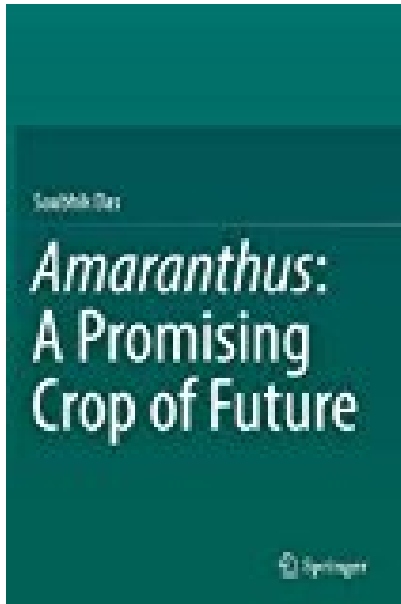


Amaranthus A Promising Crop of Future



BOOK DETAILS

- Author : Saubhik Das
- Pages : 208 Pages
- Publisher : Springer
- Language : English
- ISBN : 981101468X

 DOWNLOAD

BOOK SYNOPSIS

This book serves the larger community of plant researchers working on the taxonomy, species delimitation, phylogeny, and biogeography of pseudo-cereals, with a special emphasis on amaranths. It also provides extensive information on the nutritive value of underutilized pseudo-cereals, the goal being to broaden the vegetable list. *Amaranthus* is a cosmopolitan genus of annual or short-lived perennial plants. Most of the species are summer annual weeds and are commonly referred to as pigweed. Only a few are cultivated as vitamin-rich vegetables and ornamentals. The protein-rich seeds of a handful of species, known as grain amaranths, are consumed as pseudo-cereals. *Amaranthus* manifests considerable morphological diversity among and even within certain species, and there is no general agreement on the taxonomy or number of species. Currently the genus *Amaranthus* is believed to include three recognized subgenera and 70 species. *Amaranthus* is considered to potentially offer an alternative crop in temperate and tropical climate. The classification of amaranths is ambiguous due to the lack of discrete and quantitative species-defining characteristics and the wide range of phenotypic plasticity, as well as introgression and hybridization involving weedy and crop species. It is a known fact that both vegetable and grain amaranths have evolved from their respective weed progenitors. There are more than 180 different weed species that are herbicide-resistant, and amaranths are considered to be leading members of the resistant biotypes. Amaranth species provide ample scope for investigating herbicide resistance mechanisms. Amaranths also show variability in terms of their mating behavior and germplasm, adaptability to different growing conditions, and wide range of variability in sexual systems, from monoecy to dioecy. A solid grasp of these parameters is essential to the future utilization of amaranths as super crops. There are quite a few amaranth research center and germplasm collections all over the world that maintain and evaluate working germplasms. To date, the genetic improvement of amaranths has primarily involved the application of conventional selection methods. But advances in genomics and biotechnology have dramatically enriched the potential to manipulate the amaranth genome, especially improving the amount and availability of nutrients. In conclusion, the book covers all aspects of amaranths, including their food value, significance as vegetables and pseudo-cereals, taxonomy, phylogeny, germplasm variability, breeding behavior and strategies, cultivation practices, and variability in terms of their sexual systems. It offers a valuable resource for all students, researchers and experts working in the field of plant taxonomy and diversity.

AMARANTHUS A PROMISING CROP OF FUTURE - Are you looking for Ebook Amaranthus A Promising Crop Of Future? You will be glad to know that right now Amaranthus A Promising Crop Of Future is available on our online library. With our online resources, you can find Applied Numerical Methods With Matlab Solution Manual 3rd Edition or just about any type of ebooks, for any type of product. Best of all, they are entirely free to find, use and download, so there is no cost or stress at all. Amaranthus A Promising Crop Of Future may not make exciting reading, but Applied Numerical Methods With Matlab Solution Manual 3rd Edition is packed with valuable instructions, information and warnings. We also have many ebooks and user guide is also related with Amaranthus A Promising Crop Of Future and many other ebooks.

We have made it easy for you to find a PDF Ebooks without any digging. And by having access to our ebooks online or by storing it on your computer, you have convenient answers with Amaranthus A Promising Crop Of Future. To get started finding Amaranthus A Promising Crop Of Future, you are right to find our website which has a comprehensive collection of manuals listed.