

Disease Resistance In Plants 2nd Edition By

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one of the main challenges of sustainable agriculture is improving food production while reducing significant impact on the soil water and other environmental resources in this context the use of humic substances extracted from different substrates in agricultural practices has been envisioned as a promising nature like and environmental friendly technology to support crop yield and quality humic substances deriving from chemical and biological transformations of biota materials represent an intrinsic component of soil organic matter som consisting of associations of relatively small humic molecules linked together through hydrophobic interactions and hydrogen bonds because of their distinctive physicochemical features they are used in several industrial and agricultural applications and in remediation technologies for metal contaminated soils humic substances are of pivotal importance for environmental protection by conditioning soils and improving their stability and resistance to erosion in addition they possess inherent hormone like nature and exhibit biological activity this is often associated with complementary action of soil microbiota and is manifested in their capacity to modulate the transport and bioavailability of nutrients to plants influence root growth and architecture enhance crop yields and regulate the expression of a broad array of genes involved in plant metabolism development and resistance to stress despite significant efforts to explain the molecular structure of humic substances and its relationship with a plurality of physiological responses and signalling networks triggered in plants several functional aspects still need to be clarified one major issue is that humic substances possess a very complex structure which accounts for their multifaceted biological action therefore this research topic aims to update the knowledge on humic substances by improving the current understanding of their structure and interactions with plants and associated rhizosphere microorganisms thus shining light on the mechanisms and cellular signalling pathways through which humic substances target specific plant metabolic routes and elicit physiological responses implications of such interactions are

expected to be assessed using differential methodological approaches under either small scale trials or field conditions in view of developing advanced and sustainable agriculture technologies aimed at improving crop yield and food quality

a nato advanced study institute on light as energy source and information carrier in plant photo physiology was held at volterra italy from september 26 to october 6 1994 in order to consider the fundamental role that light plays in plant growth and development this book summarises the main lectures given at this meeting which concentrated on both photochemical energy conversion and signalling photosensing aspects light harvesting and conversion into chemical energy in photosynthesis occurs at the level of chlorophyll carotenoid containing photosystems in plants pigments are non covalently bound to a variety of polypeptides which serve as a specific scaffolding necessary to determine the energy coupling between pigments and thus allowing rapid excitation energy transfer from the antenna to the special reaction centre chlorophylls data from transient time resolved spectroscopies in the femtosecond and picosecond domain together with model calculations suggest that this process occurs in the 20 100 picosecond time span the special feature of reaction centre complexes ensures rapid primary charge separation probably in the order of 1 3 picoseconds with subsequent charge stabilisation reactions proceeding in the hundreds of picoseconds range the recently resolved crystallographic structure of lhcii the principal antenna complex of plants allows precise determination of pigment pigment distances and thus permits calculation of approximate chlorophyll chlorophyll forster hopping rates which are in good agreement with time resolved measurements

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