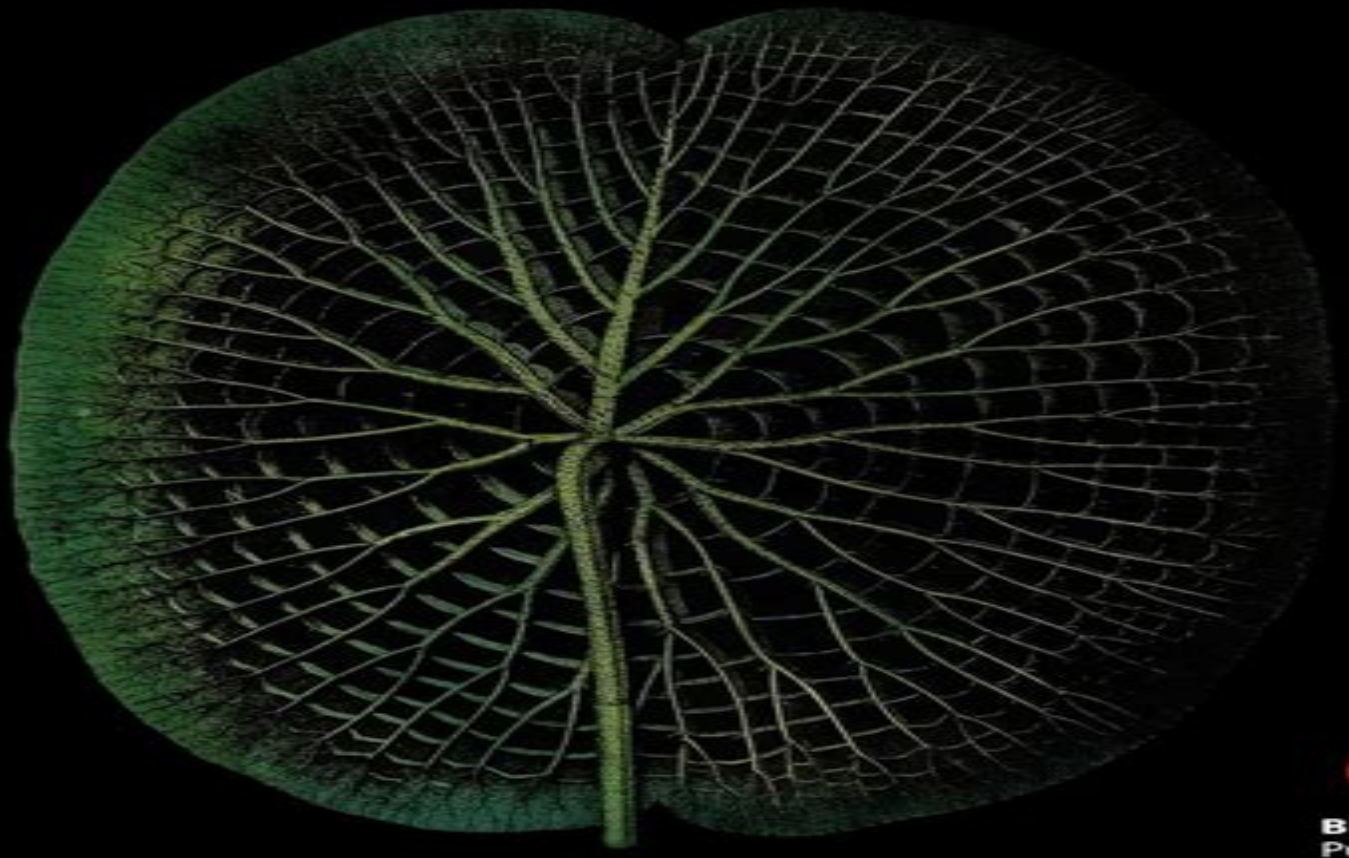
PLANT ARCHITECTURE AND ITS MANIPULATION

Annual Plant Reviews, Volume 17



Edited by Colin G.N. Turnbull

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Plant Architecture And Its Manipulation

Colin G. N. Turnbull

Plant Architecture And Its Manipulation:

Plant Architecture and Its Manipulation Colin G. N. Turnbull,2005 Development regulation genetic molecular

Annual Plant Reviews, Plant Architecture and its Manipulation Colin G. N. Turnbull,2009-02-05 Annual Plant Reviews Volume 17 Conventionally architecture relates to buildings embracing both art and science and specifying both form and function In scope this closely matches the study of plant architecture From an artistic perspective we might marvel at the astonishing diversity of aesthetically pleasing plant structures yet as scientists we know that through natural selection very little of form is dissociated from function The origins of studies of plant architecture and their influences on human existence are steeped in history but from a twenty first century perspective the field has been transformed from a discipline of observation and description into one in which complex networks of genetic chemical and environmental factors can be directly manipulated and modelled Arguably manipulation of plant architecture has been one of the greatest mainstays of plant improvement perhaps second only to the discoveries of the nutritional requirements of plants With the advent of the gene revolution there are countless new opportunities for selective modification of plant architecture This book provides a broad coverage of our current understanding of plant architecture and its manipulation ranging from the architecture of the individual cell to that of the whole plant It is directed at researchers and professionals in plant physiology developmental biology molecular biology genetics and biotechnology Annual Plant Reviews, Plant Nuclear Structure, Genome Architecture and Gene Regulation David Evans,Katja Graumann,John A. Bryant,2013-03-27 This timely volume brings together expert reviews of the recent significant advances in our knowledge and understanding of the organisation of the higher plant nucleus and in particular in the relationship between nuclear organisation and the regulation of gene expression Rapid progress has been made in a number of key areas over the last five years including description and characterization of proteins of the nuclear envelope and nuclear pore complex novel insights into nucleoskeletal structures as well as developments related to chromatin organization function and gene expression These advances open the way for new research into areas such as stress tolerance plant pathogen interactions and ultimately crop improvement and food security Continued research into plant nuclear structure genome architecture and gene regulation also enriches our understanding of the origin and evolution of the nucleus and its envelope Edited by world class researchers in plant cell biology and comprising contributions from internationally renowned academics this latest volume in the prestigious Annual Plant Reviews series brings together a wealth of knowledge in the burgeoning field of plant nuclear structure and genetics Annual Plant Reviews Volume 46 Plant Nuclear Structure Genome Architecture and Gene Regulation is a vital resource for advanced students researchers and professionals in plant science and related disciplines Libraries in all research establishments where plant science biochemistry molecular biology genetics and genomics and agricultural science are taught and studied will find this excellent volume an essential addition to their shelf *Annual Plant Reviews, Plant Hormone Signaling* Peter

Hedden,Stephen G. Thomas,2008-04-15 Plant growth is regulated by developmental programmes that can be modified by environmental cues acting through endogenous signaling molecules including plant hormones This volume provides an overview of the biosynthesis catabolism perception and signal transduction of the individual hormone classes followed by chapters on hormone distribution and transport and the roles of hormone signaling in specific developmental processes Particular attention is paid to the regulation of hormone signaling by environmental and developmental cues sites of hormone metabolism and action and interactions between hormone signaling pathways The book is directed at researchers and professionals in plant biochemistry and molecular biology **Annual Plant Reviews, Functions and Biotechnology of Plant Secondary Metabolites** Michael Wink,2010-01-26 This important volume commences with an overview of the modes of action of defensive secondary metabolites followed by detailed surveys of chemical defense in marine ecosystems the biochemistry of induced defense plant microbe interactions and medical applications A chapter is also included covering biotechnological aspects of producing valuable secondary metabolites in plant cell and organ cultures This is a comprehensive and fully updated new edition edited by Professor Michael Wink and including contributions from many internationally acknowledged experts in the field **Annual Plant Reviews, Biology of Plant Metabolomics** Robert D. Hall,2011-02-25 Biology of Plant Metabolomics is an exciting new volume in Wiley Blackwell s highly successful Annual Plant Reviews series Concentrating on the biology and biological relevance of plant metabolomics each chapter written by internationally acknowledged experts in the field from at least two different research groups combines a review of the existing biological results with an extended assessment of possible future developments and the impact that these will have on the type of research needed for the future Following a general introduction this exciting volume includes details of metabolomics of model species including Arabidopsis and tomato Further chapters provide in depth coverage of abiotic stress data integration systems biology genetics genomics chemometrics and biostatisitcs Applications of plant metabolomics in food science plant ecology and physiology are also comprehensively covered Biology of Plant Metabolomics provides cutting edge reviews of many major aspects of this new and exciting subject It is an essential purchase for plant scientists plant geneticists and physiologists All libraries in universities and research establishments where biological sciences are studied and taught should have a copy of this Annual Plant Reviews volume on their shelves **Annual Plant Reviews, Biology of the Plant Cuticle** Markus Riederer,Caroline Muller,2008-04-15 Annual Plant Reviews Volume 23 A much clearer picture is now emerging of the fine structure of the plant cuticle and its surface the composition of cuticular waxes and the biosynthetic pathways leading to them Studies assessing the impact of UV radiation on plant life have emphasized the role of the cuticle and underlying epidermis as optical filters for solar radiation The field concerned with the diffusive transport of lipophilic organic non electrolytes across the plant cuticle has reached a state of maturity A new paradigm has recently been proposed for the diffusion of polar compounds and water across the cuticle In the context of plant ecophysiology cuticular

transpiration can now be placed in the perspective of whole leaf water relations New and unexpected roles have been assigned to the cuticle in plant development and pollen stigma interactions Finally much progress has been made in understanding the cuticle as a specific and extraordinary substrate for the interactions of the plant with microorganisms fungi and insects This volume details the major developments of recent years in this important interdisciplinary area It is directed at researchers and professionals in plant biochemistry plant physiology plant ecology phytopathology and environmental microbiology in both the academic and industrial sectors **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 *Annual Plant Reviews, Senescence Processes in Plants* Susheng Gan,2008-04-15 The scientific and economic significance of plant senescence means that much effort has been made to understand the processes involved and to devise means of manipulating them agriculturally During the past few years there has been considerable progress in this regard especially in the molecular genetic and genomic aspects Senescence has a tremendous impact on agriculture For example leaf senescence limits crop yield and biomass production and contributes substantially to postharvest loss in vegetable and ornamental crops during transportation storage and on shelves In addition proteins antioxidants and other nutritional compounds are degraded during senescence Senescing tissues also become more susceptible to pathogen infection and some of the pathogens may produce toxins rendering food unsafe Mitotic senescence may also determine sizes of leaves fruits and whole plants This volume summarizes recent progresses in the physiology biochemistry cell biology molecular biology genomics proteomics and biotechnology of plant senescence Beginning with a chapter on senescence related terminology and our current knowledge of mitotic senescence in plants a less well studied area the book focuses on post mitotic senescence and includes chapters addressing the senescence of leaves flowers and

fruits Later chapters examine the development of various new biotechnologies for manipulating the senescence processes of fruit and leaves some of which are approaching commercialization The book is directed at researchers and professionals in plant molecular genetics physiology and biochemistry Annual Plant Reviews, Molecular Aspects of Plant Disease Resistance Jane Parker,2009-01-28 Annual Plant Reviews Volume 34 Molecular Aspects of Plant Disease Resistance Edited by Jane Parker In recent years our understanding of the mechanisms involved in plant resistance to disease has seen major advances This important new volume in Wiley Blackwell s Annual Plant Reviews provides cutting edge reviews on major aspects of plant immunity from many of the world s leading researchers in the area Coverage includes Establishment of disease by microbial pathogens Genomic approaches to understanding host pathogen interactions Local and systemic resistance signalling Activities of small bioactive molecules Plant insect ecology This exciting volume is essential reading for all those studying plant pathogen interactions including plant and agricultural scientists molecular biologists geneticists and microbiologists Libraries in all universities and research establishments where biological and agricultural sciences are studied and taught should have copies of this important volume on their shelves About the Editor Dr Jane Parker is a Group Leader in the Department of Plant Microbe Interactions at The Max Planck Institute of Plant Breeding Research Cologne and Associate Professor at The Institute of Genetics University of Cologne Germany Also Available Annual Plant Reviews Volume 33 Intracellular Signaling in Plants Edited by Zhenbiao Yang Print 9781405160025 Annual Plant Reviews Volume 32 Cell Cycle Control and Plant Development Edited by Dirk Inz Print 9781405150439 Online 9780470988923 Annual Plant Reviews Volume 31 Plant Mitochondria Edited by David Logan Print 9781405149396 Online 9780470986592 Annual Plant Reviews Volume 30 Light and Plant Development Edited by Garry C Whitelam and Karen J Halliday Print 9781405145381 Online 9780470988893 Annual Plant Reviews, Intracellular Signaling in Plants Zhenbiao Yang,2009-01-22 Annual Plant Reviews Volume 33 Intracellular Signaling in Plants An intriguing and important question in our understanding of plantdevelopmental programming and responses to the environment is whatkinds of strategies and mechanisms plant cells use for thetransmission and the integration of various developmental andenvironmental signals This book provides insight into thisfundamental question in plant biology Intracellular Signaling in Plants is an excellent new addition tothe increasingly well known and respected Annual Plant Reviews andoffers the reader Chapters prepared by an esteemed team of internationalauthors A consistent and well illustrated approach to the subjectmatter An invaluable resource for all researchers and professionals inplant biochemistry and biology This important volume also deals with major known signalingmechanisms and several representative intracellular signalingnetworks in plants integrating comprehensive reviews and insightsfrom leading experts in the field Libraries in all universities and research establishments wherebiological sciences are studied and taught should have copies ofthis essential work on their shelves Also Available from Wiley Blackwell Annual Plant Reviews Volume 32 Cell Cycle Control and Plant Development Edited by Dirk Inz Print 9781405150439 Online

9780470988923 DOI 10 1002 9780470988923 Annual Plant Reviews Volume 31 Plant Mitochondria Edited by David Logan Print 9781405149396 Online 9780470986592 DOI 10 1002 9780470986592 Annual Plant Reviews, The Plant Hormone Ethylene Michael T. McManus,2012-04-23 The plant hormone ethylene is one of the most important being one of the first chemicals to be determined as a naturally occurring growth regulator and influencer of plant development It was also the first hormone for which significant evidence was found for the presence of receptors This important new volume in Annual Plant Reviews is broadly divided into three parts The first part covers the biosynthesis of ethylene and includes chapters on S adenosylmethionine and the formation and fate of ACC in plant cells The second part of the volume covers ethylene signaling including the perception of ethylene by plant cells CTR proteins MAP kinases and EIN2 EIN3 The final part covers the control by ethylene of cell function and development including seed development germination plant growth cell separation fruit ripening senescent processes and plant pathogen interactions The Plant Hormone Ethylene is an extremely valuable addition to Wiley Blackwell s Annual Plant Reviews With contributions from many of the world s leading researchers in ethylene and edited by Professor Michael McManus of Massey University this volume will be of great use and interest to a wide range of plant scientists biochemists and chemists All universities and research establishments where plant sciences biochemistry chemistry life sciences and agriculture are studied and taught should have access to this important volume

Translating Physiological Tools to Augment Crop Breeding Mamrutha Harohalli Masthigowda,Krishnappa Gopalareddy,Rinki Khobra,Gyanendra Singh,Gyanendra Pratap Singh,2023-04-19 This book covers different physiological processes tools and their application in crop breeding Each chapter emphasizes on a specific trait physiological process and its importance in crop their phenotyping information and how best it can be employed for crop improvement by projecting on success stories in different crops It covers wide range of physiological topics including advances in field phenotyping role of endophytic fungi metabolomics application of stable isotopes high throughput phenomics transpiration efficiency root phenotyping and root exudates for improved resource use efficiency cuticular wax and its application advances in photosynthetic studies leaf spectral reflectance and physiological breeding in hardy crops like millets This book also covers the futuristic research areas like artificial intelligence and machine learning This contributed volume compiles all application parts of physiological tools along with their advanced research in these areas which is very much need of the hour for both academics and researchers for ready reference This book will be of interest to teachers researchers climate change scientists capacity builders and policy makers Also the book serves as additional reading material for undergraduate and graduate students of agriculture physiology botany ecology and environmental sciences National and international agricultural scientists will also find this a useful resource **Annual Plant Reviews, Plant Systems Biology** Gloria Coruzzi,Rodrigo Gutiérrez,2009-05-06 Plant Systems Biology is an excellent new addition to theincreasingly well known and respected Annual Plant Reviews Split into two parts this title offers the reader A fundamental conceptual framework for Systems

Biologyincluding Network Theory The progress achieved for diverse model organisms Prokaryotes C elegans and Arabidopsis The diverse sources of omic information necessaryfor a systems understanding of plants Insights into the software tools developed for systemsbiology Interesting case studies regarding applications includingnitrogen use flowering time and root development Ecological and evolutionary considerations regarding livingsystems This volume captures the cutting edge of systems biologyresearch and aims to be an introductory material for undergraduateand graduate students as well as plant and agricultural scientists molecular biologists geneticists and microbiologists It alsoserves as a foundation in the biological aspects of the field forinterested computer scientists Libraries in all universities andresearch establishments where biological and agricultural sciencesare studied and taught and integrated with Computer Sciences shouldhave copies of this important volume on their shelves *Annual Plant Reviews, Endogenous Plant Rhythms* Anthony J. W. Hall,Harriet G. McWatters,2008-04-15 Our knowledge of the circadian clock in plants has advancedconsiderably in recent years and we now have a clearer view of thebiochemical processes making up its mechanism Recent work providesinsight into the central role played by the circadian system in theregulation of many aspects of metabolism The multiple systemsinvolved in photoreception have been determined leading to anunderstanding of how light entrains the internal biological clockto the natural cycle of day and night and how this impacts on keyevents in the plant lifecycle such as the photoperiodic regulationof flowering This book provides a contemporary overview of endogenous plantrhythms for researchers and professionals in the plant sciences Itwill also serve as a valuable source of reference for the widercircadian community **Annual Plant Reviews, Plant Polysaccharides** Peter Ulvskov,2010-11-18 Plant Polysaccharides an exceptional new volume in Wiley Blackwell s successful Annual Plant Reviews series covers the polysaccharides and proteins that form the fundamental architecture of the plant cell wall and the genes that encode the cellular machinery that synthesizes them The volume focuses on the evolution of the many families of genes whose products are required to make a particular kind of polysaccharide bringing attention to the specific biochemical properties of the proteins to the level of kinds of sugar linkages they make Beautifully illustrated in full colour throughout this exceptional new volume provides cutting edge up to date information on such important topics as cell wall biology composition and biosynthesis glycosyltransferases hydroxyproline rich glycoproteins enzymatic modification of plant cell wall polysaccharides glycan engineering in transgenic plants and polysaccharide nanobiotechnology Drawing together some of the world s leading experts in these areas the editor Peter Ulvskov has provided a landmark volume that is essential reading for plant and crop scientists biochemists molecular biologists and geneticists All libraries in universities and research establishments where plant sciences agriculture biological biochemical and molecular sciences are studied and taught should have copies of this important volume **Annual Plant Reviews, Plant Epigenetics** Peter Meyer,2008-04-15 With the discovery of RNAi pathways and the histone code epigenetics has become a popular and fast evolving research topic Plant science has made a number of elementary contributions to this

field and the common elements of epigenetic systems have linked research groups interested in plant fungal and animal systems This volume provides a comprehensive overview epigenetic mechanisms and biological processes in plants illustrating the wider relevance of this research to work in other plant science areas and on non plant systems It discusses recent advances in our knowledge of basic mechanisms and molecular components that control transcriptional and post transcriptional silencing an understanding of which is essential for plant researchers who use transgenic lines for stable expression of a recombinant construct or for targeted inactivation of an endogenous gene These aspects should be of special interest to the agricultural industry The volume illustrates the relevance of epigenetic control systems to gene regulation and plant development examining paramutation genomic imprinting and microRNA based gene regulation mechanisms Finally it demonstrates the significance of epigenetic systems to viral defence and genome organisation The volume is directed at researchers and professionals in plant molecular genetics plant biochemistry and plant developmental biology *Annual Plant Reviews, Cell Cycle Control and Plant Development* Dirk Inzé,2008-04-15 The cell cycle in plants consists of an ordered set of events including DNA replication and mitosis that culminates in cell division As cell division is a fundamental part of a plant s existence and the basis for tissue repair development and growth a full understanding of all aspects of this process is of pivotal importance Cell Cycle Control and Plant Development commences with an introductory chapter and is broadly divided into two parts Part 1 details the basic cell machinery with chapters covering cyclin dependent kinases CDKs cyclins CDK inhibitors proteolysis CDK phosphorylation and E2F DP transcription factors Part 2 which describes the cell cycle and plant development covers cell cycle activation cell cycle control during leaf development endoreduplication the cell cycle and trichome fruit and endosperm development the hormonal control of cell division and environmental stress and cell cycle exit The editor of this important book Professor Dirk Inz well known and respected internationally has brought together an impressive team of contributing authors providing an excellent new volume in Blackwell Publishing s Annual Plant Reviews Series The book is an essential purchase for research teams working in the areas of plant sciences and molecular cell and developmental biology All libraries in universities and research establishments where biological sciences are studied and taught should have copies of this essential and timely volume **Alpine and Polar Treelines in a Changing Environment** Gerhard Wieser,2020-04-09 Concerns have been raised with respect to the state of high altitude and high latitude treelines as they are anticipated to undergo considerable modifications due to global changes and especially due to climate warming As high elevation treelines are temperature limited vegetation boundaries they are considered to be sensitive to climate warming As a consequence in this future warmer environment an upward migration of treelines is expected because low air and root zone temperatures constrain their regeneration and growth Despite the ubiquity of climate warming treeline advancement is not a worldwide phenomenon some treelines have been advancing rapidly others have responded sluggishly or have remained stable This variation in responses is attributed to the potential interaction of a

continuum of site related factors that may lead to the occurrence of locally conditioned temperature patterns Competition amongst species and below ground resources have been suggested as additional factors explaining the variability in the movement of treelines This Special Issue book is dedicated to the discussion of treeline responses to changing environmental conditions in different areas around the globe *Annual Plant Reviews, Light and Plant Development* Garry C. Whitelam,Karen J. Halliday,2008-04-15 Living organisms are subject to fluctuating environmental conditions Whereas most animals are able to move away from unfavourable conditions plants are sessile and so must cope with whatever comes their way Of all the environmental cues that challenge the developing plant light can probably be considered to be the most important In addition to its key role in plant metabolism and hence almost all life on Earth where it drives the process of photosynthesis light energy also acts to regulate plant growth and development Light quantity quality direction and diurnal and seasonal duration regulate processes from germination through seedling establishment to the architecture of the mature plant and the transition to reproductive development These developmental responses of plants to light constitute photomorphogenesis This volume is designed to provide the reader with state of the art accounts of our current knowledge of the major classes of higher plant regulatory photoreceptors and the signal transduction networks that comprise plant developmental photobiology Consideration is also given to the ways in which knowledge of plant photoreceptors and their signalling networks can be exploited for instance to improve the quality and productivity of commercially grown plants The book is directed at researchers and professionals working in plant molecular biology plant physiology and plant biochemistry

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