

Plant Cell



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Dirk Inzé



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Dashek, 2010-03-09 While there are a few plant cell biology books that are currently available these are expensive methods oriented monographs The present volume is a textbook for upper undergraduate and beginning graduate students This textbook stresses concepts and is inquiry oriented To this end there is extensive use of original research literature As we live in an era of literature explosion one must be selective These judgements will naturally vary with each investigator Input was sought from colleagues in deciding the literature to include In addition to provision of select research literature this volume presents citations and summaries of certain laboratory methods In this connection the textbook stresses quantitative data to enhance the student's analytical abilities Thus the volume contains computer spread sheets and references to statistical packages e.g. Harvard Graphics and Statistica

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exchange *Plant Cell Biology* Brian E. S. Gunning, Martin W. Steer, 1996 Tremendous advances have been made in techniques and application of microscopy since the authors original publication of *Plant Cell Biology An Ultrastructural Approach* in 1975 With this revision the authors have added over 200 images exploiting modern techniques such as cryo microscopy immuno gold localisations immunofluorescence and confocal microscopy and in situ hybridisation Additionally there is a concise readable outline of these techniques With these advances in microscopy and parallel advances in molecular biology more and more exciting new information on structure function relationships in plant cells has become available This revision presents new images and provides a modern view of plant cell biology in a completely rewritten text that emphasizes underlying principles It introduces broad concepts and uses carefully selected representative micrographs to illustrate fundamental information on structures and processes Both students and researchers will find this a valuable resource for exploring plant cell and molecular biology Esau's Plant Anatomy Ray F. Evert, 2006-08-28 This revision of the now classic *Plant Anatomy* offers a completely updated review of the structure function and development of meristems cells and tissues of the plant body The text follows a logical structure based organization Beginning with a general overview chapters then cover the protoplast cell wall and meristems through to phloem periderm and secretory structures There are few more iconic texts in botany than Esau's *Plant Anatomy* this 3rd edition is a very worthy successor to previous editions ANNALS OF BOTANY June 2007 *The Plant Cell Cycle* Dirk Inzé, 2011-06-27 In recent years the study of the plant cell cycle has become of major interest not only to scientists working on cell division *sensu strictu* but also to scientists dealing with plant hormones development and environmental effects on growth The book *The Plant Cell Cycle* is a very timely contribution to this exploding field Outstanding contributors reviewed not only knowledge on the most important classes of cell cycle regulators but also summarized the various processes in which cell cycle control plays a pivotal role The central role of the cell cycle makes this book an absolute must for plant molecular biologists **Plant Cell Wall Patterning and Cell Shape** Hiroo Fukuda, 2014-12-03 Cell walls are defining feature of plant life The unique and multi faceted role they play in plant growth and development has long been of interest to students and researchers *Plant Cell Wall Patterning and Cell Shape* looks at the diverse function of cell walls in plant development intercellular communication and defining cell shape *Plant Cell Wall Patterning and Cell Shape* is divided into three sections The first section looks at role cell walls play in defining cell shape The second section looks more broadly at plant development While the third and final section looks at new insights into cell wall patterning **Current challenges in plant cell walls** Jose M. Estevez, **Plant cell wall in pathogenesis, parasitism and symbiosis** Vincenzo Lionetti, Jean-Pierre Metraux, 2015-03-13 The cell wall is a complex structure mainly composed of cellulose microfibrils embedded in a cohesive hemicellulose and pectin matrix Cell wall structural proteins enzymes and their inhibitors are also essential components of plant cell walls They are involved in the cross link of cell wall polysaccharides wall structure and the perception and signaling of defense related elicitors at the cell surface In the outer

part of the epidermal cells the polysaccharides are coated by the cuticle consisting of hydrophobic cutin suberin and wax layers Lignin a macromolecule composed of highly cross linked phenolic molecules is a major component of the secondary cell wall The cell wall is the first cell structure on which interactions between plants and a wide range of other organisms including insects nematodes pathogenic or symbiotic micro organisms take place It not only represents a barrier that limits access to the cellular contents that provide a rich nutrient source for pathogens but serves as a source of elicitors of plant defense responses released upon partial enzymatic degradation of wall polysaccharides during infection Modification of the plant cell wall can also occur at the level of plasmodesmata during virus infection as well as during abiotic stresses The fine structure and composition of the plant cell wall as well as the regulation of its biosynthesis can thus strongly influence resistance and susceptibility to pathogens This Research Topic provides novel insights and detailed overviews on the dynamics of the plant cell wall in plant defence parasitism and symbiosis and describes experimental approaches to study plant cell wall modifications occurring during interaction of plants with different organisms

The Plant Cell Cycle and Its Interfaces Dennis Francis, 2001 The Plant Cell Cycle and Its Interfaces is a timely review of what is known and what we need to know about important plant cell cycle interfaces Only through proper understanding can we underpin the manipulation of crop plants and in turn provide the vital resources for an ever increasing human population Written by contributors from leading laboratories around the world the book addresses fundamental questions about plant growth and development such as how plant growth regulators regulate the cell cycle how nutrients drive the cell cycle and how homeotic genes interface with the cell cycle at these key transition points

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

Methods in Plant Cell Biology, Part A, 1995-10-10 Methods in Plant Cell Biology provides in two volumes a comprehensive collection of analytical methods essential for researchers and students in the plant sciences Individual chapters written by experts in the field provide an introductory overview followed by a step by step technical description of the methods Key Features Written by experts many of whom have developed the individual methods described Contains most if not all the methods needed for modern research in plant cell biology Up to date and comprehensive Full references Allows quick access to relevant journal

articles and to the sources of chemicals required for the procedures Selective concentration on higher plant methods allows for particular emphasis on those problems specific to plants

Plant Cell and Tissue Culture Indra K. Vasil,Trevor A. Thorpe,2013-03-09 Plant Cell and Tissue Culture gives an exhaustive account of plant cell culture and genetic transformation including detailed chapters on all major field and plantation crops Part A presents a comprehensive coverage of all necessary laboratory techniques for the initiation nutrition maintenance and storage of plant cell and tissue cultures including discussions on these topics as well as on morphogenesis and regeneration meristem and shoot tip culture plant protoplasts mutant cell lines variation in tissue cultures isogenic lines fertilization control cryopreservation transformation and the production of secondary metabolites Part B then proceeds into detail on the specific in vitro culture of specific crops including cereals legumes vegetables potatoes other roots and tubers oilseeds temperate fruits tropical fruits plantation crops forest trees and ornamentals Plant Cell and Tissue Culture is and is likely to remain the laboratory manual of choice as well as a source of inspiration and a guide to all workers in the field

Regulation of and by the Plant Cell Wall Georgia Drakakaki,Laura Elizabeth Bartley,Charles T. Anderson,Xiaolan Rao,2020-06-25 Plant Cell Wall Polysaccharides as Biofuels and Biomaterials Ajaya K. Biswal,Berit Ebert,Mi Li,Jenny C. Mortimer,2022-08-05

Plant cell endomembrane dynamics and specialization Emily R Larson,Lorena Norambuena,Cecilia Rodriguez-Furlan,2023-11-09 *Plant Cell and Tissue Culture - A Tool in Biotechnology* Karl-Hermann Neumann,Ashwani Kumar,Jafargholi Imani,2020-10-01 This textbook is clearly structured with fourteen richly illustrated chapters and practical examples for easy understanding and direct implementation The methods and findings developed in the authors group are presented in detailed revised chapters Readers will find valuable updates on the molecular basis of biotechnological processes secondary metabolite production and genetic engineering In addition the basic principles of important biotechnologies as well as examples of specially designed crops that deliver improved productivity under stress conditions are presented This second edition sets the direction for future research on the basic aspects of plant tissue culture and its applications in the fields of secondary metabolite production and genetic engineering It provides both general and specific information for students teachers academic researchers and industrial teams who are interested in new developments in plant tissue culture and its applications

Plant Cells Mason Anders,2017-08-10 Plant Cells takes an in depth look at all parts of a plant cell and how they function Explore cell division and the three types of tissue plant cells are made of dermal vascular and ground

Redox State as a Central Regulator of Plant-Cell Stress Responses Dharmendra K Gupta,José M. Palma,Francisco J. Corpas,2016-09-19 This book provides an up to date overview of redox signaling in plant cells and its key role in responses to different stresses The chapters which are original works or reviews focus on redox signaling states cellular tolerance under different biotic and abiotic stresses cellular redox homeostasis as a central modulator redox homeostasis and reactive oxygen species ROS redox balance in chloroplasts and mitochondria oxidative stress and its role in peroxisome homeostasis glutathione related enzyme systems and

metabolism under metal stress and abiotic stress induced redox changes and programmed cell death The book is an invaluable source of information for plant scientists and students interested in redox state chemistry and cellular tolerance in plants *The Plant Cell Wall: Advances and Current Perspectives* Wagner Rodrigo De Souza,Igor Cesarino,Rowan Andrew Craig Mitchell,2023-07-10

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