



# Evolution Of Plant Physiology

**Hemsley**



## **Evolution Of Plant Physiology:**

**The Evolution of Plant Physiology**, 2004      *Evolution of Plant Physiology* Hemsley, 2004      **The Evolution of Plant Physiology** Alan R. Hemsley, Imogen Poole, 2004-02-05 Coupled with biomechanical data organic geochemistry and cladistic analyses utilizing abundant genetic data scientific studies are revealing new facets of how plants have evolved over time This collection of papers examines these early stages of plant physiology evolution by describing the initial physiological adaptations necessary for survival as upright structures in a dry terrestrial environment The Evolution of Plant Physiology also encompasses physiology in its broadest sense to include biochemistry histology mechanics development growth reproduction and with an emphasis on the interplay between physiology development and plant evolution Contributions from leading neo and palaeo botanists from the Linnean Society Focus on how evolution shaped photosynthesis respiration reproduction and metabolism Coverage of the effects of specific evolutionary forces variations in water and nutrient availability grazing pressure and other environmental variables      Plant Evolution Karl J. Niklas, 2016-08-12 Although plants comprise more than 90% of all visible life and land plants and algae collectively make up the most morphologically physiologically and ecologically diverse group of organisms on earth books on evolution instead tend to focus on animals This organismal bias has led to an incomplete and often erroneous understanding of evolutionary theory Because plants grow and reproduce differently than animals they have evolved differently and generally accepted evolutionary views as for example the standard models of speciation often fail to hold when applied to them Tapping such wide ranging topics as genetics gene regulatory networks phenotype mapping and multicellularity as well as paleobotany Karl J Niklas's Plant Evolution offers fresh insight into these differences Following up on his landmark book The Evolutionary Biology of Plants in which he drew on cutting edge computer simulations that used plants as models to illuminate key evolutionary theories Niklas incorporates data from more than a decade of new research in the flourishing field of molecular biology conveying not only why the study of evolution is so important but also why the study of plants is essential to our understanding of evolutionary processes Niklas shows us that investigating the intricacies of plant development the diversification of early vascular land plants and larger patterns in plant evolution is not just a botanical pursuit it is vital to our comprehension of the history of all life on this green planet      **Evolution of Plant Physiology from the Lamina Perspective** Andrés Baresch, 2022 This dissertation is focused on the evolutionary paths of plants as reflected by their photosynthetic organs The history of life on earth is also the history of primary producers and leaves are the most abundant fossil where helpful information from which plant functional diversity can be derived Photosynthetic carbon fixation involves gas exchange with the atmosphere and is accompanied by unavoidable water loss from the plant interior Understanding evolutionary innovations and trends involved in the transpiration capacity of plants becomes a tool for understanding primary productivity This work approaches diversity from a physiological perspective and more specifically focuses on physiological innovations that impact bottlenecks in the

transpiration stream The first chapter introduces the evolutionary history of vascular plants through time and tools for interpreting leaf physiology from morphology The second chapter contributes to our understanding of the relatively fixed and low transpiration capacity among most vascular plants compared to flowering plants It provides evidence of a conflict between the allocation of the lamina's vascular network transporting water to the lamina and of the gas exchange surfaces This conflict arises from a widespread and recurrent tendency for the vascular bundles to occupy a large volume of the leaf interior and a large fraction of the leaf surface This chapter proposes that lamina developmental innovations among flowering plants avoid this conflict by allowing multiple hierarchies in the venation network which enable ultimate bundles transporting water to evaporation sites without interfering with gas exchange The third chapter gathers considerable evidence showing that large laminas became common only recently with the dominance of flowering plants This work addresses the role of lamina dimensions in transpiration rates and energetic budgets and shows how the interplay of both is complex This chapter challenges previously established concepts related to environmental feedback limiting lamina dimensions and proposes developmental and structural innovations as a likely explanation of the evolution of large lamina Chapter four explores the evolution of physiological diversity directly by collecting functional traits for laminas spanning the evolutionary history of plants This chapter provides evidence for a relatively fixed evolutionary breadth for ferns shared with early seed plants radiating during the wetland expansion of the Carboniferous Physiological innovations occur among plants with seeds and coincide with the global disappearance of wetlands and the increase of well drained seasonal environments towards the Mesozoic The seed plant's physiological expansion is interpreted as allowing occupation of exposed environments but ultimately limiting maximum productivity

*Plant Development and Evolution*, 2019-01-04 Plant Development and Evolution the latest release in the Current Topics in Developmental Biology series highlights new advances in the field with this new volume presenting interesting chapters on the Evolution of the plant body plan Lateral root development and its role in evolutionary adaptation the Development of the vascular system the Development of the shoot apical meristem and phyllotaxis the Evolution of leaf diversity the Evolution of regulatory networks in land plants The role of programmed cell death in plant development the Development and evolution of inflorescence architecture the Molecular regulation of flower development the Pre meiotic another development and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Current Topics in Developmental Biology series Updated release includes the latest information on Plant Development and Evolution

*Developmental Genetics and Plant Evolution* Quentin C.B. Cronk, Richard M. Bateman, Julie A. Hawkins, 2004-01-29 A benchmark text Developmental Genetics and Plant Evolution integrates the recent revolution in the molecular developmental genetics of plants with mainstream evolutionary thought It reflects the increasing cooperation between strongly genomics influenced researchers with their strong grasp of technology and evolutionary morphogenetists and sys **The**

**Evolutionary Biology of Plants** Karl J. Niklas, 1997-06-08 Provides a comprehensive synthesis of modern evolutionary biology as it relates to plants This text recounts the saga of plant life from its origins to the radiation of the flowering plants Through computer generated walks it shows how living plants might have evolved Plant Evolutionary Developmental Biology Alessandro Minelli, 2018-03-01 Compared to animals plants have been largely neglected in evolutionary developmental biology Mainstream research has focused on developmental genetics while a rich body of knowledge in comparative morphology is still to be exploited No integrated account is available In this volume Minelli fills this gap using the same approach he gave to animals revisiting traditional concepts and providing an articulated analysis of genetic and molecular data Topics covered include leaf complexity and the evolution of flower organs handedness branching patterns flower symmetry and synorganization and less conventional topics such as fractal patterns of plant organization Also discussed is the hitherto neglected topic of the evolvability of temporal phenotypes like a plant's annual biennial or perennial life cycle flowering time and the timing of abscission of flower organs This will be informative reading for anyone in the field of plant evo devo from students to lecturers and researchers *Encyclopedia of Evolutionary Biology*, 2016-04-14

*Encyclopedia of Evolutionary Biology* Four Volume Set is the definitive go to reference in the field of evolutionary biology It provides a fully comprehensive review of the field in an easy to search structure Under the collective leadership of fifteen distinguished section editors it is comprised of articles written by leading experts in the field providing a full review of the current status of each topic The articles are up to date and fully illustrated with in text references that allow readers to easily access primary literature While all entries are authoritative and valuable to those with advanced understanding of evolutionary biology they are also intended to be accessible to both advanced undergraduate and graduate students Broad topics include the history of evolutionary biology population genetics quantitative genetics speciation life history evolution evolution of sex and mating systems evolutionary biogeography evolutionary developmental biology molecular and genome evolution coevolution phylogenetic methods microbial evolution diversification of plants and fungi diversification of animals and applied evolution Presents fully comprehensive content allowing easy access to fundamental information and links to primary research Contains concise articles by leading experts in the field that ensures current coverage of each topic Provides ancillary learning tools like tables illustrations and multimedia features to assist with the comprehension process

*Annual Plant Reviews, The Evolution of Plant Form* Barbara A. Ambrose, Michael D. Purugganan, 2012-11-21 The *Evolution of Plant Form* is an exceptional new volume in Wiley Blackwell's highly successful and well established *Annual Plant Reviews* Written by recognised and respected researchers this book delivers a comprehensive guide to the diverse range of scientific perspectives in land plant evolution from morphological evolution to the studies of the mechanisms of evolutionary change and the tools with which they can be studied This title distinguishes itself from others in plant evolution through its synthesis of these ideas which then provides a framework for future studies and exciting new developments in

this field The first chapter explores the origins of the major morphological innovations in land plants and the following chapters provide an exciting in depth analysis of the morphological evolution of land plant groups including bryophytes lycophytes ferns gymnosperms and angiosperms The second half of the book focuses on evolutionary studies in land plants including genomics adaptation development and phenotypic plasticity The final chapter provides a summary and perspective for future studies in the evolution of plant form The Evolution of Plant Form provides essential information for plant scientists and evolutionary biologists All libraries and research establishments where biological and agricultural sciences are studied and taught will find this important work a vital addition to their shelves **Evolutionary Biology** Mitchell B.

Cruzan,2018-09-11 Many of the characteristics that distinguish plants from other living organisms can be traced to their origin early in the history of life Features such as a multicellular haploid life stage prevalent hermaphroditism self fertilization and general dependence on biotic and abiotic vectors for reproduction stem directly from the ability of plants to obtain energy from the sun This novel mode of energy capture had far ranging implications for plant evolution It not only fueled the tremendous diversification of life on Earth but also had far ranging implications for the evolution of early photosynthetic organisms and eventually land plants Understanding the evolutionary processes for the proliferation and diversification of plants requires an appreciation of their unique biological features While the processes of mutation selection genetic drift and gene flow are the same for both plants and animals there are specific characteristics of plants that affect their evolution Unique traits of plants affect everything from the fate of mutations to exposure to selection in the haploid life stage to the distribution of genetic variation within and among populations and ultimately the rates and patterns of diversification This book examines the origins of the unique features of plants and the implications of these features for evolutionary processes Author Mitchell B Cruzan provides discussion of contemporary topics such as population genetics phylogeography phylogenetics ecological genetics and genomics The content covered is essential to a wide range of advanced courses in plant biology **Plant Cell Walls** Anja Geitmann,2023-12-22 Plant cell walls have been relevant for

human survival throughout evolution from cell walls recognised as an essential ingredient in human and livestock nutrition to their use in energy generation construction tool making paper and clothing This plant generated material is at the centre of a myriad of human activities and it represents the world s most abundant natural resource for fuel fibre food and fodder Plant Cell Walls Research Milestones and Conceptual Insights provides an overview of the key discoveries of hundreds of years of plant cell wall research With chapter contributions from prominent scientists in the cell wall field this book provides a comprehensive treatment of plant cell wall research accompanied by a historical overview to illustrate how concepts have evolved and how progress has been enabled by emerging technological advances Plant Cell Walls Research Milestones and Conceptual Insights elaborates on the translation of research to application in biotechnology and agriculture and highlights its relevance for climate change mitigation and adaptation It will be a key resource for plant cell biologists biochemists and

geneticists      **Plant Biology** Francis Cavers, 1907      **The Evolution of Naval Armament** Frederick Leslie Robertson, 1921      Charting New Pathways to C4 Rice J. E. Sheehy, Peter L. Mitchell, Bill Hardy, 2007 Setting the science C4 rice from theory to practice Single cell c4 systems The background and how C4 rice can be delivered Setting up the consortium      A Textbook of Plant Biology William Neilson-Jones, Mabel Cheveley Rayner, 1920      *Documenting Domestication* Melinda A. Zeder, Daniel Bradley, Eve Emshwiller, Bruce D. Smith, 2006-06-20 Agriculture is the lever with which humans transformed the earth over the last 10 000 years and created new forms of plant and animal species that have forever altered the face of the planet In the last decade significant technological and methodological advances in both molecular biology and archaeology have revolutionized the study of plant and animal domestication and are reshaping our understanding of the transition from foraging to farming one of the major turning points in human history This groundbreaking volume for the first time brings together leading archaeologists and biologists working on the domestication of both plants and animals to consider a wide variety of archaeological and genetic approaches to tracing the origin and dispersal of domesticates It provides a comprehensive overview of the state of the art in this quickly changing field as well as reviews of recent findings on specific crop and livestock species in the Americas Eurasia and Africa Offering a unique global perspective it explores common challenges and potential avenues for future progress in documenting domestication

Photosynthesis: Physiology and Metabolism Richard C. Leegood, Thomas D. Sharkey, Susanne von Caemmerer, 2006-04-11 Photosynthesis Physiology and Metabolism is the we have concentrated on the acquisition and ninth volume in the series Advances in Photosynthesis metabolism of carbon However a full understanding Series Editor Govindjee Several volumes in this of reactions involved in the conversion of to series have dealt with molecular and biophysical sugars requires an integrated view of metabolism aspects of photosynthesis in the bacteria algae and We have therefore commissioned international cyanobacteria focussing largely on what have been authorities to write chapters on for example traditionally though inaccurately termed the light interactions between carbon and nitrogen metabolism reactions Volume 1 The Molecular Biology of on respiration in photosynthetic tissues and on the Cyanobacteria Volume 2 Anoxygenic Photosynthetic control of gene expression by metabolism Photo Bacteria Volume 3 Biophysical Techniques in synthetic carbon assimilation is also one of the most Photosynthesis and Volume 7 The Molecular Biology rapid metabolic processes that occurs in plant cells of the Chloroplasts and Mitochondria in Chlamy and therefore has to be considered in relation to domonas Volume 4 dealt with Oxygenic Photo transport whether it be the initial uptake of carbon synthesis The Light Reactions and volume 5 with intracellular transport between organelles inter Photosynthesis and the Environment whereas the cellular transport as occurs in plants or transport structure and function of lipids in photosynthesis of photosynthates through and out of the leaf All was covered in Volume 6 of this series Lipids in these aspects of transport are also covered in the Photosynthesis Structure Function and Genetics book      *Evolution of Gene Regulatory Networks in Plant Development* Federico

Valverde, Andrew Groover, José M. Romero, 2018-02-15 During their life cycle plants undergo a wide variety of morphological and developmental changes Impinging these developmental processes there is a layer of gene protein and metabolic networks that are responsible for the initiation of the correct developmental transitions at the right time of the year to ensure plant life success New omic technologies are allowing the acquisition of massive amount of data to develop holistic and integrative analysis to understand complex processes Among them Microarray Next generation Sequencing NGS and Proteomics are providing enormous amount of data from different plant species and developmental stages thus allowing the analysis of gene networks globally Besides the comparison of molecular networks from different species is providing information on their evolutionary history shedding light on the origin of many key genes proteins Moreover developmental processes are not only genetically programmed but are also affected by internal and external signals Metabolism light hormone action temperature biotic and abiotic stresses etc have a deep effect on developmental programs The interface and interplay between these internal and external circuits with developmental programs can be unraveled through the integration of systematic experimentation with the computational analysis of the generated omics data Molecular Systems Biology This Research Topic intends to deepen in the different plant developmental pathways and how the corresponding gene networks evolved from a Molecular Systems Biology perspective Global approaches for photoperiod circadian clock and hormone regulated processes pattern formation phase transitions organ development etc will provide new insights on how plant complexity was built during evolution Understanding the interface and interplay between different regulatory networks will also provide fundamental information on plant biology and focus on those traits that may be important for next generation agriculture



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