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this volume highlights fungal associations as they are found in mycorrhizas lichens and other fungal symbioses the emphasis is laid upon the molecular biochemical and ultrastructural analysis of these interactions major progress has been achieved over the last few years by the systematic application of modern methods developed mainly in molecular biology the data are presented in high quality illustrations leading the reader from the subcellular to higher levels of organization where specific symbiotic traits become apparent early stages of symbiotic interactions are of special interest they are compared to parasitic interrelations and also considered from an evolutionary standpoint

mycology the study of fungi originated as a subdiscipline of botany and was a descriptive discipline largely neglected as an experimental science until the early years of this century a seminal paper by blakeslee in 1904 provided evidence for self incompatibility termed heterothallism and stimulated interest in studies related to the control of sexual reproduction in fungi by mating type specificities soon to follow was the demonstration that sexually reproducing fungi exhibit mendelian inheritance and that it was possible to conduct formal genetic analysis with fungi the names burgeff kniep and lindegren are all

associated with this early period of fungal genetics research these studies and the discovery of penicillin by Fleming who shared a Nobel prize in 1945 provided further impetus for experimental research with fungi thus began a period of interest in mutation induction and analysis of mutants for biochemical traits such fundamental research conducted largely with *Neurospora crassa* led to the one gene one enzyme hypothesis and to a second Nobel prize for fungal research awarded to Beadle and Tatum in 1958 fundamental research in biochemical genetics was extended to other fungi especially to *Saccharomyces cerevisiae* and by the mid 1960s fungal systems were much favored for studies in eukaryotic molecular biology and were soon able to compete with bacterial systems in the molecular arena

Our image of plants is changing dramatically away from passive entities merely subject to environmental forces and organisms that are designed solely for the accumulation of photosynthate plants are revealing themselves to be dynamic and highly sensitive organisms that actively and competitively forage for limited resources both above and below ground organisms that accurately gauge their circumstances use sophisticated cost benefit analysis and take clear actions to mitigate and control diverse environmental threats moreover plants are also capable of complex recognition of self and non self and are territorial in behavior they are as sophisticated in behavior as animals but their potential has been masked because it operates on time scales many orders of magnitude less than those of animals plants are sessile organisms as such the only alternative to a rapidly changing environment is rapid adaptation this book will focus on all these new and exciting aspects of plant biology

Forty years after the discovery of the helix nature of DNA and more than twenty after the first applications of recombinant DNA technology to the pharmaceutical industry the Pandora's vase of biotechnology seems far from being empty new products for agriculture and the food industry are constantly being placed on the market and powerful monitoring techniques have been developed to track non modified and genetically modified vaccines viruses microbes and plants released into the environment molecular approaches for taxonomic purposes which might also be useful for quality control and assurance have been successfully developed and used for taxonomic purposes in the last decade for both prokaryotic and eukaryotic cells including yeasts and filamentous fungi mycorrhizae are one example of a traditional biotechnology that can greatly benefit from the latest molecular approaches these universal symbioses between soil fungi and plant roots play a central role in most of the natural and agricultural ecosystems in such key processes as nutrient cycling soil structural conservation and plant health for these reasons mycorrhizae have been successfully used to improve the quality of forest and agricultural seedlings to produce high quality micropropagated plants and to increase the production of edible mushrooms of high economic value such as truffles however although controlled inoculation of oak and hazel seedlings with ectomycorrhizal truffles has been carried out for decades in France and Italy and is still expanding commercially several technological gaps remain to be filled

this new biography of joseph r mccarthy shows how the wisconsin senator s campaign against american communists prized sensation above truth mccarthy often put aside his hunt for reds while he pursued his anti communist critics he fought foes not just with noisy accusations but with covert gossip he was gullible enough that some con artists managed to lure him on wild goose chases the man who charged others with being dupes was sometimes one himself historian fried s book builds on over a decade s research in a multitude of sources many of them newly opened not just mccarthy s own papers but those of forty seven senate colleagues plus records of journalists observers and activists it brings to light such theatrical episodes as a cia op against mccarthy as well as joe s quixotic search for soviet security chief lavrenti beria in spain the resulting multi focal perspective on the political and institutional setting in which mccarthy operated with such abandon is full of drama

recent years have brought an upsurge of interest in the study of arbuscular mycorrhizal am fungi partly due to the realization that the effective utilization of these symbiotic soil fungi is likely to be essential in sustainable agriculture impressive progress has been made during the last decade in the study of this symbiosis largely as a result of increasing exploitation of molecular tools although early emphasis was placed on the use of molecular tools to study physiological processes triggered by the symbiosis such as expression of symbiosis specific polypeptides and modulation of host defences other applications await it was obvious to us that gathering leaders in the field to summarize these topics and point out research needs was necessary if we were to understand the physiology and function of am fungi at a molecular level in addition we have taken the opportunity to present these reviews in a logical sequence of topics ranging from the initiation of the life cycle of the fungus to its functions in plant growth and in the below ground ecosystem it was a challenge to limit this flood of information to the confines of one text this is a very exciting time for mycorrhiza biologists and it is our hope that some of this excitement is conveyed to our readers

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