

# Advance In Molecular Breeding Towards Salinity And Drought Tolerance

[DOWNLOAD HERE](#)

Preface: Section 1. Integrating determinants of drought and salt stress adaptation: Plant Diversity and Adaptation; 1. Plant growth and development under salinity stress.-2. Regulation of root growth responses to water deficit.- 3. Root growth response and functioning as an adaptation in water limiting soils.- 4.Regulating plant water status via stomatal control.- 5.Eco-physiological and molecular-genetic determinants of plant cuticle function in drought and salt stress tolerance.- Cellular and Molecular Responses; 6.Molecular and physiological responses to water-deficit stressy.- 7.Integration of Ca<sup>2+</sup> in plant drought and salt stress signal transduction pathways.- 8.Phospholipid signaling in plant response to drought and salt stress.- 9.Abscisic acid function in plant response and adaptation to drought and salt stress.- 10.Small RNAs: Big role in abiotic stress tolerance of plants.- Lessons from High-throughput Analyses; 11.Transcriptome analysis of plant drought and salt stress response.- 12.Comparative metabolome analysis of salt response in breeding cultivars of rice.- 13.Root signaling in response to drought and salinity.- Section 2. Molecular-breeding and biotechnology in the improvement of crop-plant drought and salt stress tolerance: Finding new genetic variation for drought and salt tolerance; 14.Biotechnology approaches to engineering drought tolerant crops.- 15.High throughput approaches for the identification of salt tolerance genes in plants.- 16.QTL and the positional cloning of genes for plant drought and salt tolerance.- 17.Induced mutations for enhancing salinity tolerance in rice.- Innovative breeding strategies; 18.Participatory breeding for drought and salt tolerant.- 19.Requirements for success in marker assisted breeding for drought-prone environments.- 20.Transgenic plants for dry and saline environments.- Section 3. Recent advances in breeding major crops for drought and saline stress tolerance: Cereals; 21.Breeding for Drought and Salt Tolerant Rice (*Oryza sativa* L.): Progress and Perspectives.- 22.Recent Advances in Breeding Wheat for Drought and Salt Stresses.- 23.Recent advances in breeding maize for drought and salinity stress tolerance.- 24.Recent advances in breeding barley for drought and saline stress tolerance.- Fruits and Vegetables; 25.Recent advances in breeding citrus for drought and saline stress tolerance.- 26.Integrating functional genomics with salinity and water

deficit stress responses in wine grape.-27.Current status of breeding tomatoes for salt and drought tolerance.- Miscellaneous crops; 28.Recent advances in molecular breeding of Cassava for improved drought stress tolerance.- 29.Recent advances in potato crops for drought and saline stress tolerance.- 30.Recent advances in breeding for drought and salt stress tolerance in soybean.- 31.Recent advances and future prospective in molecular breeding of cotton for drought and salinity stress tolerance.-32.Recent advances in molecular breeding of forage crops for improved drought and salt stress tolerance EAN/ISBN : 9781402055782 Publisher(s): Springer Netherlands Format: ePub/PDF Author(s): Jenks, Matthew A. - Hasegawa, Paul M. - Jain, S. Mohan

[DOWNLOAD HERE](#)

Similar manuals: