

PLANT CELL  
MONOGRAPHS

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(Eds.)



# Plant Endocytosis



Springer

# Plant Endocytosis 1 Plant Cell Monographs

**Jozef Šamaj, František Baluška, Diedrik  
Menzel**



## **Plant Endocytosis 1 Plant Cell Monographs:**

**Plant Endocytosis Plant Cell Monographs 1** Sanaj J., Baluska F., Menzel D., 2006 **Signaling in Plants** František Baluška, Stefano Mancuso, 2009-02-27 This is the first comprehensive monograph on all emerging topics in plant signaling. The book addresses diverse aspects of signaling at all levels of plant organization. Emphasis is placed on the integrative aspects of signaling. *Applied Plant Cell Biology* Peter Nick, Zdeněk Opatrný, 2014-01-23 The aim of this volume is to merge classical concepts of plant cell biology with the recent findings of molecular studies and real world applications in a form attractive not only to specialists in the realm of fundamental research but also to breeders and plant producers. Four sections deal with the control of development, the control of stress tolerance, the control of metabolic activity and novel additions to the toolbox of modern plant cell biology in an exemplary and comprehensive manner and are targeted at a broad professional community. It serves as a clear example that a sustainable solution to the problems of food security must be firmly rooted in modern continuously self-re-evaluating cell biological research. No green biotech without green cell biology. As advances in modern medicine are based on extensive knowledge of animal molecular cell biology, we need to understand the hidden laws of plant cells in order to handle crops, vegetables and forest trees. We need to exploit not only empirically their astounding developmental, physiological and metabolic plasticity which allows plants to cope with environmental challenges and to restore flexible but robust self-organisation. *The Plant Endoplasmic Reticulum* David G. Robinson, 2006-08-15 The endoplasmic reticulum (ER) called the mother of all membranes is spotlighted in this timely new book. The work presented here is especially exciting since GFP technology has provided new ways of looking at the dynamics of the ER and its relationship to other organelles, particularly the Golgi apparatus and peroxisomes. This book provides in-depth knowledge of the ER and the diverse roles it plays. **Toxic Plant Proteins** J. Michael Lord, Martin R. Hartley, 2010-07-20 Many plants produce enzymes collectively known as ribosome inactivating proteins (RIPs). RIPs catalyze the removal of an adenine residue from a conserved loop in the large ribosomal RNA. The adenine residue removed by this depurination is crucial for the binding of elongation factors. Ribosomes modified in this way are no longer able to carry out protein synthesis. Most RIPs exist as single polypeptides. Type 1 RIPs which are largely non-toxic to mammalian cells because they are unable to enter them and thus cannot reach their ribosomal substrate. In some instances, however, the RIP forms part of a heterodimer where its partner polypeptide is a lectin. Type 2 RIPs. These heterodimeric RIPs are able to bind to and enter mammalian cells. Their ability to reach and modify ribosomes in target cells means these proteins are some of the most potently cytotoxic poisons found in nature and are widely assumed to play a protective role as part of the host plant's defenses. RIPs are able to further damage target cells by inducing apoptosis. In addition, certain plants produce lectins lacking an RIP component but which are also cytotoxic. This book focuses on the structure, function and some potential applications of these toxic plant proteins.

**Cell Division Control in Plants** Desh Pal S. Verma, Zonglie Hong, 2007-11-23 This volume examines the molecular basis

of all aspects of cell division and cytokinesis in plants It features 19 chapters contributed by world experts in the specific research fields providing the most comprehensive and up to date knowledge on cell division control in plants The editors are veterans in the field of plant molecular biology and highly respected worldwide **Plant Growth Signaling** Laszlo Bögre, Gerrit Beemster, 2008-05-15 Plant growth is of great economical and intellectual interest Plants are the basis of our living environment the production of our food and a myriad of plant based natural products Plant bio mass is also becoming an important renewable energy resource Agricultural plant cultivation and breeding programs have altered plant productivity and yield parameters extensively yet the principles and underlying mechanisms are not well understood At the cellular level growth is the result of only two processes cell division and cell expansion but these two processes are controlled by intertwined signaling cascades and regulatory mechanisms forming complex regulatory networks Ultimately this network is what plant scientists are trying to unravel The sequencing of model and agronomically important plant genomes allows complete insight into the molecular components involved in each process Methods to quantify the molecular changes image growth processes and reconstruct growth regulatory networks are rapidly developing This knowledge should help to elucidate key regulators and to design methods to engineer plant architecture and growth parameters for future human needs This volume gives a comprehensive overview of what is known about plant growth regulation and growth restraints due to environmental conditions and should allow readers at all levels an entry into this exiting field of research

Plant Microtubules Peter Nick, 2008-04-10 Since the publication of the first edition of Plant Microtubules in 2000 our understanding of microtubules and their manifold functions have advanced substantially This revised edition highlights the morphogenetic potential of plant microtubules from three general viewpoints Microtubules and Morphogenesis Microtubules and Environment Microtubules and Evolution The book is an invaluable source of information for researchers as well as for graduate and advanced students Plant Cell Walls Peter Albersheim, Alan Darvill, Keith Roberts, Ron Sederoff, Andrew Staehelin, 2010-04-15 Plant cell walls are complex dynamic cellular structures essential for plant growth development physiology and adaptation Plant Cell Walls provides an in depth and diverse view of the microanatomy biosynthesis and molecular physiology of these cellular structures both in the life of the plant and in their use for bioproducts and biofuels Plant Cell Walls is a textbook for upper level undergraduates and graduate students as well as a professional level reference book Over 400 drawings micrographs and photographs provide visual insight into the latest research as well as the uses of plant cell walls in everyday life and their applications in biotechnology Illustrated panels concisely review research methods and tools a list of key terms is given at the end of each chapter and extensive references organized by concept headings provide readers with guidance for entry into plant cell wall literature Cell wall material is of considerable importance to the biofuel food timber and pulp and paper industries as well as being a major focus of research in plant growth and sustainability that are of central interest in present day agriculture and biotechnology The production and use of plants for

biofuel and bioproducts in a time of need for responsible global carbon use requires a deep understanding of the fundamental biology of plants and their cell walls. Such an understanding will lead to improved plant processes and materials and help provide a sustainable resource for meeting the future bioenergy and bioproduct needs of humankind. *Cell Biology of Plant Nematode Parasitism* R. Howard Berg, Chris Taylor, 2008-12-18 Plant parasitic nematodes are among the most destructive plant pathogens causing enormous losses to agronomic crops worldwide. This book provides an up to date review of research related to two of the most important nematode pests root knot and cyst nematodes. Chapters cover early plant nematode interactions, identification of nematode proteins important in the establishment of nematode feeding sites and classification of biochemical and signaling pathways significant in the development of specialized feeding sites in the host. The cellular and subcellular structures essential for the parasitic interaction are examined by light and electron microscopy. Modern techniques of gene expression analyses and genomic sequencing are poised to provide an even greater wealth of information to researchers enabling them to develop and examine natural and manmade mechanisms of resistance to this important plant pest. *The Plant Vacuole*, 1997-05-06 *Advances in Botanical Research* is a multi volume publication that brings together reviews by recognized experts on subjects of importance to those involved in botanical research. For more than thirty years *Advances in Botanical Research* has earned a reputation for excellence in the field. For those working on plant pathology *Advances in Plant Pathology* has also carved a niche in the plant sciences during its decade of publication. Academic Press has merged *Advances in Plant Pathology* into *Advances in Botanical Research*. The plant science community will find that the merger of these two serials will provide one comprehensive resource for the field. To ensure complete coverage John Andrews and Inez Tommerup the editors of *Advances in Plant Pathology* have joined the editorial board of the new series which will include equal coverage of plant pathology and botany in both thematic and mixed volumes. The first few volumes of the new series will be slanted toward botany or plant pathology however future eclectic volumes will be fully integrated. The resulting synergy of these two serials greatly benefits the plant science community by providing a more comprehensive resource under one roof. The joint aim is to continue to include the very best articles thereby maintaining the status of a high impact factor review series.

**Nitric Oxide in Plant Growth, Development and Stress Physiology** Lorenzo Lamattina, Joe C. Polacco, 2007-01-30 Recent advances in the study of nitric oxide NO biology, biochemistry, molecular biology and physiology in plants are presented in this book providing an overview of current understanding of the NO actions involved in adaptive responses of plant fitness to environmental constraints. The special emphasis is on NO dependent signalling, molecular adjustments and targets as key elements in plant growth, development and stress physiology. The first part of the book is devoted to the description of key features related to NO biochemistry, synthesis and metabolism and the modes of action involved. The second part covers the functionality of NO in three central nodes of the plant life cycle: growth, development and stress physiology. Finally, a detailed analysis of the advantages and disadvantages of the use of fluorometric detection of NO

in plant research brings to light information necessary for understanding the limitations of the method

**Chemistry, Biochemistry, and Biology of 1-3 Beta Glucans and Related Polysaccharides** Antony Bacic, Geoffrey B. Fincher, Bruce A. Stone, 2009-07-07 Chemistry Biochemistry and Biology of 1 3 Beta Glucans and Related Polysaccharides presents a comprehensive systematic and authoritative survey of information about a family of chemically related but functionally diverse naturally occurring polysaccharides the 1 3 glucans International contributors describe the chemical and physicochemical properties of these glucans and their derivatives and the molecular biological and structural aspects of the enzymes involved in their formation and breakdown A detailed analysis of their physiological roles in the various biological situations in which they are found will be provided Additionally evolutionary relationships among the family of these glucans will be described Topics of medical relevance include detailing the glucans interactions with the immune system and research for cancer therapy applications Web resource links allow scientists to explore additional beta glucan research Separate indexes divided into Species and Subject for enhanced searchability

**Viral Transport in Plants** Elisabeth Waigmann, Manfred Heinlein, 2007-03-24 Intercellular communication in plants plays pivotal roles in coordination and control of development and defence responses and involves the trafficking of RNA and protein macromolecules through cytoplasmic cell wall channels termed plasmodesmata Viruses pirate this existing macromolecular transport pathway to spread infection and therefore represent important tools to investigate the cellular mechanisms that govern intercellular communication The book provides a state of the art overview of the intricate functional virus host relationships that allow a virus or viroid to move cell to cell and systemically through the plant as well as from plant to plant and thus to spread infection The book also illustrates the mechanisms by which viruses overcome plant defence responses such as RNA silencing Arabidopsis is introduced as a plant host eminently suitable for genetic approaches to identify novel players in plant virus interactions

**The Plant Plasma Membrane** Angus S. Murphy, Wendy Peer, Burkhard Schulz, 2010-11-11 In plant cells the plasma membrane is a highly elaborated structure that functions as the point of exchange with adjoining cells cell walls and the external environment Transactions at the plasma membrane include uptake of water and essential mineral nutrients gas exchange movement of metabolites transport and perception of signaling molecules and initial responses to external biota Selective transporters control the rates and direction of small molecule movement across the membrane barrier and manipulate the turgor that maintains plant form and drives plant cell expansion The plasma membrane provides an environment in which molecular and macromolecular interactions are enhanced by the clustering of proteins in oligimeric complexes for more efficient retention of biosynthetic intermediates and by the anchoring of protein complexes to promote regulatory interactions The coupling of signal perception at the membrane surface with intracellular second messengers also involves transduction across the plasma membrane Finally the generation and ordering of the external cell walls involves processes mediated at the plant cell surface by the plasma membrane This volume is divided into three sections The first

section describes the basic mechanisms that regulate all plasma membrane functions The second describes plasma membrane transport activity The final section of the book describes signaling interactions at the plasma membrane These topics are given a unique treatment in this volume as the discussions are restricted to the plasma membrane itself as much as possible A more complete knowledge of the plasma membrane s structure and function is essential to current efforts to increase the sustainability of agricultural production of food fiber and fuel crops      Lipid Signaling in Plants Teun

Munnik,2009-12-03 This comprehensive update on plant lipid signaling covers the measurement regulation and function of phospholipases lipid kinases lipid phosphatases inositolpolphosphates polyphosphoinositides phosphatic acid and other lipid signals such as oxylipins      **Plant Endocytosis** Jozef Šamaj,František Baluška,Diedrik Menzel,2014-12-03 Endocytosis is a fundamental biological process which is conserved among all eukaryotes It is essential not only for many physiological and signalling processes but also for interactions between eukaryotic cells and pathogens or symbionts This book covers all aspects of endocytosis in both lower and higher plants including basic types of endocytosis endocytic compartments and molecules involved in endocytic internalization and recycling in diverse plant cell types It provides a comparison with endocytosis in animals and yeast and discusses future prospects in this new and rapidly evolving plant research field Readers will find an overview of the state of the art methods and techniques applied in plant endocytosis research      *Endosperm* Odd-Arne Olsen,2007-06-12 The nutritive endosperm of angiosperms is mankind s most important source of food livestock feed and industrial raw material This book is the first comprehensive overview of the developmental and molecular biology of endosperm The text covers cereal endosperm development from fertilization to maturity including molecular and cell biology of the syncytial phase the cellularization process and cell fate specification of the embryo surrounding region cells the basal transfer cells the starchy endosperm and aleurone cells In addition endosperm development in the model species *Arabidopsis thaliana* is covered along with recent progress in endosperm in vitro culture Special features of endosperm such as imprinting polyploidy programmed cell death and anthocyanin biosynthesis are described in separate chapters Finally the genes and pathways for the main nutritional components of endosperm storage proteins and starch are covered in detail Each chapter is illustrated with figures and diagrams accompanied by text intended for readers at all levels with a basic understanding of cell and molecular biology      *The Expanding Cell* Jean-Pierre Verbelen,Kris Vissenberg,2006-11-03 After division plant cells are able to increase their volume enormously by cell expansion making the expanding cell a crucial player in the production of biomass The study of plant cell expansion involves many different disciplines and technical approaches and this book is the first attempt to bring this diversity together to present a multifaceted view of the most up to date knowledge Included are data ranging from biophysical measurements and chemical analysis to molecular biological approaches and microscopy      *Marschner's Mineral Nutrition of Plants* Zed Rengel,Ismail Cakmak,Philip John White,2022-12-09 An understanding of the mineral nutrition of plants is of fundamental importance in both basic and applied

plant sciences The fourth edition of this book retains the aim of the first in presenting the principles of mineral nutrition in the light of current advances Marschner s Mineral Nutrition of Plants 4th Edition is divided into two parts Nutritional Physiology and Plant Soil Relationships In Part I emphasis is put on uptake and transport of nutrients in plants root shoot interactions role of mineral nutrition in yield formation stress physiology water relations functions of mineral nutrients and contribution of plant nutrition to food nutritional quality disease tolerance and global nutritional security of human populations In view of the increasing interest in plant soil interactions Part II focuses on the effects of external and internal factors on root growth rhizosphere chemistry and biology soil borne ion toxicities and nutrient cycling Now with color figures throughout this book continues to be a valuable reference for plant and soil scientists and undergraduate and graduate students in the fields of plant nutrition nutritional physiology and soil fertility Offers new content on the relationship between climate change soil fertility and crop nutrition Keeps overall structure of previous editions Includes updates in every chapter on new developments ideas and challenges



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