



Plant Carbohydrates Ii Extracellular Carbohydrates
Encyclopedia Of Plant Physiology New Series Volumes
13b

F.A. Loewus, W. Tanner



Plant Carbohydrates Ii Extracellular Carbohydrates Encyclopedia Of Plant Physiology New Series Volumes 13b:

The Fungal Spore and Disease Initiation in Plants and Animals G.T. Cole,H.C. Hoch,2013-11-11 This treatise is focused on early aspects of fungal pathogenesis in plant and animal hosts Our aim in choosing the topics and contributors was to demonstrate common approaches to studies of fungal plant and fungal animal interactions particularly at the biochemical and molecular levels For example the initial events of adhesion of fungal spores to the exposed surface tissues of the host are essential for subsequent invasion of the plant or animal and establishment of pathogenesis A point of consensus among investigators who have directed their attention to such events in plants insects and vertebrates is that spore adhesion to the host cuticle or epithelium is more than a simple binding event It is a complex and potentially pivotal process in fungal plant interactions which may involve the secretion of fluids that prepare the infection court for the development of morphological stages of the germling and subsequent invasion of the host Nicholson and Epstein Chapter 1 The attachment of the fungal propagule to the arthropod cuticle is also mediated by the chemical components present on the outer layer of the spore wall and the epicuticle Initial attachment may be reinforced further by either the active secretion of adhesive materials or the modification of spore wall material located at the fungal spore arthropod cuticle interface Boucias and Pendland Chapter 5

Germination and Reserve Mobilization David R. Murray,2013-10-22 Seed Physiology Volume 2 Germination and Reserve Mobilization addresses some of the major unanswered questions about seed dormancy germination and post germination development of the seedling The book contains seven chapters and begins with two studies on dormancy one on the structural constraints to germination and another on metabolic barriers preventing germination These are followed by separate chapters on the physical and biochemical events following the imbibition of water by dry seeds the mobilization of polysaccharide reserves from endosperm the mobilization of nitrogen and phosphorus from external storage tissues and the mobilization of lipid reserves in seed tissues The final chapter reviews the subject of embryonic axis cotyledon interaction considering mainly those species where the cotyledons are adapted for the storage of reserves Both this volume and its companion Seed Physiology Volume 1 Development will provide a valuable resource for advanced students teachers and researchers in plant physiology biochemistry agronomy and related disciplines

Bacterial Adhesion M. Fletcher,D.C. Savage,2013-11-11 Study of the phenomena of bacterial adhesion to surfaces has accelerated considerably over the past 10 to 15 years During this period microbiologists have become increasingly aware that attachment to a substratum influences considerably the activities and structures of microbial cells Moreover in many cases attached communities of cells have important effects on their substratum and the surrounding environment Such phenomena are now known to be important in plant and animal hosts water and soil ecosystems and man made structures and industrial processes Much work on microbial adhesion in the early 1970s was descriptive Those studies were important for detecting and describing the phenomena of bacterial adhesion to substrata in various environments the findings have been presented in numerous recently published

excellent books and reviews In some studies attempts were made to elucidate some fundamental principles controlling adhesion processes in different environments containing a variety of microorganisms Common threads have been observed occasionally in different studies Taken as a whole however the information has revealed that many disparate factors are involved in adhesion processes Whether a particular microorganism can adhere to a certain substratum depends on the properties of the microbial strain itself and on characteristics of the substratum and of the environment Crop Physiology Abstracts ,1985 **Australian Journal of Plant Physiology** ,1989 **Plant Carbohydrates I** F.A. Loewus,W. Tanner,2012-12-06 The essential features of constitution configuration and conformation in carbohydrate chemistry so well established in the first half of this century had yet to be exploited by those concerned with biochemical and physiological processes in plants when the original Encyclopedia appeared Two outstanding developments discovery of sugar nucleotides and the advent of chromatography brought together the insight and a means of probing complexities inherent in plant carbohydrates These advances combined with a modern knowledge of enzymes and cellular metabolism have provided new horizons of investigation for the student of plant physiology This volume and its companion Vol 13B present a comprehensive assessment of the current viewpoint in plant carbohydrates with emphasis on those aspects which impinge on physiological processes of growth and development To accommodate the extensive amount of information to be presented subject matter has been divided somewhat arbitrarily into intracellular and extracellular carbohydrates with the latter defined as carbohydrates occurring in space outside the plasma membrane plasmalemma This classification is not exclusive rather it is intended to lend a degree of flexibility to the way in which subject matter is arranged between volumes The first section of this volume addresses the occurrence metabolism and function of monomeric and higher saccharides of fungi algae and higher plants *Plant Carbohydrates* Widmar Tanner, Frank Abel Loewus,1982 **Advances in Carbohydrate Chemistry and Biochemistry** ,1987-01-07 *Advances in Carbohydrate Chemistry and Biochemistry* *Horticultural Abstracts* ,1985 The Indian Journal of Agricultural Sciences ,1986 **Isolation and Characterization of Extensin Precursors from Suspension Cultured Tomato Cells** James J. Smith,1985 **Dictionary of Microbiology and Molecular Biology** Paul Singleton,Diana Sainsbury,2006-10-16 A unique encyclopaedic reference work covering the whole field of pure and applied microbiology and microbial molecular biology This latest edition contains a vast amount of new and updated material often to research level and well beyond the coverage of current textbooks making the dictionary even more valuable to lecturers students researchers and others in the biosciences and medicine Updates and extends current textbooks 18 000 entries from concise definitions to review length articles Extensive cross referencing between topics Thousands of references from mainstream journals and other specialist sources Over 5000 taxa algae archaeans bacteria fungi protozoa and viruses prions A 30 page Appendix of detailed metabolic pathways A classic book with a lifetime's use Reviews of the Second Edition very informative and extensive valuable reference tool FEBS Letters The material is well cross referenced Students should find it

particularly useful Society for General Microbiology the uniqueness is in its concise and clear description of terms extremely comprehensive and easy to use ARBA **Encyclopedia of Plant Physiology. New Series. 13B: Plant Carbohydrates. 2: Extracellular Carbohydrates. Contributors: G.O. Aspinall Et Al ,1981 Encyclopedia of Plant Physiology ,1982**
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 International Journal of Mycology and Lichenology ,1982

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