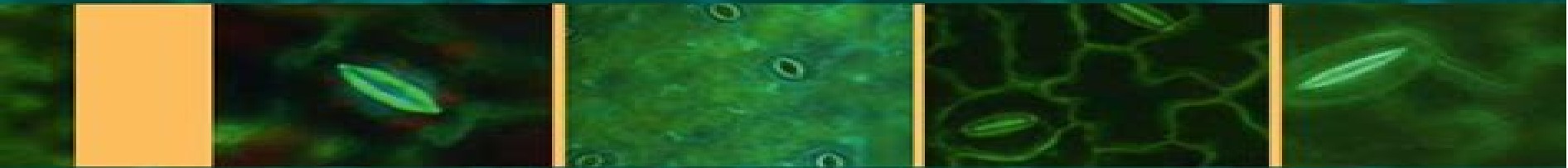


Lukas Schreiber
Jörg Schönherr



Water and Solute Permeability of Plant Cuticles

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**Kenneth Leonard Alvin, C. E.
Price, Linnean Society of London**



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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

Plant Microbiome Paradigm Ajit Varma, Swati Tripathi, Ram Prasad, 2020-08-28 This book provides a comprehensive overview of the current state of knowledge on plant microbiome interactions and associations It covers all major mechanistic approaches used to investigate microbes impacts on plant growth promotion disease control and health The industrial manufacture of nitrogen currently accounts for roughly 2% of the world's total energy consumption Microbial products are expected to reduce the need for costly fertilizers as well as chemical pesticides and fungicides While beneficial microorganisms are increasingly being used in agriculture abiotic and biotic stresses such as heat drought cold and salt can quickly kill or render them useless in the field However discovering new and better treatments is a lengthy process due to the considerable microbial diversity found in soils Researchers have now proposed using biotechnological approaches to accelerate the process of microbial technology development The fact that plant associated microbes stimulate plant growth and development is well known as the examples of rhizobia and mycorrhizal fungi show The mechanisms by which these microorganisms maintain plant growth include the production of phytohormones fixation of nitrogen and the mobilization of phosphorus and minerals The plant microbiome is also involved in pathogen suppression and especially the root microbiome acts as a protective shield against soil borne pathogens A special feature of this book is its multidisciplinary approach spanning from plant microbiology biocontrol fungal and bacterial endophytes plant physiology to biochemistry proteomics and genomics It is ideally suited for researchers and student of agricultural biotechnology soil biology and fungal biology

Biostimulants for Improving Reproductive Growth and Crop Yield Shubhpriya Gupta, Karel Dolezal, Johannes Van Staden, 2025-01-29 Biostimulants for Improving Reproductive Growth and

Crop Yield highlights their importance as a mechanism specifically for this result Intended to transform the latest scientific research into practical application the book focuses on the effects of biostimulants on flower and fruit development and set early flowering pollen viability germination and other reproductive aspects It covers a sustainable approach in utilization of these promising biostimulants in agriculture horticulture and floriculture for better productivity and to feed a growing world population Biostimulants are a group of substances of natural origin and or microorganisms that offers the potential to reduce the dependency on harmful chemical fertilizers that cause environmental degradation The application of biostimulants represents one of the most innovative and promising strategies to improve crop productivity Focuses on the biochemical physiological and molecular mode of action of biostimulants Includes the effects of both organic and inorganic biostimulants Details the role of biostimulants in sexual and asexual reproductive results *Development and evaluation of iodine biofortification strategies for vegetables* Patrick Lawson,2014 Iodine is an essential trace element for humans which is not ingested in sufficient quantities in many regions of the world In spite of the wide use of iodized table salt large portions of the German population are still inadequately supplied with the trace element Therefore further efforts are needed to improve the alimentary intake of iodine The aim of this dissertation was to develop an agronomical biofortification strategy for enriching vegetables with iodine by means of fertilization with iodine salts Hence foliar and soil application approaches were implemented and compared using a selection of different vegetable species in order to detect the influence of various environmental application and soil factors affecting the iodine uptake by plants **Bibliography of Agriculture** ,1985

Einmal auf der Welt. Und dann so Arnold Stadler,2009 Petroleum Abstracts. Literature and Patents ,1989 **INIS Atomindex** ,1995 Conference Papers Index ,1987 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 signa **Plant cuticle: From biosynthesis to ecological functions** Eva Domínguez,Antonio Heredia,Isabel Molina,Amauri Bueno,2023-03-23 **Ultrastructural Studies on Plant Cuticles** David William Reed,1979 The Isolation and Permeability of Plant Cuticle Wallace Herman Orgell,1954 *The Plant Cuticle* Kenneth Leonard Alvin,C. E. Price,Linnean Society of London,1982 **The Structure and Chemistry of the Plant Cuticle in Relation to Environmental Factors and to Permeability** Jesse Dave Skoss,1953 **Surface and Electrochemical Properties of Plant Cuticles** Jörg Schönherr,1972

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