

| | |
|-------------------------|---|
| 1. Record Nr. | UNINA9910131528703321 |
| Autore | Mukesh Jain |
| Titolo | Abiotic Stress [[electronic resource]] : molecular genetics and genomics // topic editors: Mukesh Jain, Rohini Garg and Rajeev K. Varshney |
| Pubbl/distr/stampa | Frontiers Media SA, 2014 [Lausanne, Switzerland] : , : Frontiers Media SA, , 2014 ©2007-2014 |
| Descrizione fisica | a 1 online resource (101 pages) : illustrations; digital, PDF file(s) |
| Collana | Frontiers Research Topics Frontiers in Plant Science |
| Soggetti | Molecular genetics Plants, Cultivated - Genetics Botany - Molecular aspects Botany, Economic Crops, Agricultural - microbiology |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references. |
| Sommario/riassunto | Abiotic stresses are the major cause that limits productivity of crop plants worldwide. Plants have developed intricate machinery to respond and adapt over these adverse environmental conditions both at physiological and molecular levels. Due to increasing problems of abiotic stresses, plant biotechnologists and breeders need to employ new approaches to improve abiotic stress tolerance in crop plants. Although current research has divulged several key genes, gene regulatory networks and quantitative trait loci that mediate plant responses to various abiotic stresses, the comprehensive understanding of this complex trait is still not available. This topic is focused on molecular genetics and genomics approaches to understand the plant response/adaptation to various abiotic stresses. We welcome all types of articles (original research, method, opinion and review) that provide new insights into different aspects of plant responses and |

adaptation to abiotic stresses. Articles describing genome analysis to identify key candidate genes, regulatory network analysis, epigenetic regulation, discovery of novel genetic variations, QTL identification using linkage mapping and association mapping approaches, genetic engineering, molecular breeding and novel approaches for understanding and manipulation of abiotic stress response, are welcome.
