

DEVELOPMENTS IN PLANT BREEDING

THE METHODOLOGY OF PLANT GENETIC MANIPULATION: CRITERIA FOR DECISION MAKING

ALAN C. CASSELLS AND PETER W. JONES (EDS.)

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Methodology Of Plant Genetic Manipulation Criteria For Decision Making

Michael Hoelscher



Methodology Of Plant Genetic Manipulation Criteria For Decision Making:

The Methodology of Plant Genetic Manipulation: Criteria for Decision Making Alan C. Cassells, Peter Jones, 2012-12-06 A range of novel techniques is available to the plant breeder today to complement classical breeding methods. The new options are based on the integration of advances in plant cell biology with those in plant molecular biology. Plant cell tissue and organ cultures provide efficient systems for transformation for the achievement of wide crosses and for the production of variation through spontaneous and induced mutation while permitting effective isolation of desired genotypes by in vitro selection. This book presents a critical appraisal of the methodologies of plant genetic manipulation for advanced undergraduates, postgraduates, researchers and plant breeders and provides guidance on the choice of breeding options. The latter depends on the breeding system of the crop, the breeding objective and the tissue culture systems applicable to the target genotype.

The Methodology of Plant Genetic Manipulation A. C. Cassells, Peter W. Jones, 1995 **Trends in Plant Biotechnology** Siddra Ijaz, Imran Ul Haq, Hayssam Mohamed Ali, 2024-06-12 This book explains the advancements of plant biotechnology and advanced molecular biology and explores the details of influential tools that complement conventional breeding and accelerate the development of plants resilient to adverse agroclimatic conditions and biofortified plants. Plant biotechnology from the basic sciences to current applications such as pathway engineering, precursor feeding, transformation, elicitation with biotic and abiotic elicitors and scaling up in bioreactors have been included in these chapters to improve the production of secondary metabolites from different medicinal plants. It also highlights important factors often overlooked by methodologies used to develop plants tolerance against biotic and abiotic stresses and in developing special foods, biochemicals and pharmaceuticals. This book is valuable for researchers or students working on biosciences. It is also an updated and advanced reference material for the agriculture and pharmaceutical industries.

Molecular Breeding of Forage Crops German Spangenberg, 2013-04-17 Forage plant breeding has entered the genome era. This timely book reviews the latest advances in the development and application of molecular technologies which supplement conventional breeding efforts for our major forage crops. It describes the plethora of new technologies and tools now available for high throughput gene discovery, genome wide gene expression analysis, production of transgenic plants, genome analysis and marker assisted selection as applied to forage plants. Detailed accounts are presented of current and future opportunities for innovative applications of these molecular tools and technologies in the identification, functional characterisation and use of valuable genes in forage production systems and beyond. This book represents a valuable resource for plant breeders, geneticists and molecular biologists and will be of particular relevance to advanced undergraduates, postgraduates and researchers with an interest in forage legumes and grasses.

Genetics and Breeding for Crop Quality and Resistance G.T. Scarascia Mugnozza, E. Porceddu, M.A. Pagnotta, 2012-12-06 The book highlights the state of research in plant genetics and breeding and the results and applications of biotechnology procedures, i.e. achievements and perspectives of molecular biology and

genetic engineering in the improvement of quantitative qualitative and nutritional characters of crops including their resistance to pests and diseases and their adaptation to different ecosystems The book is divided into seven chapters The first six are focused on the research aimed at improvement of resistance to Fungi Bacteria Nematode Virus and Insect and improvement of Quality The latter was assigned two keynote lectures respectively on agro food quality and on quality of wood plants Each chapter begins with a keynote paper The seventh chapter includes the special lectures which opened and closed the Congress

Reproductive Ecology of Flowering Plants: Patterns and Processes Rajesh Tandon, K. R. Shivanna, Monika Koul, 2020-08-07 Sexual reproduction is the predominant mode of perpetuation for flowering plant species Investigating the reproductive strategies of plants has grown to become a vast area of research and in crop plants covers events from flowering to fruit and seed development in wild species it extends up to seed dispersal and seedling recruitment Thus reproduction determines the extent of yield in crop plants and in wild plants also determines the efficacy of recruiting new adults to the population making this field important both from fundamental and applied plant biology perspectives Moreover in light of the growing concerns regarding food and nutritional security for the growing population and preserving biological diversity reproductive biology of flowering plants has acquired special significance Extensive studies on various facets of reproduction are being carried out around the world However these studies are scattered across research journals and reviews from diverse areas of biology The present volume covers the whole spectrum of reproductive ecology from phenology and floral biology to sexuality and pollination biology ecology including floral rewards breeding systems apomixis and seed dispersal In turn transgene flow its biosafety and mitigation approaches and the global pollinator crisis which has become a major international concern in light of the urgent need to sustain crop yield and biodiversity are discussed in detail Given its scope the book offers a valuable resource for students teachers and researchers of botany zoology ecology agriculture and forestry as well as conservation biologists

Agronomic Crops Mirza Hasanuzzaman, 2020-03-09 Agronomic crops have been a source of foods beverages fodders fuels medicines and industrial raw materials since the dawn of human civilization Over time these crops have come to be cultivated using scientific methods instead of traditional methods However in the era of climate change agronomic crops are increasingly subjected to various environmental stresses which results in substantial yield loss To meet the food demands of the ever increasing global population new technologies and management practices are being adopted to boost yield and maintain productivity under both normal and adverse conditions To promote the sustainable production of agronomic crops scientists are currently exploring a range of approaches which include varietal development soil management nutrient and water management pest management etc Researchers have also made remarkable progress in developing stress tolerance in crops through various approaches However finding solutions to meet the growing food demands remains a challenge Although there are several research publications on the above mentioned problems there are virtually no comprehensive books addressing all of the recent topics Accordingly this book which covers

all aspects of production technologies management practices and stress tolerance of agronomic crops in a single source offers a highly topical guide

Stress Biology in Photosynthetic Organisms Arun Kumar Mishra, 2024-06-01 This book explores the intricate mechanisms underlying the stress responses of phototrophs which play a critical and foundational role in shaping and sustaining life on Earth The photoautotrophic entities encounter a spectrum of natural and anthropogenic stresses inducing a multitude of responses at the physiological biochemical genetic and developmental levels The comprehension of how these phototrophs adeptly counter stressors transcends mere scientific pursuit it stands as an essential endeavor for predicting their adaptability in an ever evolving world and crucially for conserving our delicate ecosystems The book will shed light on the sophisticated interplay of stress signaling pathways and the nuanced engagement of stress responsive hormones within these life forms Furthermore it unveils the cryptic genetic and epigenetic controls dictating stress related gene expression yielding profound insights into the enduring recollection of their responses to environmental challenges This book is an essential read for researchers educators and students alike It offers a comprehensive panorama of stress biology unveiling the innermost mechanisms at play within photosynthetic organisms discussing their resilience and adaptation

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

Gene Drives at Tipping Points Arnim von Gleich, Winfried Schröder, 2020-01-01 This open access book reports on a pilot project aiming at collecting information on the socio ecological risks that could arise in the event of an uncontrolled spread of genetically engineered organisms into the environment The researchers will for instance be taking a closer look at genetically engineered oilseed rape genetically engineered olive flies as well as plants and animals with so called gene drives

The book mainly addresses researchers *Genes, Genomes and Society* Röbbbe Wünschiers, 2021-11-30 With CRISPR Cas gene editing tools in hand we are currently experiencing a new dimension in genetic engineering But where should the journey lead Should we treat diseases or better repair them genetically Will the new genetic engineering combined with modern reproductive biology lead to designer babies And May we allow a liberalization of these techniques as citizen science New methods can precisely alter the genetic material and they leave no traces This gene and genome surgery thrives on increasing knowledge about the mode of action of genes those trait giving regions in the genome This knowledge is being applied in practice particularly in the breeding of more resistant and higher yielding crops And what about us The author shows that gene variants have long been associated not only with diseases but also with nutritional preferences or intelligence Therapeutic and optimization options are close at hand What effect does the environment have on the expression of genetic material Genes can be shaped during a person s lifetime by the environment nutrition or experiences and thus passed on to their offspring in a modified form So does society have a new form of long term responsibility for epi genetic integrity In this vividly and comprehensibly written book the author explains the state of genetic engineering without assuming too much prior knowledge and invites an open dialogue on this ambivalent topic Get your own idea of the fascinating yet intimidating possibilities of genetic engineering Where do you stand on the issue With the help of this book you have the chance to form a differentiated opinion This book is a translation of the original German 1st edition *Generation Gen Schere* by R bbe W nschiers published by Springer Fachmedien Wiesbaden GmbH part of Springer Nature in 2019 The translation was done with the help of artificial intelligence machine translation by the service DeepL com The text was subsequently revised by the author Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors Wheat in a Global Environment Z. Bedo, L. Láng, 2013-06-29 Wheat breeders have achieved significant results over the last fifty years in research on mankind s one of the most important crops Classical genetic and breeding methods far broader international cooperation than was experienced in earlier periods and improvements in agronomic techniques have led to previously unimaginable development in the utilisation of wheat for human consumption The contribution of wheat researchers is particularly noteworthy since these results have been achieved at a time when the world population has grown extremely dynamically Despite this demographic explosion of a proportion never previously experienced thousands of millions of people have been saved from starvation thus avoiding unpredictable social consequences and situations irreconcilable with human dignity Despite these developments in many regions of the world food supplies are still uncertain and the increase in the world s wheat production has not kept pace with the population increase during the last decade Due to the evils of civilisation and the pollution of the environment there is a constant decline in the per capita area of land suitable for agricultural production Based on population estimates for 2030 the present wheat yield of around 600 million tonnes will have to be increased to almost 1000

million tonnes if food supplies are to be maintained at the present level

Molecular Breeding of Forage and Turf

Andrew Hopkins,Zeng-Yu Wang,Rouf Mian,Mary Sledge,Reed E. Barker,2006-04-11 Forage and turf are the backbone of sustainable agriculture and contribute extensively to the world economy The fast paced advancement of cellular and molecular biology provides novel methods to accelerate or complement conventional breeding efforts This book contains the most comprehensive reviews on the latest development in applications of molecular techniques for the improvement of forage grasses forage legumes and turf grasses Detailed accounts and future opportunities in molecular breeding of forage and turf from gene discovery to development of improved cultivars are described in the book Almost all relevant areas are explored in detail including tolerance to biotic and abiotic stresses flowering control plant symbiont relations breeding for animal human and environmental welfare molecular markers transgenics bioinformatics population genetics genomics of the model legume *M. truncatula* field testing and risk assessment as well as intellectual property rights This book will be of interest to researchers in both academia and industry who are involved in forage and turf improvement It will be especially important to breeders molecular biologists geneticists physiologists and agronomists

Citrus Muhammad Sarwar

Khan,Iqar Ahmad Khan,2021-11-03 Citrus is an extensively produced fruit crop and is cultivated predominantly in tropical and subtropical regions of the world The Citrus genus consists of a variable number of species due to the admixture of wide morphological diversity intra and interspecific sexual compatibility apomixis and spontaneous mutations Citrus fruits are highly nutritious and beneficial for health due to the presence of bioactive compounds that have antioxidant antitumor anti inflammatory and blood clot inhibiting characteristics This book describes the citrus plant and its nutrients nutritional value and nutraceutical applications as well as related biotic and abiotic challenges in its cultivation Chapters cover such topics as citrus genealogy production and crop management milestones achieved in citrus improvement importance of weather conditions in cropping systems effects of changing climate on citrus and much more

Biosafety of Genetically Modified

Organisms, Volume II Andrew F. Roberts,Joerg Romeis,Karen Hokanson,Reynaldo Ariel Alvarez Morales,2020-10-27 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact

Brachiaria John W. Miles,Brigitte L. Maass,Cacilda Borges Valle,1996 Identifying and naming Brachiaria species Morphology taxonomy and natural distribution of Brachiaria Trin Griseb Natural variation in Brachiaria and existing germplasm collections The agronomy and physiology of Brachiaria species National requirements of Brachiaria and adaptation to acid soils Nutrient cycling and environmental impact of Brachiaria Pastures Pests and diseases of Brachiaria

species Nutritional quality and animal production of Brachiaria pastures Reproductive physiology seed production and seed quality of Brachiaria Seed production perspective from the Brazilian private sector Genetic cytogenetics and reproductive biology of Brachiaria Manipulation of apomixis in Brachiaria breeding Theoretical potential of biotechniques in crop improvement Application of biotechnology to Brachiaria Regional experience with Brachiaria Tropical America humid lowlands Regional experience with Brachiaria Tropical America savannas Regional experience with Brachiaria Sub savannas Africa Regional experience with Brachiaria Asia the South Pacific and Australia Reports of working groups **Biotechnologies of Crop Improvement, Volume 2** Satbir Singh Gosal, Shabir Hussain Wani, 2018-07-09 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 *Acta Physiologiae Plantarum* ,1978

Achieving sustainable cultivation of temperate zone tree fruits and berries Volume 2 Prof. Gregory A. Lang, 2019-06-30 Brings together some of the world's leading experts on the breeding and cultivation of particular fruits Comprehensive coverage of key stone pome and berry fruits Reviews key advances across the value chain for particular crops that collectively optimise sustainable production **Instant Insights: Optimising rootstock health** Dr Francisco Pérez-Alfocea, Dr Stephen Yeboah, Dr Ian C. Dodd, Dugald C. Close, Sally A. Bound, Dr Gennaro Fazio, Dr Terence Robinson, Dr Jayeni Hiti-Bandaralage, Dr Alice Hayward, Dr Chris O'Brien, Dr Madeleine Gleeson, Dr William Nak, Dr Neena Mitter, Dr Danielle Guzman, Dr Amit Dhingra, 2023-09-19 This collection features five peer reviewed reviews on optimising rootstock health The first chapter explores optimising rootstock health to improve root function resource use efficiency sustainability

and agricultural productivity The chapter also presents a case study on tomato rootstocks as a viable strategy to overcome abiotic stresses in Ghana The second chapter reviews the important aspects of tree growth and development in apple production which are integral to ensure product quality The chapter discusses the importance of rootstocks and emphasises the mechanisms and morphological effects of dwarfing on rootstocks The third chapter considers recent advances in the development and utilisation of fruit tree rootstocks focussing primarily on apples The chapter also reviews rootstock tolerance to both abiotic and biotic stresses The fourth chapter discusses advances in avocado tissue culture for clonal propagation and highlights the potential of this technology for improving the sustainable supply of high quality avocado plants to support future avocado industry growth The final chapter addresses the challenges and opportunities in pear breeding focussing on pear cultivars pear rootstocks and germplasm resources The chapter also considers the use of dwarfing as a means of improving particular traits

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