

RECENT ADVANCES IN PLANT STRESS PHYSIOLOGY

The world population has increased dramatically in the past century, generating a concern for progressive and sustainable food production. It is expected to further increase by 1.3 billion in 2030 and by 2.5 billion in 2050, reaching 9.7 billion. To provide food security to this growing population, the world food production may need to increase by 60-110%. Biotic and abiotic stresses are major threat to plant growth and halt them from reaching their full genetic potential and ultimately limiting their productivity. High yield varieties are confronted by various stresses which lead to huge loss in production and productivity. Understanding the mechanisms involved in the response of plants to adverse environmental conditions is the first step in the generation of crops with higher tolerance to these stresses. This book provides a broad overview of biotic and abiotic stresses, their mechanisms and different strategies to improve stress tolerance in crop plants.

This book is a valuable source book for students, teachers, researchers engaged in stress physiology, biochemistry & molecular biology, plant breeding and soil science.



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Dr. Veena Jain has contributed to the fast growing area of biochemical and molecular mechanism(s) of abiotic stress tolerance in crop plants. She did her M.Sc. and Ph.D. from Chaudhary Charan Singh Haryana Agricultural University, Hisar and PDF from the University of Nottingham, Nottingham (UK) 1996-97. She is working in CCS HAU, Hisar as Principal Scientist/ Professor for the last fourteen years.



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