully illustrated text covering the most up to date and essential paradigms concepts and terms required for a basic understanding of plant systematics This book contains numerous cladograms that illustrate the evolutionary relationships of major plant groups with an emphasis on the adaptive significance of major evolutionary novelties It provides descriptions and classifications of major groups of angiosperms including over 90 flowering plant families a comprehensive glossary of plant morphological terms as well as appendices on botanical illustration and plant descriptions Pedagogy includes review questions exercises and references that complement each chapter This text is ideal for graduate and undergraduate students in botany plant taxonomy plant systematics plant pathology ecology as well as faculty and researchers in any of the plant sciences The Henry Allan Gleason Award of The New York Botanical Garden awarded for Outstanding recent publication in the field of plant taxonomy plant ecology or plant geography 2006 Contains numerous cladograms that illustrate the evolutionary relationships of major plant groups with an emphasis on the adaptive significance of major evolutionary novelties Provides descriptions and classifications of major groups of angiosperms including over 90 flowering plant families Includes a comprehensive glossary of plant morphological terms as well as appendices on botanical illustration and plant description

Developmental Genetics of the Flower, 2006-09-29 Current major interests in this area include the study of higher level phylogenetic relationships and character evolution in the angiosperms floral evolution the genetic basis of key floral differences in basal angiosperms the genetic and genomic consequences of polyploid speciation conservation genetics

of rare plant species and phylogeography Developmental Genetics of the Flower provides a series of papers focused on the developmental genetics of flowering as well as the genetic control of the timing of flowering Investigation of speciation mechanisms evolutionary relationships and character evolution in flowering plants and land plants utilizing a variety of experimental approaches are discussed The chapters are excellent reviews of the current fast moving area of research Provides a brief review of genes known to regulate flower development Articles emphasize the classic ABC model of flower development

Flowering Plants. Eudicots Klaus Kubitzki,2007-04-24 In this volume treatments are offered for 52 families containing 432 genera belonging to 13 eudicot orders many of which have recently been newly designed four families remain unassigned to order Emphasis is on the early diverging eudicots and basal core eudicots The wealth of information contained in this volume will make it an important source of reference for both the scholar and the practitioner in the fields of pure and applied plant sciences

Early Events in Monocot Evolution Paul Wilkin,Simon J. Mayo,2013-05-30 Leading scientists in the field trace the evolution of the one of the most ancient major branches of flowering plants

Evolution of Reproductive Organs in Land Plants Xin Wang,Zhong-Jian Liu,Borja Cascales-Miñana,José Bienvenido Diez,2018-04-06 The great diversity of land plants especially angiosperms is mainly reflected in the diversity of various reproductive organs of plants However despite long time intensive investigations there are still uncertainties and sometimes misunderstandings over the nature and evolution of reproductive organs in land plants With the new advances made in various fields of botany especially at molecular level there is increasing light shed on some aspects of flowers reproductive organs of angiosperms In this ebook we collect 15 papers reporting new understanding on plant reproductive organs These works range from morphology and anatomy to molecular regulatory networks underlying traditional observations We understand this single book cannot reach our goal but we do hope that this book can contribute to or initiate some efforts leading to the final solution of some problems concerning the homology and evolution of reproductive organs in plants

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

Molecular Evolution and Adaptive Radiation Thomas J. Givnish,Kenneth J. Sytsma,2000-05-08 This volume surveys advances in the study of adaptive radiation showing how molecular characters can be used to analyze the origin and pattern

of diversification within a lineage in a non circular fashion **Patterns of evolution, as illustrated by the fossil record**
,1977-01-15 Patterns of evolution as illustrated by the fossil record **Plant Systematics** Gurcharan Singh,2004 The book strikes a balance between classical fundamental information and the recent developments in plant systematics Special attention has been devoted to the information on botanical nomenclature identification and phylogeny of angiosperms with numerous relevant examples and detailed explanation of the important nomenclatural problems An attempt has been made to present a continuity between orthodox and contemporary identification methods by working on a common example The methods of identification using computers have been further explored to help better online identification The chapter on cladistic methods has been totally revised and molecular systematics discussed in considerable detail Jacket **Refining Phylogenetic Analyses** Pablo A. Goloboff,2022-07-22 This volume discusses the aspects of a phylogenetic analysis that go beyond basic calculation of most parsimonious trees Practical application of all principles discussed is illustrated by reference to TNT a freely available software package that can perform all the steps needed in a phylogenetic analysis The first problem considered is how to summarize and compare multiple trees including identification and handling wildcard taxa Evaluation of the strength of support for groups another critical component of any phylogenetic analysis is given careful consideration The different interpretations of measures of support are discussed and connected with alternative implementations The book reviews rationales for estimating character reliability on the basis of homoplasy with particular attention to morphological characters The main methods for character weighting and their practical implementation several of them unique to TNT are discussed ad libitum Also unique to TNT is the ability to directly analyze morphometric data including landmarks on the same footing as discrete characters Finally the scripting language of TNT is introduced With scripting it is possible to program TNT to create personalized routines and automate complex calculations taking analyses to the next level and allowing exploration of new methods and ideas Key Features Discusses the treatment of ambiguity in phylogenetic analyses in depth for summarizing results or comparing trees Reviews literature on arguments and methods for weighting morphological characters and their practical application Describes theory and application of methods for evaluating strength of group support based on either resampling or comparisons with suboptimal trees Discusses the use of morphometric characters in phylogenetic analysis Presents extensive information on commands and options of the TNT computer program including the use and creation of scripts *Multi-omics and Computational Biology in Horticultural Plants: From Genotype to Phenotype, Volume II* Yunpeng Cao,Hui Song,Muhammad Abdullah,Xiaoxu Li,Muhammad Aamir Manzoor,2024-02-13 This Research Topic is part of the article collection series Multi omics and Computational Biology in Horticultural Plants From Genotype to Phenotype Horticultural plants play an important role for humans by providing herbal medicines beverages vegetables fruits and ornamentals High throughput technologies have revolutionised the time scale and power of detecting insights into physiological changes and biological mechanisms in plants All sequencing data and tools

have helped us better understand the evolutionary histories of horticultural plants and provide genotype and phenotype resources for molecular studies on economically important traits. The integration of these omics technologies e.g. genomics, transcriptomics, proteomics, metabolomics, lipidomics, ionomics, and redoxomics is currently at the forefront of plant research. The genomes of horticultural plants are highly diverse and complex, often with a high degree of heterozygosity and polyploidy. Novel computational methods need to be developed to take advantage of state-of-the-art genomic technologies. As a result, the mining of multi-omics data and the development of new computational biology approaches for the reliable and efficient analysis of plant traits is necessary.

Molecular Systematics of Plants II Pamela Soltis, J.J. Doyle, 2012-12-06

In the five years since the publication of *Molecular Systematics of Plants*, the field of molecular systematics has advanced at an astonishing pace. This period has been marked by a volume of new empirical data and advances in theoretical and analytical issues related to DNA. Comparative DNA sequencing, facilitated by the amplification of DNA via the polymerase chain reaction (PCR), has become the tool of choice for molecular systematics. As a result, large portions of the *Molecular Systematics of Plants* have become outdated. *Molecular Systematics of Plants II* summarizes these recent achievements in plant molecular systematics. Like its predecessor, this completely revised work illustrates the potential of DNA markers for addressing a wide variety of phylogenetic and evolutionary questions. The volume provides guidance in choosing appropriate techniques as well as appropriate genes for sequencing for given levels of systematic inquiry. More than a review of techniques and previous work, *Molecular Systematics of Plants II* provides a stimulus for developing future research in this rapidly evolving field. *Molecular Systematics of Plants II* is not only written for systematists, faculty, graduate students, and researchers, but also for evolutionary biologists, botanists, and paleobotanists interested in reviewing current theory and practice in plant molecular systematics.

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Angiosperm Phylogeny And Evolution Introduction

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