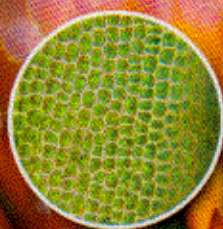


Botany is a forerunning field of study that could address the foremost disputes facing humanity in the 21st century. Coupled with the development of new tools and techniques, it could aid in finding solutions to diagnose unsolved questions. The present book summarizes the recent technological advances of plant science. This is a succinct, up-to-date, and relevant compilation based on the techniques used in plant science. This book embodies the recent knowledge of advanced techniques frequently being used over the last few decades. There are twelve chapters summarized systematically that demonstrate: the suitability of Laser Produced Plasma Spectroscopy; potential of NMR spectroscopy in plant metabolomics; recent developments and applications of novel analytical techniques for the analysis of plant materials; chlorophyll as a fluorescence analysis and a technique to explore the photochemistry of photosystem II; drought stress and metabolomics in plants; heat shock on *Bipolaris sorokiniana* in cereal crops; salt stress on crop plants and their mitigation strategies; plant cell death by rumen-induced stress on plant in ruminant herbivores; the role of diazotrophs in maintaining plant health in agricultural fields; population biology of *Rhizoctonia solani* AG-1 IA from India; and biofilms as a home for microorganisms and genetically modified organism. This book will be helpful for researchers, academicians and students working on the related fields.



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