

Mutations, *In Vitro* and Molecular Techniques for Environmentally Sustainable Crop Improvement

Edited by M. Maluszynski and K.J. Kasha

Springer-Science+Business Media, B.V.

Mutations In Vitro And Molecular Techniques For Environmentally Sustainable Crop Improvement

**Food and Agriculture Organization of
the United Nations**



Mutations In Vitro And Molecular Techniques For Environmentally Sustainable Crop Improvement:

Mutations, In Vitro and Molecular Techniques for Environmentally Sustainable Crop Improvement M.

Maluszynski,Kenneth Kasha,2013-03-09 During the last thirty years most increases in agricultural production were achieved through high input agriculture in areas with fertile soils and sufficient water Intensive methods of production with high levels of nitrogen fertilizer and pesticides were often accompanied by environmental degradation and in some instances by pollution of the food supply However rapid population growth has also led to increasing use of marginal lands where adverse soil and climatic conditions are serious constraints to food production These areas are even more sensitive to ecological destabilization Environmentally sound systems of food production and land use are essential for meeting the food security needs of developing countries To do this greater genetic variability is needed within the best crop genotypes available for the areas in need coupled with better management practices and crop rotations These requirements can only be realized if suitable crop varieties are bred These should be varieties with a much shorter growing period suitable for rotation increased tolerance or resistance to diseases and pests as well as to drought and salinity and other adverse soil and climatic conditions

Manual on MUTATION BREEDING THIRD EDITION Food and Agriculture Organization of the United Nations,2018-10-09

This paper provides guidelines for new high throughput screening methods both phenotypic and genotypic to enable the detection of rare mutant traits and reviews techniques for increasing the efficiency of crop mutation breeding **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 **Somaclonal Variation and**

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

Sesame Dorothea Bedigian, 2010-10-14 The first comprehensive review of sesame and its close relative Sesame the genus *Sesamum* covers ethnographic data modern use linguistic analysis of sesame names from around the world market size export and import data geographical sources use in the food and cosmetic industries and much more The book includes a historical review of the genus

Mitigating Environmental Stresses for Agricultural Sustainability in Egypt Hassan Awaad, Mohamed Abu-hashim, Abdelazim Negm, 2021-02-08 This book focuses on the soil and environmental resources and how to utilize them under Egyptian conditions to achieve tolerance to environmental abiotic stresses i.e. drought heat salt pollutants and biotic stresses such as disease resistance Further it explores ways to increase productivity improve the quality of field crops and reduce the food gap The application of modern technologies is an essential mechanism for improving crops productivity through laser seed technology mycorrhiza and biotechnology to enhance the yield of genotypes in sustainable farming systems Therefore this book discusses fundamental ways to increase productivity under various environmental circumstances The book reflects the enormous potential held by horizontal expansion in the newly reclaimed lands in Egypt Tapping that potential depends on developing crops that are highly tolerant to environmental stresses and mitigating the impacts of climate changes around the world to help Egypt and countries with similar weather and water deficits achieve the 2030 sustainability agenda for agriculture Given its profundity and scope the book offers a valuable asset for stakeholders policy planners decision makers researchers and scientists in Egypt and worldwide

Date Palm Biotechnology Shri Mohan Jain, Jameel M. Al-Khayri, Dennis V. Johnson, 2011-08-13 This important reference book is the first comprehensive resource worldwide that reflects research achievements in date palm biotechnology documenting research events during the last four decades current status and future outlook This book is essential for researchers policy makers and commercial entrepreneurs concerned with date palm The book is invaluable for date palm biotechnology students and specialists This monument is written by an international team of experienced

researchers from both academia and industry It consists of five sections covering all aspects of date palm biotechnology including A Micropropagation B Somaclonal Variation Mutation and Selection C Germplasm Biodiversity and Conservation D Genetics and Genetic Improvement and E Metabolites and Industrial Biotechnology The book brings together the principles and practices of contemporary date palm biotechnology Each chapter contains background knowledge related to the topic followed by a comprehensive literature review of research methodology and results including the authors own experience including illustrative tables and photographs

Plant Mutagenesis Nitish Kumar, 2024-04-22 This book emphasizes recent developments in the use of mutation technologies for crop plant improvement and ultimately sustainable development Plant breeders use genetic variation which is created by plant induced mutation to create new and improved cultivars The development of improved cultivars is a productive and optimistic agricultural strategy for economic and environmental sustainability since it ensures high yield stability enhances soil health and poses no environmental risks Understanding mutation induction and exploring its uses have paved the road for improving genetic diversity for different plants and agronomic features and advanced gene discovery for diverse qualities that aid in sustainable development Plant mutation breeding imitates spontaneous mutation the primary force driving evolution by using a plant s own genetic resources instead of genetic transformation In order to develop beneficial agricultural features this strategy focuses on the application of various chemical and physical mutagens in conjunction with biotechnologies In order to survive in challenging environments increase nutritional value fight diseases and pests grow in salty soils and utilize water and nutrients more effectively new varieties of plants are developed This approach has significantly boosted the economies of nations like China India Japan Pakistan and the USA As of right now the strategy has produced and disseminated more than 3600 mutant types in the majority of crop plants having a significant economic impact This book discusses several mutation induction techniques mutant screening genome editing the haploid breeding system for mutations as well as genomic developments and mutant gene identification Plant breeders researchers and students in the fields of plant sciences agriculture and food science will find this instructive book to be of great help

Oil Crop Genomics Huseyin Tombuloglu, Turgay Unver, Guzin Tombuloglu, Khalid Rehman Hakeem, 2021-09-20

Plants are an important source of fats and oils which are essential for the human diet In recent years genomics of oil biosynthesis in plants have attracted great interest especially in high oil bearing plants such as sesame olive sunflower and palm Considering that genome sequencing projects of these plants have been undertaken with the help of advanced genomics tools such as next generation sequencing Several genome sequencing projects of oil crops are in progress and many others are en route In addition to genome information advanced genomics approaches are discussed such as transcriptomics genomics assisted breeding genome wide association study GWAS genotyping by sequencing GBS and CRISPR These have all improved our understanding of the oil biosynthesis mechanism and breeding strategies for oil production There is however no book that covers the genomes and genomics of oil crops For

this reason in this volume we collected the most recent knowledge of oil crop genomics for researchers who study oil crop genomes genomics biotechnology pharmacology and medicine This book covers all genome sequenced oil crops as well as the plants producing important oil metabolites Throughout this book the latest genomics developments and discoveries are highlighted as well as open problems and future challenges in oil crop genomics In doing so we have covered the state of the art of developments and trends of oil crop genomics

Cereal Research Communications ,2004 *Improvement of New and Traditional Industrial Crops by Induced Mutations and Related Biotechnology* International Atomic Energy Agency,2003

Use o induced mutations and biotechnology to tailor industrial crops for new crop rotations and quality improvement Genetic modification of oil crops for optimisation of oil quality regarding industrial uses Biotechnology trends in oilseed in the USA Cotton biotechnology Improved earliness of two locally adapted cotton cultivars by induced mutations Development of improved germplasm of cotton through radiation and DNA mediated embryo transformation technique evaluation and confirmation of novel genotypes Varietal improvement of cotton *Gossypium hirsutum* through mutation breeding Soybean breeding for earliness and seed quality by induced mutations Combining radiation mutation techniques with biotechnology for soybean breeding Domestication of *Oenothera* as a new oil plant Breeding and genetic engineering of *Cuphea* and meadowfoam A procedure to minimize the linkage frag in backcross breeding of rapeseed *Brassica napus* through irradiation Improvement of rapeseed and mustard by induced mutations and in vitro techniques Modification of flax *Linum usitatissimum* by induced mutageneses and transformation Use of biotechnology in flax germplasm development Mutation breeding in sunflower *Helianthus annuus* L for disease resistance and oil content International Atomic Energy Agency Publications International Atomic Energy Agency,1980 **International Atomic Energy Agency Publications: Catalogue** International Atomic Energy Agency,1986 **The British National Bibliography** Arthur James Wells,2002

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