

Ecological Strategies of Xylem Evolution

Sherwin Carlquist



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Ecological Strategies Of Xylem Evolution:

Ecological Strategies of Xylem Evolution Sherwin John Carlquist, 1975-01-01 Ferns Pteridophytes other than ferns Fossil pteridophytes Stelar theory Cycads and ginkgo Conifers and taxads Monocotyledons gymnocytes Vesselless dicotyledons Dicotyledons with primitive vessels Gnetales Specialization in dicotyledonous wood Sieve elements extraxylary mechanical tissue

Xylem Structure and the Ascent of Sap Melvin T. Tyree, Martin H. Zimmermann, 2013-03-09 The first edition of this book was the first to provide an integrated description of sap ascension from an anatomical and functional point of view The second edition opens with the three dimensional aspects of wood anatomy The cohesion tension theory and new evidence are introduced in response to recent controversies over the mechanism of sap ascent in plants The physiology anatomy and biophysics of xylem dysfunction are discussed and new insights into hydraulic architecture are reviewed with special emphasis on physiological limits on maximum transpiration and how hydraulic architecture limits gas exchange carbon gain and growth of plants The text concludes with a description of xylem failure and pathology The book highlights fascinating areas of current research with the aim to stimulate more work in the future

Systematics and Evolution of the Ranunculiflorae Uwe Jensen, Joachim W. Kadereit, 2012-12-06 The volume presents current ideas about the systematics and evolution of the Ranunculiflorae and most of its constituent families A strong effort has been made to integrate DNA and morphological anatomical etc evidence and new ideas about the origin and phylogeny of the entire group as well as the Berberidaceae Lardizabalaceae Ranunculaceae and Papaveraceae are arrived at

Advances in Ecological Research, 1983-06-23 *Advances in Ecological Research*

Evolutionary Trends in Flowering Plants Armen Leonovich Takhtadzhian, 1991 Takhtajan one of the foremost authorities on flowering plant evolution has brought together from the literature and his own studies interpretations of the origin and evolution of various vegetative and reproductive parts of flowering plants Starting with growth habit he continues through leaf and stem structure including the origin of vessels sieve tubes and rays to flowers After tracing the possible origin of the flower he discusses in detail the sepals petals stamens and carpels accounting for their variations in number of parts fusion position and structure The evolution and origin of the micro and megagametophytes and the development of triple fusion are considered The book ends with the developmental sequence of the fruit and seed types Each chapter has its own extensive bibliography Takhtajan has produced a book that will be essential in the library of any college where plant evolution is considered C T Mason Jr University of Arizona Choice Reviews

Patterns of evolution, as illustrated by the fossil record, 1977-01-15 *Patterns of evolution as illustrated by the fossil record*

Vascular Transport in Plants N. Michelle Holbrook, Maciej A. Zwieniecki, 2011-09-06 *Vascular Transport in Plants* provides an up to date synthesis of new research on the biology of long distance transport processes in plants It is a valuable resource and reference for researchers and graduate level students in physiology molecular biology physiology ecology ecological physiology development and all applied disciplines related to agriculture horticulture forestry and biotechnology

The book considers long distance transport from the perspective of molecular level processes to whole plant function allowing readers to integrate information relating to vascular transport across multiple scales The book is unique in presenting xylem and phloem transport processes in plants together in a comparative style that emphasizes the important interactions between these two parallel transport systems Includes 105 exceptional figures Discusses xylem and phloem transport in a single volume highlighting their interactions Syntheses of structure function and biology of vascular transport by leading authorities Poses unsolved questions and stimulates future research Provides a new conceptual framework for vascular function in plants Sieve Elements H.-D. Behnke,R.D. Sjolund,2012-12-06 This detailed overview of the structure of the sieve elements of the major plant groups from algae to flowering plants includes extant and extinct groups revealing both common and divergent solutions to the problem of long distance assimilate transport *Asia-Pacific Conference on Science and Management of Coastal Environment* Yuk-Shan Wong,Nora Fung-Yee Tam,2012-12-06 Human beings have a long historical relationship with the coast Initially it provided food and security later forming important locations for industrial and commercial development Now the emphasis has shifted towards leisure and conservation although the former functions remain crucial However it is only very recently that people have started viewing the coast as a common and valuable resource that requires rational utilisation and scientific management in order to sustain its attractiveness Of course enlightened management comes only through understanding of the complicated coastal regions which enables coastal managers to balance pressures from different sectors and to minimize risks Scientific knowledge will continue to be the most important basis for resolving the conflicts between coastal users and interest groups such as developers and ecologists Coastal management has also shifted from traditional restorative or remedial actions towards planned avoidance of other conflicts Despite rapid advancement in coastal sciences over recent decades most of the major coastal issues have remained outstanding in the agenda Control of shoreline erosion and protecting sea level rise continue to be crucial problems facing coastal scientists Destructive coastal storms still cause tremendous damage particularly in low altitudes Wetland and estuary reclamation have led to the loss of the most valuable estuary wetlands which are required to sustain biological productivity and biodiversity This volume includes papers on marine and coastal pollution eutrophication aquaculture conservation and utilization coastal wetlands and coastal zone management New Perspectives in Wood Anatomy P. Baas,2013-03-09 On the occasion of the 50th Anniversary of the International Association of Wood Anatomists several symposia were held during the 13th International Botanical Congress in Sydney August 1981 Extended versions of most of the invited papers presented there and some additional papers on aspects which could not be included in the congress program constitute the contents of this book which intentionally received the pretentious title New Perspectives in Wood Anatomy To some readers it may seem a paradox that under this heading papers on a diversity of partly traditional wood anatomical subjects are assembled even including two with a historical emphasis However a study of the history of wood anatomy and of how students of that

discipline joined forces in an inter national association brings to light many facts and views which deserve the attention of present day and future wood scientists as a potential source of in spiration for their research and organisational work

The Geobiology and Ecology of Metasequoia Ben A. LePage, Christopher J. Williams, Hong Yang, 2005-03-30 The plant fossil record indicates that the genus Metasequoia was widely distributed throughout the Northern Hemisphere from the early Late Cretaceous to the Pliocene Pleistocene Today the genus has shrunk to one species with approximately 5 000 mature individuals in southeastern China s Xiaohu Valley This book distills the current understanding of the biology ecology and physiology of fossil and living Metasequoia current research directions and problems that remain unresolved **Systematic Botany** Bharati Bhattacharyya, 2005 Modern angiosperm taxonomy or systematics provides a strong foundation for the progress of biological sciences as it incorporates studies on biosystematics chemical and serological evidences numerical taxonomy cytogenetical and ecological evidences and many others This book accounts for information on classical and fundamental aspects of taxonomy as well as its recent developments Special attention has been paid to the chapters on origin of Angiosperms Theory of Evolution and Evolutionary trends in Angiosperm Flowers The International Code of Botanical Nomenclature Important herbaria Techniques for the preparation storage and study of herbarium specimens Botanical gardens and Taxonomic literature are discussed in detail and includes the study of some selected families belonging to 21 orders For each family general features and evidence from anatomical embryological chromosome numbers and phytochemical data have been added and evolutionary trends discussed Attention has also been drawn to economic importance and geographical distribution of these families Illustrations for some members of these families have also been added **New Frontiers in Plant-Environment Interactions** Tariq Aftab, 2023-11-26 This book provides information about plant environment studies and challenges for plant improvement to achieve food security Plants face a wide range of environmental challenges which are expected to become more intense as a result of global climate change Plant environment interactions play an important role in the functioning of ecosystems There are habitats throughout the world that present challenges to crop plants such as through a lack of water and excessive or toxic salts in the soil Soil properties represent a strong selection pressure for plant diversity and influence the structure of plant communities and participate to the generation and maintenance of biodiversity Plant communities selected by environment grow by modifying soil physical chemical and biological properties with consequent effects on survival and growth of plants The complexity of plant environment interactions has recently been studied by developing a trait based approach in which responses and effects of plants on environment were quantified and modeled This fundamental research on plant environment interaction in ecosystems is essential to transpose knowledges of functional ecology to environmental management Plants have adapted to an incredible range of environment and extensive researches on ecological and environmental plant physiology have provided mechanistic understanding of the survival distribution productivity and abundance of plant species across the

diverse climates of our planet Ecophysiological techniques have greatly advanced our understanding of photosynthesis respiration plant water relations and plant responses to abiotic and biotic stresses from instantaneous to evolutionary timescales Ecophysiological studies also provide the basis for scaling plant physiological processes from the tissue to the canopy ecosystem region and to a large extent the entire globe Given the above the author proposes to bring forth a comprehensive book New Frontiers in Plant Environment Interactions highlighting the various emerging techniques and applications that are currently being used in plant environment interaction research and its future prospects The author is sure that this book caters the need of all those who are working or have interest in the above topic Woody Plant Communities T.T. Kozlowski, 2012-12-02 Water Deficits and Plant Growth Volume VI Woody Plant Communities focuses on the water relations of woody plants in a community context Organized into eight chapters this book begins with a quantitative overview of sources of water available to woody plants Separate chapters follow that discuss the water relations of coniferous temperate hardwood and tropical and subtropical forests and woodlands apple and citrus orchards closely related woody plants and tea plantations For each of these plant communities emphasis is placed on hydrological cycles water use and transpiration absorption of water and effects of environmental factors on soil and plant water balance The effects of water deficits on physiological processes vegetative and reproductive growth yield of harvested products drought resistance and cultural practices affecting plant water balance and yield are also emphasized in this book This volume will be useful to both researchers and those involved in the practice of growing woody plants for wood and fruit crops and for esthetic values Jatropha, Challenges for a New Energy Crop Bir Bahadur, Mulpuri Sujatha, Nicolas Carels, 2012-12-14 Jatropha curcas or Physic Nut is a small tree bush plant that produces fruits under tropical climate The fruits contained seed that are 40% oil rich This oil is excellent for biodiesel The bush is a now new coming crop because it may cope with harsh environmental conditions such as semi aridity and poor land It is considered as one alternative for climate mitigation that does not compete with arable land normally dedicated to food crop and can be used to regain degraded land or fight desertification This bush has been considered seriously by the international community only recently 2006 2008 but worldwide scientists did an outstanding job to drawn Jatropha out of its semi wild status and bring it on the industrial scene Problems remains but we have now a comprehensive picture of this crop and almost every technological challenged were addressed From now the job will have to concentrate on breeding in order to domesticate this species Therefore it is the right time to sum up worldwide contributions in a comprehensive book with a breeding looking to improve the chance of this plant to stabilize as a crop and to fulfil with the expectations that humans invested in it A book with this perspective will help international community to give a step on The book will be a broad and comprehensive look on Jatropha until the details since the book is being contributed by international experts worldwide that have already published works in the international press of Science Illustrations tables geographic maps GPS location etc are added by each contributors according to the

feeling they have concerning what they think their contribution should be *An Introduction to Plant Structure and Development* Charles B. Beck, 2005-10-27 *An Introduction to Plant Structure and Development* incorporates basic knowledge of plant anatomy with contemporary information and ideas about the development of structure and form **Past Environments of Mexico** Rosalía Guerrero-Arenas, Eduardo Jiménez-Hidalgo, 2024-04-01 Mexico is a biodiverse country The dynamics of environments from Mexico played a crucial role in the history of North American biota This book analyzes the paleoenvironmental conditions using several biological groups and various methods This book also demonstrates how this information is specifically used to elucidate Mexico's past environments and habitats terrestrial freshwater and marine This book fills an existing editorial gap since much of the information is dispersed in several bibliographic sources The authors are active paleontologists in diverse Mexican universities and research centers Their research activities contribute to the knowledge of the Mexican biota through geologic time *Forest Microbiology* Fred O Asiegbu, Andriy Kovalchuk, 2021-07-09 *Forest Microbiology Volume One Tree Microbiome Phyllosphere Endosphere and Rhizosphere* places an emphasis on the microbiology of leaves needles stems roots litter and soil This comprehensive title is split into five sections including the phyllosphere microbiome endosphere rhizosphere archaea viruses in forest ecosystem and microbiota of forest nurseries and tree pests challenges and potentials Microbial communities associated with various host trees and different tree tissues are compared and generalists and specialists among tree associated microbes are identified In addition biotic and abiotic factors determining the composition and the structure of forest tree microbial communities are presented along with the concept of microbial hubs Together the book's editors have 25 years worth of experience teaching and conducting research on forest microbiology making this an essential read for any scientist interested in the forest microbiome Addresses the microbiology of living organs of forest trees including needles leaves stems and roots Highlights the potential impact of microbiota inhabiting forest trees on the health and fitness of and disease progression in forest biomes Focuses on the phyllosphere endosphere and rhizosphere forest microbiome **Botany: An Introduction to Plant Biology** James D. Mauseth, 2019-11-25 *Botany An Introduction to Plant Biology Seventh Edition* provides a modern and comprehensive overview of the fundamentals of botany while retaining the important focus of natural selection analysis of botanical phenomena and diversity **From Tools to Symbols** Francesco d'Errico, Lucinda Backwell, Bernard Malauzat, 2005-06-01 A number of researchers have tried to characterise the anatomy and behavioural systems of early hominid and early modern human populations in an attempt to understand how we became what we are Can archaeology palaeo anthropology and genetics tell us how and when human cultures developed the traits that make our societies different from those of our closest living relatives In which cases are these differences substantial and when do they simply reflect our definitions of culture species the image we have of their evolution or of ourselves *From Tools to Symbols* a collection of twenty seven selected papers from a South African French conference organised in honour of the well known palaeo anthropologist Phillip Tobias

provides a multidisciplinary overview of this field of study It is based on collaborative research conducted in sub Saharan Africa by South African French American and German scholars in the last twenty years and represents an excellent synthesis of the palaeontological and archaeological evidence of the last five million years of human evolution

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