

# Expansin

Ying Liu

**Controlling Leaf Growth by Phased Induction of Expansin** Jennifer Marina Sloan,2010

**Molecular Characterization of Expansin and Xyloglucan Endotransglycosylase Gene Expression During Tomato Seed Germination** Feng Chen,2000

**The Role of Expansin in Leaf Development** Hoe Han Goh,2012

The Expanding Cell Jean-Pierre Verbelen,Kris Vissenberg,2006-11-03 The study of plant cell expansion involves many different disciplines and technical approaches, and this book brings this diversity together to present a multifaceted view of the most up-to-date knowledge. Coverage includes data ranging from biophysical measurements and chemical analysis to molecular biological approaches and microscopy.

*Plant Hormones* Peter J. Davies,2007-11-06 Plant hormones play a crucial role in controlling the way in which plants grow and develop. While metabolism provides the power and building blocks for plant life, it is the hormones that regulate the speed of growth of the individual parts and integrate them to produce the form that we recognize as a plant. This book is a description of these natural chemicals: how they are synthesized and metabolized, how they act at both the organismal and molecular levels, how we measure them, a description of some of the roles they play in regulating plant growth and development, and the prospects for the genetic engineering of hormone levels or responses in crop plants. This is an updated revision of the third edition of the highly acclaimed text. Thirty-three chapters, including two totally new chapters plus four chapter updates, written by a group of fifty-five international experts, provide the latest information on Plant Hormones, particularly with reference to such new topics as signal transduction, brassinosteroids, responses to disease, and expansins. The book is not a conference proceedings but a selected collection of carefully integrated and illustrated reviews describing our knowledge of plant hormones and the experimental work that is the foundation of this information. The Revised 3rd Edition adds important information that has emerged since the original publication of the 3rd edition. This includes information on the receptors for auxin, gibberellin, abscisic acid and jasmonates, in addition to new chapters on strigolactones, the branching hormones, and florigen, the flowering hormone.

Advances in Botanical Research ,2008-08-08 Edited by Jean-Claude Kader and Michel Delseny and supported by an international Editorial Board, Advances in Botanical Research publishes in-depth and up-to-date reviews on a wide range of topics in plant sciences. Currently in its 47th volume, the series features a wide range of reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology and ecology. This eclectic volume features six reviews on cutting-edge topics of interest to post-graduates and researchers alike. \* Multidisciplinary reviews written from a broad range of scientific perspectives \* For over 40 years, series has enjoyed a reputation for excellence \* Contributors internationally recognized authorities in their respective fields

*Annual Plant Reviews, Plant Cell Separation and Adhesion* Jeremy A. Roberts,Zinnia Gonzalez-Carranza,2008-04-15 Cell separation is an important process that occurs throughout the life cycle of a plant. It enables the radicle to emerge from the germinating seed, vascular tissue to differentiate, sculpturing of leaves and flowers to take place, pollen to be shed from the mature anther, fruit to soften, senescent and non-functional organs to be lost, and seeds to be shed. In addition to its intrinsic scientific interest, many of the developmental processes to which it contributes have importance for agriculture and horticulture. This is the first volume to focus exclusively on these processes and to link improvements in our scientific understanding with methods that may allow us to manipulate cell separation and adhesion to the benefit of the agricultural and horticultural industries. It will therefore be of interest to the experimental scientist and to those who wish to apply these techniques commercially.

**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.

**Postharvest Biology and Technology of Fruits, Vegetables, and Flowers** Gopinadhan Paliyath,Dennis P. Murr,Avtar K. Handa,Susan Lurie,2009-03-16 An increased understanding of the developmental physiology, biochemistry, and molecular biology during early growth, maturation, ripening, and postharvest conditions has improved technologies to maintain the shelf life and quality of fruits, vegetables, and flowers. Postharvest Biology and Technology of Fruits, Vegetables, and Flowers provides a comprehensive introduction to this subject, offering a firm grounding in the basic science and branching out into the technology and practical applications. An authoritative resource on the science and technology of the postharvest sector, this book surveys the body of knowledge with an emphasis on the recent advances in the field.

**Plant Cell Walls** Nicholas C. Carpita,Malcolm Campbell,Mary Tierney,2012-12-06 This work is a comprehensive collection of articles that cover aspects of cell wall research in the genomic era. Some 2500 genes are involved in some way in wall biogenesis and turnover, from generation of substrates, to polysaccharide and lignin synthesis, assembly, and rearrangement in the wall. Although a great number of genes and gene families remain to be characterized, this issue provides a census of the genes that have been discovered so far. The articles comprising this issue not only illustrate the enormous progress made in identifying the wealth of wall-related genes but they also show the future directions and how far we have to go. As cell walls are an enormously important source of raw material, we anticipate that cell-wall-related genes are of significant economic importance. Examples include the modification of pectin-cross-linking or cell-cell adhesion to increase shelf life of fruits and vegetables, the enhancement of dietary fiber contents of cereals, the improvement of yield and quality of fibers, and the relative allocation of carbon to wall biomass for use as biofuels. The book is intended for academic and professional scientists working in the area of plant biology as well as material chemists and engineers, and food scientists who define new ways to use cell walls.

**The Plant Cell Wall** Jocelyn K. C. Rose,2003 Enzymes, lignin, proteins, cellulose, pectin, kinase.

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.

Lignocellulosic Biomass Production and Industrial Applications Arindam Kuila,Vinay Sharma,2017-05-11 Lignocellulosic Biomass Production and Industrial Applications describes the utilization of lignocellulosic biomass for various applications. Although there have been numerous reports on lignocellulosic biomass for biofuel application, there have been very few other applications reported for lignocellulosic biomass-based chemicals and polymers. Therefore, this book covers all of the possible lignocellulosic biomass applications. Besides describing the different types of biofuel production, such as bioethanol, biobutanol, biodiesel and

biogas from lignocellulosic biomass, it also presents various other lignocellulosic biomass biorefinery applications for the production of chemicals, polymers, paper and bioplastics. In addition, there are chapters on valorization of lignocellulosic materials, alkali treatment to improve the physical, mechanical and chemical properties of lignocellulosic natural fibers, and a discussion of the major benefits, limitations and future prospects of the use of lignocellulosic biomass.

**The Kiwifruit Genome** Raffaele Testolin,Hong-Wen Huang,Allan Ross Ferguson,2016-05-02 This book describes the basic botanical features of kiwifruit and its wild relatives, reports on the steps that led to its genome sequencing, and discusses the results obtained with the assembly and annotation. The core chapters provide essential insights into the main gene families that characterize this species as a crop, including the genes controlling sugar and starch metabolism, pigment biosynthesis and degradation, the ascorbic-acid pathway, fruit softening and postharvest metabolism, allergens, and resistance to pests and diseases. The book offers a valuable reference guide for taxonomists, geneticists and horticulturists. Further, since information gained from the genome sequence is extraordinarily useful in assessing the breeding value of individuals based on whole-genome scans, it will especially benefit plant breeders. Accordingly, chapters are included that focus on gene introgression from wild relatives and genome-based breeding.

*Petunia* Tom Gerats,Judy Strommer,2008-12-11 *Petunia* belongs to the family of the Solanaceae and as such is closely related to important crop species like tomato, potato, eggplant, pepper and tobacco. With around 35 species described it is one of the smaller genera and among those there are two groups of species that make up the majority of them: the purple flowered *P.integrifolia* group and the white flowered *P.axillaris* group. It is assumed that interspecific hybrids between members of these two groups have laid the foundation for the huge variation in cultivars as selected from the 1830's onwards. *Petunia* thus has been a commercially important ornamental since the early days of horticulture. Despite that, *Petunia* was in use as a research model only parsimoniously until the late fifties of the last century. By then seed companies started to fund academic research, initially with the main aim to develop new color varieties. Besides a moment of glory around 1980 (being elected a promising model system, just prior to the *Arabidopsis* boom), *Petunia* has long been a system in the shadow. Up to the early eighties no more than five groups developed classical and biochemical genetics, almost exclusively on flower color genes. Then from the early eighties onward, interest has slowly been growing and nowadays some 20-25 academic groups around the world are using *Petunia* as their main model system for a variety of research purposes, while a number of smaller and larger companies are developing further new varieties. At present the system is gaining credibility for a number of reasons, a very important one being that it is now generally realized that only comparative biology will reveal the real roots of evolutionary development of processes like pollination syndromes, floral development, scent emission, seed survival strategies and the like. As a system to work with, *Petunia* combines advantages from several other model species: it is easy to grow, sets abundant seeds, while self- and cross pollination is easy; its lifecycle is four months from seed to seed; plants can be grown very densely, in 1 cm<sup>2</sup> plugs and can be rescued easily upon flowering, which makes even huge selection plots easy to handle. Its flowers (and indeed leaves) are relatively large and thus obtaining biochemical samples is no problem. Moreover, transformation and regeneration from leaf disc or protoplast are long established and easy-to-perform procedures. On top of this easiness in culture, *Petunia* harbors an endogenous, very active transposable element system, which is being used to great advantage in both forward and reverse genetics screens. The virtues of *Petunia* as a model system have only partly been highlighted. In a first monograph, edited by K. Sink and published in 1984, the emphasis was mainly on taxonomy, morphology, classical and biochemical genetics, cytogenetics, physiology and a number of topical subjects. At that time, little molecular data was available. Taking into account that that first monograph will be offered electronically as a supplement in this upcoming edition, we would like to put the overall emphasis for the second edition on molecular developments and on comparative issues. To this end we propose the underneath set up, where chapters will be brief and topical. Each chapter will present the historical setting of its subject, the comparison with other systems (if available) and the unique progress as made in *Petunia*. We expect that the second edition of the *Petunia* monograph will draw a broad readership both in academia and industry and hope that it will contribute to a further expansion in research on this wonderful Solanaceae.

Plant Organ Abscission: From Models to Crops Timothy J. Tranbarger,Mark L. Tucker,Jeremy A. Roberts,Shimon Meir,2017-11-22 Plant organ abscission is a developmental process regulated by the environment, stress, pathogens and the physiological status of the plant. In particular, seed and fruit abscission play an important role in seed dispersion and plant reproductive success and are common domestication traits with important agronomic consequences for many crop species. Indeed, in natural populations, shedding of the seed or fruit at the correct time is essential for reproductive success, while for crop species the premature or lack of abscission may be either beneficial or detrimental to crop productivity. The use of model plants, in particular *Arabidopsis* and tomato, have led to major advances in our understanding of the molecular and cellular mechanisms underlying organ abscission, and now many workers pursue the translation of these advances to crop species. Organ abscission involves specialized cell layers called the abscission zone (AZ), where abscission signals are perceived and cell separation takes place for the organ to be shed. A general model for plant organ abscission includes (1) the differentiation of the AZ, (2) the acquisition of AZ cells to become competent to respond to various abscission signals, (3) response to signals and the activation of the molecular and cellular processes that lead to cell separation in the AZ and (4) the post-abscission events related to protection of exposed cells after the organ has been shed. While this simple four-phase framework is helpful to describe the abscission process, the exact mechanisms of each stage, the differences between organ types and amongst diverse species, and in response to different abscission inducing signals are far from elucidated. For an organ to be shed, AZ cells must transduce a multitude of both endogenous and exogenous signals that lead to transcriptional and cellular and ultimately cell wall modifications necessary for adjacent cells to separate. How these key processes have been adapted during evolution to allow for organ abscission to take place in different locations and under different conditions is unknown. The aim of the current proposal is to present and be able to compare recent results on our understanding of organ abscission from model and crop species, and to provide a basis to understand both the evolution of abscission in plants and the translation of advances with model plants for applications in crop species.

Sustainable Degradation of Lignocellulosic Biomass Anuj Chandel,Silvio Silverio Da Silva,2013-05-15 This book provides important aspects of sustainable degradation of lignocellulosic biomass which has a pivotal role for the economic production of several value-added products and biofuels with safe environment. Different pretreatment techniques and enzymatic hydrolysis process along with the characterization of cell wall components have been discussed broadly. The following features of this book attribute its distinctiveness: This book comprehensively covers the improvement in methodologies for the biomass pretreatment, hemicellulose and cellulose breakdown into fermentable sugars, the analytical methods for biomass characterization, and bioconversion of cellulose into biofuels. In addition, mechanistic analysis of biomass pretreatment and enzymatic hydrolysis have been discussed in details, highlighting key factors influencing these processes at industrial scale.

**Alicyclic Hydrocarbons—Advances in Research and Application: 2012 Edition** ,2012-12-26 *Alicyclic Hydrocarbons—Advances in Research and Application: 2012 Edition* is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Alicyclic Hydrocarbons in a concise format. The editors have built *Alicyclic Hydrocarbons—Advances in Research and Application: 2012 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about Alicyclic Hydrocarbons in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Alicyclic Hydrocarbons—Advances in Research and Application: 2012 Edition* has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

**Insights in Computational Genomics: 2022** Richard D. Emes,Quan Zou,Mehdi Pirooznia,Marco Pellegrini,2023-08-15 This Research Topic is part of the Insights in Frontiers in Genetics series. Other titles in the series are: Genetics, Insights in Evolutionary and Population Genetics: 2022 Genetics, Insights in Livestock Genomics: 2022 Genetics, Insights in Epigenomics and Epigenetics: 2022 Genetics, Insights in Behavioral and

Psychiatric Genetics: 2022 Genetics, Insights in Neurogenomics: 2022 Genetics, Insights in Genomic Assay Technology: 2022 Genetics, Insights in Genetics of Common and Rare Diseases: 2022 We are now entering the third decade of the 21st Century, and, especially in the last years, the achievements made by scientists have been exceptional, leading to major advancements in the fast-growing field of Genetics. Frontiers have organized a series of Research Topics to highlight the latest advancements in research across the field of Computational Genomics, with articles from the members of our accomplished Editorial Boards. This editorial initiative of particular relevance, led by Prof Richard Emes, Specialty Chief Editor of the Computational Genomics section, together with Dr. Pirooznia and Dr Zou, focused on new insights, novel developments, current challenges, latest discoveries, recent advances, and future perspectives in the field of Computational Genomics. The Research Topic solicits brief, forward-looking contributions from the editorial board members that describe the state of the art, outlining recent developments and major accomplishments that have been achieved and that need to occur to move the field forward. Authors are encouraged to identify the greatest challenges in the sub-disciplines, and how to address those challenges.

**Enzymes in Farm Animal Nutrition, 3rd Edition** Michael R. Bedford,Gary G. Partridge,Milan Hruby,Carrie L. Walk,2022-03-11 From alpha-galactosidases to xylanases, Enzymes in Farm Animal Nutrition provides a comprehensive guide to all aspects associated with enzyme-supplemented animal feeds. It details the history and size of the feed enzyme market, before describing how feed enzymes are manufactured and employed in monogastric, aqua and ruminant diets. This new edition explores considerable advances such as the use of enzymes in fish and shrimp diets, new understanding of how phytases function in the animal, NSPase research and enzymes' extended use in ruminant markets. Covering biochemistry, enzymology and characteristics relevant to animal feed use, this book forms a valuable resource for academics and students of animal nutrition and production, as well as professionals in the animal feed industry.

Whispering the Secrets of Language: An Mental Quest through **Expansin**

In a digitally-driven world where screens reign supreme and quick connection drowns out the subtleties of language, the profound techniques and psychological nuances concealed within phrases usually move unheard. Yet, located within the pages of **Expansin** a interesting fictional value sporting with fresh feelings, lies a fantastic journey waiting to be undertaken. Written by a talented wordsmith, this wonderful opus encourages viewers on an introspective journey, gently unraveling the veiled truths and profound affect resonating within ab muscles cloth of each word. Within the mental depths with this touching review, we will embark upon a genuine exploration of the book is core subjects, dissect their captivating writing design, and succumb to the effective resonance it evokes strong within the recesses of readers hearts.

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