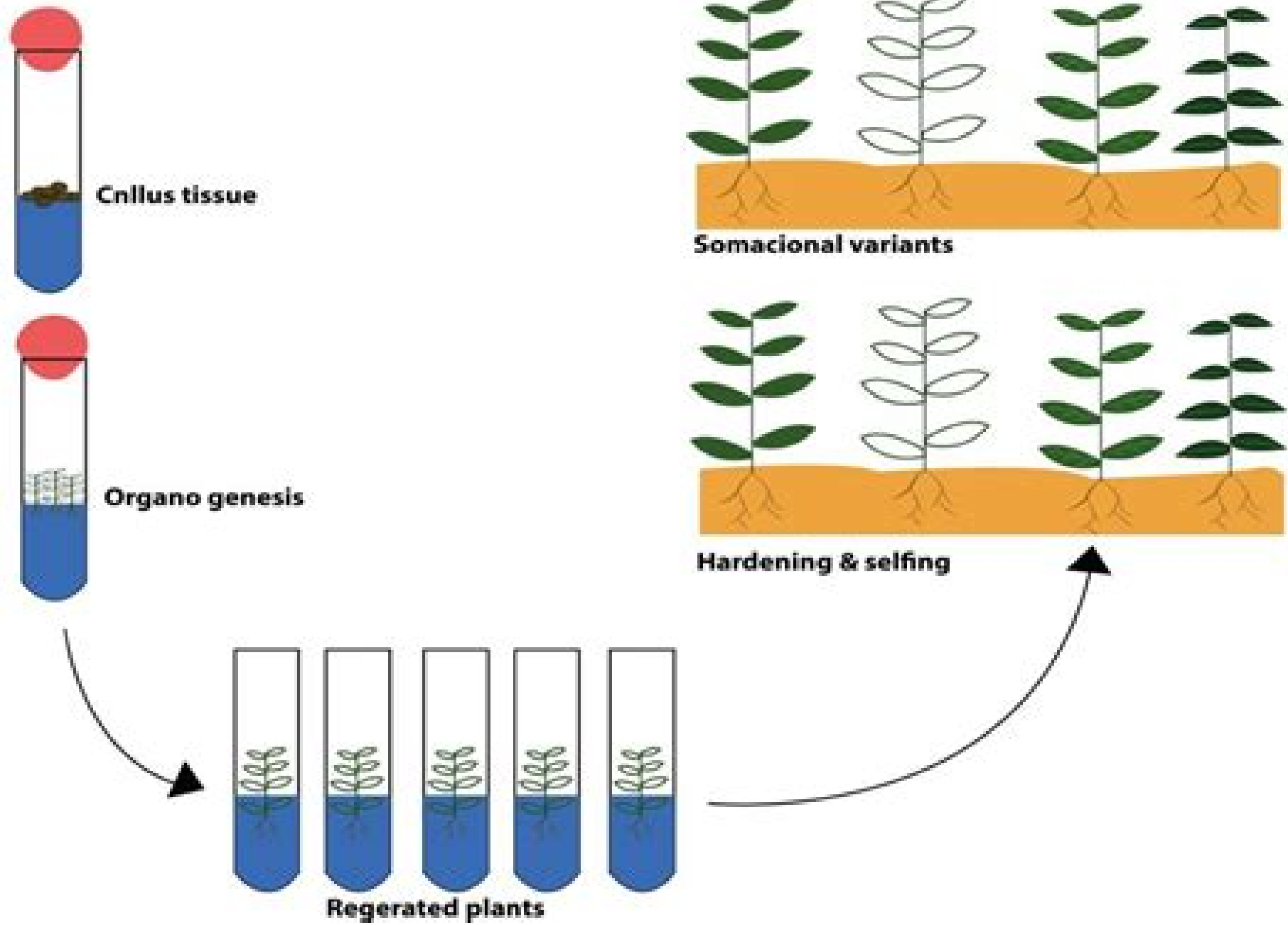


Somaclonal Variation



Somaclonal Variation And Induced Mutation In Crop Improvement

S.M. Jain,D.S. Brar,B.S. Ahloowalia



Somaclonal Variation And Induced Mutation In Crop Improvement:

Somaclonal Variation and Induced Mutations in Crop Improvement S.M. Jain,D.S. Brar,B.S. Ahloowalia,1998-05-31

Genetic variability is an important parameter for plant breeders in any conventional crop improvement programme. Very often the desired variation is unavailable in the right combination or simply does not exist at all. However, plant breeders have successfully recombined the desired genes from cultivated crop germplasm and related wild species by sexual hybridization and have been able to develop new cultivars with desirable agronomic traits such as high yield, disease, pest and drought resistance. So far, conventional breeding methods have managed to feed the world's ever growing population. Continued population growth, no further scope of expanding arable land, soil degradation, environmental pollution and global warming are causes of concern to plant biologists and planners. Plant breeders are under continuous pressure to improve and develop new cultivars for sustainable food production. However, it takes several years to develop a new cultivar. Therefore, they have to look for new technologies which could be combined with conventional methods to create more genetic variability and reduce the time in developing new cultivars with early maturity and improved yield. The first report on induced mutation of a gene by H.J. Muller in 1927 was a major milestone in enhancing variation and also indicated the potential applications of mutagenesis in plant improvement. Radiation sources such as X-rays, gamma rays and fast neutrons and chemical mutagens e.g. ethyl methane sulphonate have been widely used to induce mutations.

Somaclonal Variation and Induced Mutations in Crop Improvement S.M. Jain,D.S. Brar,B.S. Ahloowalia,2013-03-14

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Mutagenesis, Cytotoxicity and Crop Improvement Tariq Ahmad Bhat,2021-01-11

Induced mutagenesis is a common and promising method for the screening of new crops with improved

production methods and has made a tremendous contribution to crop improvement. Now as the techniques of molecular biology become more widely adopted by plant breeders, this comprehensive summary sets mutation breeding within a contemporary context and relates it to other breeding techniques. This book opens a new chapter of inducing mutations at the gene level and details techniques that can be used to harvest and exploit such mutation to improve the productivity of crops, particularly cereals, grains, and vegetables. The chapters within this volume are supported by diagrams, tables, and graphs to make the content more comprehensible. The book will be extremely useful for advanced undergraduates, graduates, postgraduate students, and research scientists of botany, agriculture, horticulture, genetics, biotechnology, biochemistry, and agronomy.

Plant Mutagenesis and Crop Improvement Nitish Kumar, 2024-02-23. Crop improvement using classically induced mutagenesis is now well standardized. Many new promising varieties of different crops have been successfully developed worldwide using both physical and chemical mutagens. Voluminous literature is now available on basic and applied aspects of mutagenesis. The mutation technique has been refined and holds the promise of generating much wider and more desirable variability than classical breeding. Recent advances in technology combined with classical mutation breeding offer new and exciting challenges for the development of new varieties. A global inventory of induced mutagenesis activities for crop improvement is required. This book covers both basic and applied aspects of mutation and its impact on various crops. It is extremely well prepared and contains a huge volume of information accumulated using classically induced mutagenesis on different crops in different countries. Three key features: Describes the importance of induced mutation in crop plant research and its application to production. Highlights new advances in the understanding of plant mutagenesis in crop improvement. Contains contributions from major leaders in the field of plant mutation research. This volume brings together all the important and relevant literature in the field. It provides a complete account of the mutation breeding of crops, presenting conclusions about the value of the method, its possibilities, limitations, and shortcomings, and the possible difficulties of further application in various crops. The initial chapters deal with the interactions between mutagenic treatment and plant material, such as aspects of mutagenic treatment, postirradiation behavior of shoot apices, and adventitious bud techniques. All available literature is then discussed crop by crop and critically evaluated. This will serve as an extremely comprehensive guide for researchers, teachers, students, and individuals who are interested in using induced mutagenesis as a tool for crop improvement.

Plant Tissue Culture and Molecular Markers Ashwani Kumar, N. S. Shekhawat, 2009. Plant tissue culture techniques help in understanding basic life processes, which is essential to improving crop productivity. Furthermore, recently molecular biology has assumed great importance with respect to plant biotechnology. This book combines all three aspects into one, with a focus on practical applications of various techniques. It discusses micropropagation studies on several crop plants, the molecular basis of understanding various life processes, including the molecular basis of somatic embryogenesis and other physiological and biochemical processes having significant biotechnological applications. It also covers in vitro

studies of certain important plants like Aloe vera Simmondsia chinensis Anacyclus pyrethrum and Crataeva nurvala Arachis hypogaea L Phoenix dactylifera Dendrocalamus asper Asparagus adscendens Roxb natural products of plant origin with their therapeutic potential and biotechnological production as well as genome analysis of crop plants with future applications in biotechnology *Biotechnologies of Crop Improvement, Volume 1* Satbir Singh Gosal, Shabir Hussain Wani, 2018-06-22

During the past 15 years cellular and molecular approaches have emerged as valuable adjuncts to supplement and complement conventional breeding methods for a wide variety of crop plants Biotechnology increasingly plays a role in the creation conservation characterization and utilization of genetic variability for germplasm enhancement For instance anther microspore culture somaclonal variation embryo culture and somatic hybridization are being exploited for obtaining incremental improvement in the existing cultivars In addition genes that confer insect and disease resistance abiotic stress tolerance herbicide tolerance and quality traits have been isolated and re introduced into otherwise sensitive or susceptible species by a variety of transgenic techniques Together these transformative methodologies grant access to a greater repertoire of genetic diversity as the genes may come from viruses bacteria fungi insects animals human beings unrelated plants or even be artificially derived Remarkable achievements have been made in the production characterization field evaluation and commercialization of transgenic crop varieties worldwide Likewise significant advances have been made towards increasing crop yields improving nutritional quality enabling crops to be raised under adverse conditions and developing resistance to pests and diseases for sustaining global food and nutritional security The overarching purpose of this 3 volume work is to summarize the history of crop improvement from a technological perspective but to do so with a forward outlook on further advancement and adaptability to a changing world Our carefully chosen case studies of important plant crops intend to serve a diverse spectrum of audience looking for the right tools to tackle complicated local and global issues In Vitro Application in Crop Improvement A Mujib, 2004-01-04 Covers research achievements in the fields of developmental biology physiology and pathology Chapters discuss sericulture techniques cocoons dormancy and hormones clones the apple biting silkworm the sable mutation separation of male and female eggs and genetic engineering An appendix explains the technical terminology Numerous illustrations 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

Omics Approach to Manage Abiotic Stress in Cereals Aryadeep Roychoudhury, Tariq Aftab, Krishnendu Acharya, 2022-05-30 The edited book highlights various emerging Omics tools and techniques that are currently being used in the analysis of responses to different abiotic stress in agronomically important cereals and their applications in enhancing tolerance mechanism Plants are severely challenged by diverse abiotic stress factors such as low water availability drought excess water flooding waterlogging extremes of temperatures cold chilling frost and heat salinity mineral deficiency and heavy metal toxicity Agronomically important cereal crops like Rice Wheat Maize Sorghum Pearl Millet Barley Oats Rye Foxtail Millets etc that are the major sources of food material and nutritional components for human health are mostly exposed to abiotic stresses during the critical phases of flowering and grain yield Different Omics platforms like genomics transcriptomics proteomics metabolomics and phenomics in conjunction with breeding and transgenic technology and high throughput technologies like next generation sequencing epigenomics genome editing and CRISPR Cas technology have emerged altogether in understanding abiotic stress response and strengthening defense and tolerance mechanism of different cereals This book is beneficial to different universities and research institutes working with different cereal crops in the areas of stress physiology stress associated genes and proteins genomics proteomics genetic engineering and other fields of molecular plant physiology The book can also be used as advanced textbook for the course work of research and master s level students It will be of use to people involved in ecological studies and sustainable agriculture The proposed book bring together the global leaders working on environmental stress in different cereal crops and motivate scientists to explore new horizons in the relevant areas of research

Advanced Crop Improvement, Volume 1 Aamir Raina, Mohammad Rafiq Wani, Rafiul Amin Laskar, Nasya Tomlekova, Samiullah Khan, 2023-08-01 As per the reports of FAO the human population will rise to 9 billion by the end of 2050 and 70% of more food must be produced over the next three decades to feed the additional population The breeding approaches for crop improvement programs are dependent on the availability and accessibility of genetic variation either spontaneous or induced by the mutagens Plant breeders agronomists and geneticists are under constant pressure to expand food production by employing innovative breeding strategies to enhance yield adaptability nutrition resistance to biotic and abiotic stresses In conventional breeding approaches introgression of genes in crop varieties is laborious and time consuming Nowadays new innovative plant breeding techniques such as molecular breeding and plant biotechnology supplement the traditional breeding approaches to achieve the desired goals of enhanced food production With the advent of recent molecular tools like genomics transgenics molecular marker

assisted back crossing TILLING Eco TILLING gene editing CRISPR CAS non targeted protein abundant comparative proteomics genome wide association studies have made possible mapping of important QTLs insertion of transgenes reduction of linkage drags and manipulation of genome In general conventional and modern plant breeding approaches would be strategically ideal for developing new elite crop varieties to meet the feeding requirement of the increasing world population This book highlights the latest progress in the field of plant breeding and their applicability in crop improvement The basic concept of this 2 volume work is to assess the use of modern breeding strategies in supplementing conventional breeding toward the development of elite crop varieties for obtaining desired goals of food production

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Table of Contents Somaclonal Variation And Induced Mutation In Crop Improvement

1. Understanding the eBook Somaclonal Variation And Induced Mutation In Crop Improvement
 - The Rise of Digital Reading Somaclonal Variation And Induced Mutation In Crop Improvement
 - Advantages of eBooks Over Traditional Books
2. Identifying Somaclonal Variation And Induced Mutation In Crop Improvement
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Somaclonal Variation And Induced Mutation In Crop Improvement
 - User-Friendly Interface
4. Exploring eBook Recommendations from Somaclonal Variation And Induced Mutation In Crop Improvement
 - Personalized Recommendations
 - Somaclonal Variation And Induced Mutation In Crop Improvement User Reviews and Ratings
 - Somaclonal Variation And Induced Mutation In Crop Improvement and Bestseller Lists

5. Accessing Somaclonal Variation And Induced Mutation In Crop Improvement Free and Paid eBooks
 - Somaclonal Variation And Induced Mutation In Crop Improvement Public Domain eBooks
 - Somaclonal Variation And Induced Mutation In Crop Improvement eBook Subscription Services
 - Somaclonal Variation And Induced Mutation In Crop Improvement Budget-Friendly Options
6. Navigating Somaclonal Variation And Induced Mutation In Crop Improvement eBook Formats
 - ePub, PDF, MOBI, and More
 - Somaclonal Variation And Induced Mutation In Crop Improvement Compatibility with Devices
 - Somaclonal Variation And Induced Mutation In Crop Improvement Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Somaclonal Variation And Induced Mutation In Crop Improvement
 - Highlighting and Note-Taking Somaclonal Variation And Induced Mutation In Crop Improvement
 - Interactive Elements Somaclonal Variation And Induced Mutation In Crop Improvement
8. Staying Engaged with Somaclonal Variation And Induced Mutation In Crop Improvement
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Somaclonal Variation And Induced Mutation In Crop Improvement
9. Balancing eBooks and Physical Books Somaclonal Variation And Induced Mutation In Crop Improvement
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Somaclonal Variation And Induced Mutation In Crop Improvement
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Somaclonal Variation And Induced Mutation In Crop Improvement
 - Setting Reading Goals Somaclonal Variation And Induced Mutation In Crop Improvement
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Somaclonal Variation And Induced Mutation In Crop Improvement
 - Fact-Checking eBook Content of Somaclonal Variation And Induced Mutation In Crop Improvement
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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