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Environmental stresses, such as heavy metals, drought, radiation, salts, pesticides, temperature, etc. are major factors collectively called abiotic stresses, which limit agricultural productivity. Abiotic stress factors negatively influence the survival, biomass production, and yield of staple food crops of up to 70%. In recent years, much attention has been given for developing strategies to alleviate the adverse effects of abiotic stresses on crops in order to fulfill the food demand of increasing population. Chemical application and agronomical crop management practices have been used to alleviate abiotic stresses with some success. During the last decade, extensive work has been carried out to understand plant hormone-mediated enhancement in abiotic stress tolerance using physiological, biochemical, genetic, molecular, and genomic approaches for crop breeding and management. This book has compiled recent research on plant hormone mediated regulation of abiotic stress tolerance in plants with special emphasis on crops.



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ISBN 978-1-53610-695-4



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