Google Drive



Abiotic Stress Responses in Plants: Metabolism, Productivity and Sustainability

Download now

Click here if your download doesn"t start automatically

Abiotic Stress Responses in Plants: Metabolism, Productivity and Sustainability

Abiotic Stress Responses in Plants: Metabolism, Productivity and Sustainability

Abiotic stress cause changes in soil-plant-atmosphere continuum and is responsible for reduced yield in several major crops. Therefore, the subject of abiotic stress response in plants - metabolism, productivity and sustainability - is gaining considerable significance in the contemporary world. Abiotic stress is an integral part of “climate change,” a complex phenomenon with a wide range of unpredictable impacts on the environment. Prolonged exposure to these abiotic stresses results in altered metabolism and damage to biomolecules. Plants evolve defense mechanisms to tolerate these stresses by upregulation of osmolytes, osmoprotectants, and enzymatic and non-enzymatic antioxidants, etc. This volume deals with abiotic stress-induced morphological and anatomical changes, abberations in metabolism, strategies and approaches to increase salt tolerance, managing the drought stress, sustainable fruit production and postharvest stress treatments, role of glutathione reductase, flavonoids as antioxidants in plants, the role of salicylic acid and trehalose in plants, stress-induced flowering. The role of soil organic matter in mineral nutrition and fatty acid profile in response to heavy metal stress are also dealt with. Proteomic markers for oxidative stress as a new tools for reactive oxygen species and photosynthesis research, abscisic acid signaling in plants are covered with chosen examples. Stress responsive genes and gene products including expressed proteins that are implicated in conferring tolerance to the plant are presented. Thus, this volume would provides the reader with a wide spectrum of information including key references and with a large number of illustrations and tables.

Dr. Parvaiz is Assistant Professor in Botany at A.S. College, Srinagar, Jammu and Kashmir, India. He has completed his post-graduation in Botany in 2000 from Jamia Hamdard New Delhi India. After his Ph.D from the Indian Institute of Technology (IIT) Delhi, India in 2007 he joined the International Centre for Genetic Engineering and Biotechnology, New Delhi. He has published more than 20 research papers in peer reviewed journals and 4 book chapters. He has also edited a volume which is in press with Studium Press Pvt. India Ltd., New Delhi, India. Dr. Parvaiz is actively engaged in studying the molecular and physio-biochemical responses of different plants (mulberry, pea, Indian mustard) under environmental stress.

Prof. M.N.V. Prasad is a Professor in the Department of Plant Sciences at the University of Hyderabad, India. He received B.Sc. (1973) and M.Sc. (1975) degrees from Andhra University, India, and the Ph.D. degree (1979) in botany from the University of Lucknow, India. Prasad has published 216 articles in peer reviewed journals and 82 book chapters and conference proceedings in the broad area of environmental botany and heavy metal stress in plants. He is the author, co-author, editor, or co-editor for eight books. He is the recipient of Pitamber Pant National Environment Fellowship of 2007 awarded by the Ministry of Environment and Forests, Government of India.

Download Abiotic Stress Responses in Plants: Metabolism, Pr ...pdf

Read Online Abiotic Stress Responses in Plants: Metabolism, ...pdf

Download and Read Free Online Abiotic Stress Responses in Plants: Metabolism, Productivity and Sustainability

---

From reader reviews:

Doris Geer:

Book is usually written, printed, or highlighted for everything. You can understand everything you want by a e-book. Book has a different type. As you may know that book is important point to bring us around the world. Close to that you can your reading talent was fluently. A book Abiotic Stress Responses in Plants: Metabolism, Productivity and Sustainability will make you to become smarter. You can feel more confidence if you can know about every thing. But some of you think this open or reading the book make you bored. It's not make you fun. Why they are often thought like that? Have you searching for best book or ideal book with you?

Laura Mason:

Reading a book tends to be new life style in this era globalization. With studying you can get a lot of information which will give you benefit in your life. Together with book everyone in this world may share their idea. Books can also inspire a lot of people. Plenty of author can inspire their particular reader with their story or their experience. Not only situation that share in the textbooks. But also they write about advantage about something that you need illustration. How to get the good score toefl, or how to teach your children, there are many kinds of book that you can get now. The authors in this world always try to improve their talent in writing, they also doing some research before they write for their book. One of them is this Abiotic Stress Responses in Plants: Metabolism, Productivity and Sustainability.

Kimberly Foley:

Abiotic Stress Responses in Plants: Metabolism, Productivity and Sustainability can be one of your starter books that are good idea. All of us recommend that straight away because this publication has good vocabulary which could increase your knowledge in vocab, easy to understand, bit entertaining but delivering the information. The article author giving his/her effort to set every word into delight arrangement in writing Abiotic Stress Responses in Plants: Metabolism, Productivity and Sustainability although doesn't forget the main point, giving the reader the hottest along with based confirm resource details that maybe you can be among it. This great information could drawn you into new stage of crucial pondering.

Sandra Fritz:

Is it an individual who having spare time subsequently spend it whole day through watching television programs or just laying on the bed? Do you need something new? This Abiotic Stress Responses in Plants: Metabolism, Productivity and Sustainability can be the reply, oh how comes? It's a book you know. You are thus out of date, spending your spare time by reading in this brand new era is common not a geek activity. So what these publications have than the others?

Download and Read Online Abiotic Stress Responses in Plants: Metabolism, Productivity and Sustainability #6KHIVRT0A93

Read Abiotic Stress Responses in Plants: Metabolism, Productivity and Sustainability for online ebook

Abiotic Stress Responses in Plants: Metabolism, Productivity and Sustainability Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Abiotic Stress Responses in Plants: Metabolism, Productivity and Sustainability books to read online.

Online Abiotic Stress Responses in Plants: Metabolism, Productivity and Sustainability ebook PDF download

Abiotic Stress Responses in Plants: Metabolism, Productivity and Sustainability Doc

Abiotic Stress Responses in Plants: Metabolism, Productivity and Sustainability Mobipocket

Abiotic Stress Responses in Plants: Metabolism, Productivity and Sustainability EPub