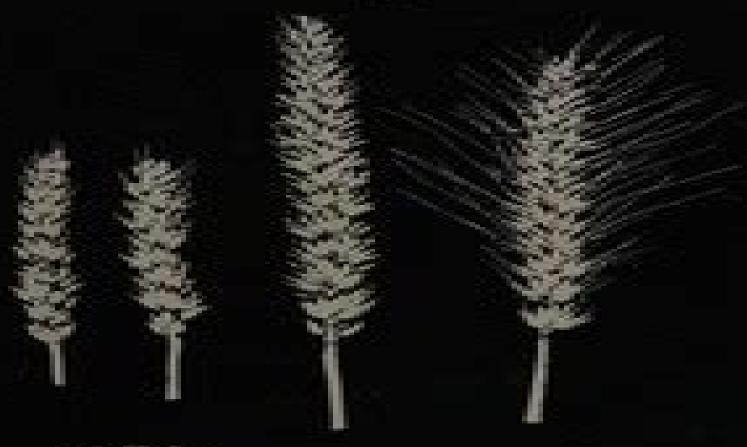
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Peter Georgiev Savov





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Genomics of Plant Genetic Resources Roberto Tuberosa, Andreas Graner, Emile Frison, 2013-11-08 Our lives and well being intimately depend on the exploitation of the plant genetic resources available to our breeding programs Therefore more extensive exploration and effective exploitation of plant genetic resources are essential prerequisites for the release of improved cultivars Accordingly the remarkable progress in genomics approaches and more recently in sequencing and bioinformatics offers unprecedented opportunities for mining germplasm collections mapping and cloning loci of interest identifying novel alleles and deploying them for breeding purposes This book collects 48 highly interdisciplinary articles describing how genomics improves our capacity to characterize and harness natural and artificially induced variation in order to boost crop productivity and provide consumers with high quality food This book will be an invaluable reference for all those interested in managing mining and harnessing the genetic richness of plant genetic resources Agriculture ,1972-05 Research Awards Index ,1977 **Induced Mutation Breeding** Subodh Kumar Datta, 2023-05-24 The book is an excellent reference collection of the research conducted by different workers on induced mutagenesis worldwide for more than 80 years One can get almost all mutation breeding references at one place The book gives a coherent and concise account of all the important and relevant aspects related to induced mutagenesis with an emphasis on recent developments in the field of crop improvement. The references have been arranged crop wise and important topic wise which deal with not only classical mutation breeding but also spontaneous mutations somaclonal variations nanoparticles and relevant modern aspects The book highlights 22 chapters covering holistic information on almost all important components such as radiosensitivity chromosomal and morphological abnormalities detection of mutation management of chimera present status of mutation etc of Mutation Breeding Chapters are very informative and one can follow the references on crop and aspect basis since the start of mutation breeding work This book is an excellent resource for researchers and students for understanding proper applications of induced mutations in crop improvement and biological research It is of interest and useful to graduate and postgraduate students horticulturists floriculturists agricultural scientists and breeders related to crop improvement program Genome Editing for Crop Improvement Jameel M. Al-Khayri, Muhammad N. Sattar, Sudhir K. Sopory, Shri Mohan Jain, 2025-03-25 Genome editing offers a powerful tool to significantly accelerate crop breeding programs in order to develop new and improved varieties It allows precise modification of an organism s DNA sequence often by

creating targeted double strand breaks at specific locations The CRISPR Cas system has emerged as the preferred method of gene editing and offers a powerful technology for crop improvement The use of CRISPR in plant research has led to significant improvements in crop performance in terms of yield nutrition stress tolerance and resistance against agricultural pests and diseases This book explores the cutting edge field of genome editing its applications and potential to revolutionize the genetic improvement of crops This is a valuable resource for researchers in crop genetic improvement graduate and postgraduate students in molecular biology and biotechnology programs and professionals in the field *Agrindex* ,1993

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