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Molecular Techniques in Crop Improvement

2nd Edition



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Molecular Techniques In Crop Improvement 2nd Edition

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Molecular Techniques In Crop Improvement 2nd Edition:

Molecular Techniques in Crop Improvement Shri Mohan Jain,D.S. Brar,2002-04-30 This book provides comprehensive information on the latest tools and techniques of molecular genetics and their applications in crop improvement It thoroughly discusses advanced techniques used in molecular markers QTL mapping marker assisted breeding and molecular cytogenetics

Molecular Techniques in Crop Improvement Shri Mohan Jain,D.S. Brar,2009-11-05 This book provides comprehensive information on the latest tools and techniques of molecular genetics and their applications in crop improvement It thoroughly discusses advanced techniques used in molecular markers QTL mapping marker assisted breeding and molecular cytogenetics

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

Regulating Next Generation Agri-Food Biotechnologies Michael Howlett,David Laycock,2013-05-07 Agri food bio technology policy and regulation is transitioning from an early period focused on genetic engineering technologies to next generation rules and regulatory processes linked to challenges originating in a wide variety of new technological processes and applications Can lessons learned from past and current regulatory oversights of agricultural biotechnology and other high technology sectors help us address new and emerging regulatory challenges in the agri food genetics sector The expert contributors in this volume discuss the

experiences of a wide range of North American European and Asian countries with high technology regulation to address four key questions related to the past and future development of agri food genomics regulation across the globe how unique is agri food biotechnology regulation and how can it be evaluated using the existing tools of regulatory analysis developed in examinations of other sectors is a government to governance model of regulatory regime development found in many other sectors relevant in this rapidly evolving sphere of activity is a stages model of regulatory regime development accurate And if so at which stage are we currently positioned in the regulation of agri food genomics products and technologies what drives movement between stages in different countries and sectors In assessing such drivers what are the key links between sectoral meso developments and more general macro and micro developments such as international relations and administrative behaviour By updating extending and challenging earlier empirical and theoretical social science perspectives on agricultural bio technological regulation this volume helps to inform future policy formulation It will be of interest to practitioners and students of biotechnology agriculture and science and technology policy and regulatory processes more generally

More Food: Road to Survival Roberto Pilu ,Giuseppe Gavazzi,2017-06-16 More Food Road to Survival is a comprehensive analysis of agricultural improvements which can be achieved through scientific methods This reference book gives information about strategies for increasing plant productivity comparisons of agricultural models the role of epigenetic events on crop production yield enhancing physiological events photosynthesis germination seedling emergence seed properties etc tools enabling efficient exploration of genetic variability domestication of new species the detection or induction of drought resistance and apomixes and plant breeding enhancement through molecularly assisted breeding genetic engineering genome editing and next generation sequencing The book concludes with a case study for the improvement of small grain cereals Readers will gain an understanding of the biotechnological tools and concepts central to sustainable agriculture More Food Road to Survival is therefore an ideal reference for agriculture students and researchers as well as professionals involved sustainability studies

Unraveling New Frontiers and Advances in Bioinformatics Amit Chaudhary,Sushanta K. Sethi,Akarsh Verma,2024-09-21 This book describes the bioinformatics research field from its historical roots to the cutting edge technologies Many readers can discover the power of next generation sequencing and genomic data analysis uncover the secrets of single cell genomics and transcriptomics explore the metagenomics and microbiome analysis and predict the protein structures using structural bioinformatics Several case studies witnessing the fusion of bioinformatics and artificial intelligence driving insights from vast biological datasets have also been explored Other important aspects listed in the book are integrating the omics data for a holistic view of biological systems experiencing the future of medicine with precision healthcare and personalized treatments accelerating drug discovery and repurposing through computational approaches agricultural genomics and exploring the role of immunoinformatics in designing effective vaccines against infectious diseases

Advanced Molecular Plant Breeding D.N. Bharadwaj,2018-10-29 This new volume

provides a better understanding of molecular plant breeding in order to boost the quality of agriculture produce to increase crop yields and to provide nutritious food for everyone by 2050 Scientists believe the challenge can be met by implementing new and improved techniques of quantitative trait inheritance in plant breeding Integrating genomics and molecular biology into appropriate tools and methodologies can help to create genetically engineered plants such as by using biotic and abiotic stress tolerance molecular markers omics technology and genome editing

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Designing Sorghum Genome for NextGen Agriculture Dinesh Kumar Saini, S.V. Krishna Jagadish, 2025-09-30 With increasing global food demand and changing climatic conditions sorghum is an important crop for sustainable agriculture Its inherent resilience to drought heat and poor soils makes it a promising solution for enhancing food security and climate adaptation To further harness its potential Designing Sorghum Genome for NextGen Agriculture authored by leading researchers and experts explores the latest advancements aimed at improving sorghum s resilience and productivity This comprehensive resource provides cutting edge insights into how modern scientific tools and methods are being leveraged to design the sorghum genome for enhanced yield stress tolerance and nutritional value This book takes a multidisciplinary approach integrating diverse strategies to enhance sorghum s resilience It highlights current achievements and outlines future directions to harness sorghum s genetic potential as a climate resilient crop for next generation agriculture Key Features Examines sorghum s global agricultural significance and its role in addressing future climatic challenges Covers genomics pan genomics mutagenesis and targeted gene editing for sorghum improvement Highlights physiological molecular and microbiome based strategies to enhance sorghum s abiotic stress tolerance Explores the synergy between genomic selection and phenomics for accelerated genetic gain Discusses omics approaches and systems biology for advancing sorghum research Showcases artificial intelligence and crop simulation modeling as tools for sorghum breeding for enhanced stress tolerance and yield potential This book serves as a valuable resource for researchers breeders agronomists and students working in sorghum genetics genomics crop improvement and sustainable agriculture By bridging fundamental research with translational breeding strategies it offers a forward looking perspective on leveraging genomics

for the future of sorghum production *Sustainable Agriculture and New Biotechnologies* Nouredine Benkeblia,2016-04-19 Taking a broad and innovative informational approach Sustainable Agriculture and New Biotechnologies is the first book to apply omic technologies to address issues related to understanding and improving agricultural sustainability in the food production process The transformation from industrial to sustainable agriculture is discussed within the **Biotechnology in Agriculture and Food Processing** Parmjit S. Panesar,Satwinder S. Marwaha,2013-07-23 An instructive and comprehensive overview of the use of biotechnology in agriculture and food production Biotechnology in Agriculture and Food Processing Opportunities and Challenges discusses how biotechnology can improve the quality and productivity of agriculture and food products It includes current topics such as GM foods enzymes and prod **Biological and Pharmacological Properties of the Genus Moringa** J. Basilio Heredia,Erick P. Gutierrez-Grijalva,2021-12-01 There is an increasing interest in plants of the Moringa genus used as a source of phytochemicals with biopharmaceutical potential as a functional ingredient in many products and as an additive in poultry feeding stocks Biological and Pharmacological Properties of the Genus Moringa is the first publication to comprehensively assess the latest research on Moringa studies This book reviews recent studies covering the botanical agronomical genomic biotechnological and ethnopharmacological aspects It presents specialized work in a user friendly way that will appeal to undergraduates graduates and researchers primarily in ethnopharmacology functional foods and with a linkage to veterinary treatments Key Features Describes the ethnopharmacological and ethnobotanical use of plants from all Moringa species Presents recent information that will be helpful for the future development of biopharmaceuticals Reviews the phytochemical content from all Moringa species Assesses the potential of all Moringa species as a functional ingredient **Mutagenesis: exploring genetic diversity of crops** N.B. Tomlekova,M.I. Kozgar,M.R. Wani,2023-09-04 In the present era various international organizations such as FAO UNO IAEA FNCA etc have unanimously agreed that millions of people in both developing and developed countries are not only facing a shortage of food but also non availability of nutrients The main reason put forward by these agencies is that there is less genetic diversity prevalent in the major crops which has been further diminished since the inception of conventional plant breeding Since the first decade of the last century the mutation breeding approach has been pivotal in enhancing the genetic diversity of crops thereby enriching the genetic pool Mutagenesis exploring genetic diversity of crops describes the latest achievements in mutation breeding with a particular focus on the development of novel mutant varieties and F1 hybrids of crops highly superior to the parental ones The book details experimental as well as literary studies of induced mutagenesis and its role in developing the new potent varieties The book will be useful for agricultural policy making authorities in countries of agricultural importance scientific researchers breeders teachers and students keen to use mutation breeding and to explore its hidden potential to secure food and nutrient availability for the growing world population **Plant Breeding Reviews, Volume 39** Jules Janick,2015-08-24 Plant

Breeding Reviews presents state of the art reviews on plant genetics and the breeding of all types of crops by both traditional means and molecular methods Many of the crops widely grown today stem from a very narrow genetic base understanding and preserving crop genetic resources is vital to the security of food systems worldwide The emphasis of the series is on methodology a fundamental understanding of crop genetics and applications to major crops It is a serial title that appears in the form of one or two volumes per year

Molecular Genetics, Genomics and Biotechnology of Crop Plants Breeding Søren K. Rasmussen, 2020-05-27 This Special Issue on molecular genetics genomics and biotechnology in crop plant breeding seeks to encourage the use of the tools currently available It features nine research papers that address quality traits grain yield and mutations by exploring cytoplasmic male sterility the delicate control of flowering in rice the removal of anti nutritional factors the use and development of new technologies for non model species marker technology site directed mutagenesis and GMO regulation genomics selection and genome wide association studies how to cope with abiotic stress and an exploration of fruit trees adapted to harsh environments for breeding purposes A further four papers review the genetics of pre harvest spouting readiness for climate smart crop development genomic selection in the breeding of cereal crops and the large numbers of mutants in straw lignin biosynthesis and deposition

The Role of Salicylic Acid and Nitric Oxide in Plant Heat Response Krishna Kumar Rai, 2023-09-19 This book explores the intricate world of plant signaling by unraveling the synergistic roles of salicylic acid and nitric oxide in plant adaptation This captivating exploration illuminates the pivotal roles of salicylic acid SA and nitric oxide NO as master regulators of plant responses to changing environmental dynamics SA a phenolic maestro wields its mastery in steering metabolic pathways stimulating plants tolerance against abiotic stresses Meanwhile the enigmatic nitrogen monoxide NO emerges as a redox regulator modulating growth and physiology amid high temperature stress NO s role as a second messenger resonates through physiological processes igniting antioxidant defenses modulating osmolyte levels and harmonizing stress responsive genes This volume seeks to highlight the covert alliance between SA and NO more specifically their potential collaboration in alleviating high temperature induced oxidative stress The book offers basic yet enchanting voyage into the nexus of plant adaptation

Plant metabolomics in full swing, 2021-01-24 Plant Metabolics Volume 98 the latest release in the Advances in Botanical Research series highlights new advances in the field with this new volume presenting interesting chapters on a variety of intriguing topics including Developmental metabolomics to decipher and improve fleshy fruit quality Specialized metabolites in seeds Untangling plant immune responses through metabolomics Plant metabolomics to the benefit of crop protection and growth stimulation Metabolomics in plant microbe interactions in the roots A practical guide to implementing metabolomics in plant ecology and biodiversity research Plant metabolomics and breeding Plant genome scale metabolic networks Metabolite imaging by mass spectrometry A new discovery tool MS and NMR metabolomic tools for the discrimination of wines Applications for authenticity Provides the authority and expertise of leading contributors from an

international board of authors Presents the latest release in the Advances in Botanical Research series Updated release includes the latest information on the Plant Metabolics **Crop Improvement and Mutation Breeding** A.K.

Sharma,Ramavtar Sharma,2014-01-01 The main objective of this book is to bring all the research activities of mutation breeding in one umbrella *Capsicum* Orarat Mongkolporn,2018-08-14 *Capsicum* more commonly as chili or chili pepper is an important global vegetable and spice crop Anthracnose disease caused by a complex of *Colletotrichum* species is the major biotic stress limiting chili production in tropical and subtropical countries Anthracnose disease mainly manifests itself as a post harvest disease resulting in large necrotic lesions on the fruit This disease is mainly controlled by the application of a cocktail of fungicides as commercial resistant cultivars are not available In recent years insights into the complexity of the pathogen and the genomics of the host have been accomplished using cutting edge molecular technologies The author has been at the forefront of this technology revolution in *Capsicum* breeding through her research to understand the host and pathogen which has led to the development of new anthracnose resistant genotypes *Capsicum* Breeding Strategies for Anthracnose Resistance is structured based on a review of the origin and evolution of *Capsicum* *Capsicum* genetic diversity and germplasm resources the latest research in the biology and taxonomy of *Colletotrichum* pathogens of *Capsicum* and the classic and molecular breeding for resistance in *Capsicum* to the suite of *Colletotrichum* pathogens that infect *Capsicum* globally This book brings together knowledge on both the pathogen and the host which is often overlooked when reviewing the breeding and genetics of a crop plant It informs the facts behind breeding for resistance from both the host and pathogen perspectives *Achieving sustainable cultivation of coffee* Dr Philippe Lashermes,2018-01-09 Covers recent research on coffee genetics physiology and genetic diversity Reviews the latest developments in breeding new varieties Assesses advances in measuring and understanding the chemical composition and nutraceutical properties of coffee

Enjoying the Track of Phrase: An Psychological Symphony within **Molecular Techniques In Crop Improvement 2nd Edition**

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