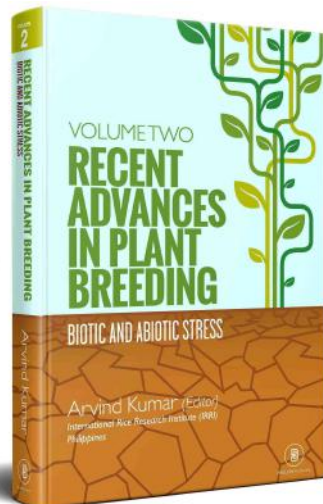
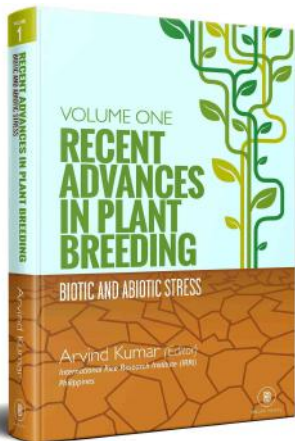




RECENT ADVANCES IN PLANT BREEDING

BIOTIC AND ABIOTIC STRESS
TWO VOLUME SET



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The use of biotechnology in incorporating abiotic stress tolerance in crop species depends on a better understanding of the physiology of stress tolerance, and the identification of specific genes determining tolerance to a specific stress. The complex inheritance of stress tolerance hinders the immediate impact of biotechnologists introducing any novel genes. However, molecular markers may well serve in manipulating quantitatively inherited traits of stress tolerance physiological processes such as source sink relationships, translocation, and interrelations between plant parts, water status, hormonal levels and balance are crucial in determining a plant's responses to stress. It is important to know the extent to which stress tolerance genes enhance the ability of adoption to stress, and whether they increase or decrease tolerance to stress. Abiotic stresses elevate levels of heat shock, cold or anaerobic response proteins for long periods but the question remains will expression of response proteins ahead of stress really protect plants. Breeding for stress tolerance is hampered by the breeders' capacity in selecting for stress tolerant.

Understanding abiotic stress factors such as temperature and drought tolerance and abiotic stress tolerance traits is an important factor on the crop productivity of crops. The present 2 volume book is an assemblage of scientific knowledge information which is written by eminent researchers in their respective fields. It describes related methods for the creation, selection and fixation of superior plants in the development of improved cultivars suited to the needs of growers and consumers. The present volumes will be highly useful for the researchers, agronomists, plant physiologists, biotechnologists and agriculturists to sustain the crop production.

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14. Allele Diversity for Abiotic Stress Responsive Candidate Genes in Chickpea Reference Set Using Gene Based SNP Markers
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 16. Subcellular Protein Overexpression to Develop Abiotic Stress Tolerant Plants
- ## VOLUME-2
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