



BIOLOGY OF THE PLANT CUTICLE

Annual Plant Reviews, Volume 23

*Edited by Markus Riederer
and Caroline Müller*

Plant Cuticle Riederer

Alan R. Hemsley, Imogen Poole



Plant Cuticle Riederer:

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 **Plant Cuticles** G.

Kerstiens, 1996-10 The cuticle together with its associated waxes acts as a diffusion barrier against the uncontrolled loss of water and solutes from leaves It forms a mechanical barrier against penetration by fungi and pests and communicates with them via chemical signals Plant cuticle: From biosynthesis to ecological functions Eva Domínguez, Antonio Heredia, Isabel Molina, Amauri Bueno, 2023-03-23

Annual Plant Reviews, Biology of the Plant Cuticle Markus Riederer, Caroline Muller, 2006-06-26 *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 **Air Pollutants and the Leaf Cuticle** Kevin E. Percy, J. Neil Cape, Richard Jagels, Caroline J. Simpson, 2013-06-29 Plant leaves are covered by a thin lipoidal non living membrane called the cuticle Forming the interface between plants and the atmospheric

environment it presents an effective barrier to pollutant entry The book provides a comprehensive review of air pollutant effects on the cuticle and covers the following thematic areas Cuticular physicochemical characteristics physiological regulatory and protective roles Effects mechanisms and consequences of air pollutant interaction with leaf cuticles Non anthropogenic and environmental influences on the cuticle and potential of the cuticle for biomonitoring and critical levels mapping New developments in experimental methodology and analytical techniques

Plant Anatomy Richard Crang, Sheila Lyons-Sobaski, Robert Wise, 2018-11-30 Intended as a text for upper division undergraduates graduate students and as a potential reference this broad scoped resource is extensive in its educational appeal by providing a new concept based organization with end of chapter literature references self quizzes and illustration interpretation The concept based pedagogical approach in contrast to the classic discipline based approach was specifically chosen to make the teaching and learning of plant anatomy more accessible for students In addition for instructors whose backgrounds may not primarily be plant anatomy the features noted above are designed to provide sufficient reference material for organization and class presentation This text is unique in the extensive use of over 1150 high resolution color micrographs color diagrams and scanning electron micrographs Another feature is frequent side boxes that highlight the relationship of plant anatomy to specialized investigations in plant molecular biology classical investigations functional activities and research in forestry environmental studies and genetics as well as other fields Each of the 19 richly illustrated chapters has an abstract a list of keywords an introduction a text body consisting of 10 to 20 concept based sections and a list of references and additional readings At the end of each chapter the instructor and student will find a section by section concept review concept connections concept assessment 10 multiple choice questions and concept applications Answers to the assessment material are found in an appendix An index and a glossary with over 700 defined terms complete the volume

Materials Design Inspired by Nature Peter Fratzl, John Dunlop, Richard Weinkamer, 2015-11-09 The inner architecture of a material can have an astonishing effect on its overall properties and is vital to understand when designing new materials Nature is a master at designing hierarchical structures and so researchers are looking at biological examples for inspiration specifically to understand how nature arranges the inner architectures for a particular function in order to apply these design principles into man made materials Materials Design Inspired by Nature is the first book to address the relationship between the inner architecture of natural materials and their physical properties for materials design The book explores examples from plants the marine world arthropods and bacteria where the inner architecture is exploited to obtain specific mechanical optical or magnetic properties along with how these design principles are used in man made products Details of the experimental methods used to investigate hierarchical structures are also given Written by leading experts in bio inspired materials research this is essential reading for anyone developing new materials

Crop Plant Anatomy Ratikanta Maiti, 2012 Divided into four sections covering anatomy in relation to crop management anatomical descriptions of the major crop plants

anatomical changes in adaptation to environments and the link between anatomy and productivity this book provides a comprehensive source of crop plant anatomy information The crop areas covered include cereals pulses and beans oil crops and fibre crops Suitable for students researchers and professionals in the field this book brings together economic plant anatomy and crop productivity for the first time It is suitable for students and researchers of crop science **Biology of Floral Scent** Natalia Dudareva,Eran Pichersky,2006-03-27 As with nearly all living creatures humans have always been attracted and intrigued by floral scents Yet while we have been manufacturing perfumes for at least 5000 years to serve a myriad of religious sexual and medicinal purposes until very recently the limitation of our olfactory faculty has greatly hindered our capacity to clearly and observe floral scents Advances in Molecular Breeding Toward Drought and Salt Tolerant Crops Matthew A. Jenks,Paul M. Hasegawa,Shri Mohan Jain,2009-05-07 With near comprehensive coverage of new advances in crop breeding for drought and salinity stress tolerance this timely work seeks to integrate the most recent findings about key biological determinants of plant stress tolerance with modern crop improvement strategies This volume is unique because it provides exceptionally wide coverage of current knowledge and expertise being applied in drought and salt tolerance research **Bioindicators and Biomonitors** B.A. Markert,A.M. Breure,H.G. Zechmeister,2003-06-30 This book provides comprehensive single source coverage of bioindication biomonitoring in the fields of ecology ecotoxicology and environmental sciences from the ecological basics to the effects of chemicals on the environment and the latest test strategies Contributions by leading figures in ecology from around the world reflect the broad scope of current thinking and research making this volume essential reading for informed professionals and students Plasma Agriculture Matej Holc,Ita Junkar,Miran Mozetič,2020-10-06 Garlic is popular versatile and tasty The Allium crop is beloved worldwide as a food spice and herbal remedy but is also widely researched and used in disciplines ranging from medicine to farming However what if the growth and yield of garlic could be influenced simply by physically treating its cloves This is the principle behind plasma agriculture an emerging field of science which introduces physical concepts to agricultural practice Here seeds or other plant materials are briefly exposed to gas plasma which alters the surface properties stimulates the growth and strengthens the plant This book takes an in depth look at the physics of low pressure oxygen plasma and shows how the plasma reactive species affect the treated surface It uses garlic as a model organism to explain the main principles underlying plasma agriculture The most immediate effects of plasma on the garlic clove are physico chemical followed by biological responses that range from sprout and root growth stimulation to yield increase As it connects results of plasma characterization to garlic plant responses this book will appeal to plasma scientists as well as those interested in experimental botany and agriculture It provides insights into the current understanding of plasma agriculture and encourages further steps in exploring the effects and benefits of this unique approach Surface Characteristics of Malus Domestica Borkh. Leaves and Fruits as Influenced by Ontogenesis and Environmental Factors Katja Bringe,2007 **Induced Plant Resistance to**

Herbivory Andreas Schaller, 2008-03-27 This timely book provides an overview of the anatomical chemical and developmental features contributing to plant defense with an emphasis on plant responses that are induced by wounding or herbivore attack The book first introduces general concepts of direct and indirect defenses followed by a focused review of the different resistance traits Finally signal perception and transduction mechanism for the activation of plant defense responses are discussed **Water and Solute Permeability of Plant Cuticles** Lukas Schreiber, Jörg

Schönherr, 2009-01-31 Transport properties of plant cuticles are important for different fields of modern plant sciences Ecologists and physiologists are interested in water losses to the environment via the cuticle Penetration of plant protecting agents and nutrients into leaves and fruits is relevant for research in agriculture and plant protection Ecotoxicologists need to know the amounts of environmental xenobiotics which accumulate in leaves and other primary plant organs from the environment For all of these studies suitable methods should be used and a sound theoretical basis helps to formulate testable hypotheses and to interpret experimental data Unnecessary experiments and experiments which yield ambiguous results can be avoided In this monograph we have analysed on a molecular basis the movement of molecules across plant cuticles Based on current knowledge of chemistry and structure of cuticles we have characterised the aqueous and lipophilic pathways the nature and mechanisms of mass transport and the factors controlling the rate of movement We have focused on structure property relationships for penetrant transport which can explain why water and solute permeabilities of cuticles differ widely among plant species Based on this knowledge mechanisms of adaptation to environmental factors can be better understood and rates of cuticular penetration can be optimised by plant physiologists and pesticide chemists Weed

Research Paul E. Hatcher, Robert J. Froud-Williams, 2017-05-24 This book presents the most up to date and comprehensive guide to the current and potential future state of weed science and research Weeds have a huge effect on the world by reducing crop yield and quality delaying or interfering with harvesting interfering with animal feeding including poisoning reducing animal health and preventing water flow They are common across the world and cost billions of dollars worth of crop losses year on year as well as billions of dollars in the annual expense of controlling them An understanding of weeds is vital to their proper management and control without which the reduction in crop yields that they would cause could lead to mass starvation across the globe Topics covered include weed biology and ecology control of weeds and particular issues faced in their control Authored and edited by internationally renowned scientists in the field all of whom are actively involved in European Weed Research Society working groups this succinct overview covers all the relevant aspects of the science of weeds Weed Research Expanding Horizons is the perfect resource for botanists horticultural scientists agronomists weed scientists plant protection specialists and agrochemical company personnel The Evolution of Plant Physiology Alan R. Hemsley, Imogen Poole, 2004-02-05 Coupled with biomechanical data organic geochemistry and cladistic analyses utilizing abundant genetic data scientific studies are revealing new facets of how plants have evolved over time This collection of

papers examines these early stages of plant physiology evolution by describing the initial physiological adaptations necessary for survival as upright structures in a dry terrestrial environment The Evolution of Plant Physiology also encompasses physiology in its broadest sense to include biochemistry histology mechanics development growth reproduction and with an emphasis on the interplay between physiology development and plant evolution Contributions from leading neo and palaeo botanists from the Linnean Society Focus on how evolution shaped photosynthesis respiration reproduction and metabolism Coverage of the effects of specific evolutionary forces variations in water and nutrient availability grazing pressure and other environmental variables

Reviews of Environmental Contamination and Toxicology George W. Ware, 2012-12-06 Global attention in scientific industrial and governmental communities to traces of toxic chemicals in foodstuffs and in both abiotic and biotic environments has justified the present triumvirate of specialized publications in this field comprehensive reviews rapidly published progress reports and archival documentations These three publications are integrated and scheduled to provide in international communication the coherency essential for nonduplicative and current progress in a field as dynamic and complex as environmental contamination and toxicology Until now there has been no journal or other publication series reserved exclusively for the diversified literature on toxic chemicals in our foods our feeds our geographical surroundings our domestic animals our wildlife and ourselves Around the world immense efforts and many talents have been mobilized to technical and other evaluations of nature's local magnitudes fates and toxicology of the persisting residues of these chemicals loosed upon the world Among the sequelae of this broad new emphasis has been an inescapable need for an articulated set of authoritative publications where one could expect to find the latest important world literature produced by this emerging area of science together with documentation of pertinent ancillary legislation

Abiotic Stress Biology in Horticultural Plants Yoshinori Kanayama, Alexey Kochetov, 2015-01-16 The purpose of this publication is to elucidate the biological aspect of the abiotic stress response from the field to the molecular level in horticultural plants This book is unique in that it concerns the basic aspect of abiotic stress biology and research progress at the molecular level in model plants or major field crops as it focuses mainly on the abiotic stress response in existing horticultural plants Many readers interested in plant abiotic stress biology are aware of the application of the latest findings to agricultural production and this book will have a special appeal for those readers The book will be of interest to scientists and graduate students who are involved in the research development production processing and marketing of horticultural products including those in developing countries who are interested in high tech and advanced science in this field The application of the latest findings to agricultural production is particularly useful Stress tolerance mechanisms in horticultural crops are gaining importance because most agricultural regions are predicted to experience considerably more extreme environmental fluctuations due to global climate change Further because of recent progress in next generation sequencing technologies the postgenomic era is impending not only in model plants and major cereal crops but also in horticultural crops which comprise a great diversity of

species This book provides information on the physiological aspects of the abiotic stress response in horticultural plants which is considered essential for postgenomic research **Postharvest Technology** Md Ahiduzzaman, 2022-04-28

Postharvest management of food crops is an important part of food safety and security across the supply chain It includes processing of agricultural produce storage packaging and coating postharvest disease management extending shelf life and maintaining food quality and safety Postharvest Technology Recent Advances New Perspectives and Applications discusses some important aspects of postharvest technologies Chapters address such topics as postharvest preservation technology postharvest disease management and postharvest processing and packaging

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