

# **Cytogenetics And Genetics Of Groundnuts**

Rajeev K. Varshney, Manish K. Pandey, Naveen Puppala

#### **Cytogenetics And Genetics Of Groundnuts:**

**Cytogenetics and Genetics of Groundnuts** T. G. K. Murthy, P. S. Reddy, 1993 This work covers the fundamental and applied aspects of genetics and cytogenetics of cultivated groundnut and wild relatives It gives an updated insight into the genetics of characters of basic and economic value The role of in vitro culture in groundnut improvement is also discussed

The Peanut Genome Rajeev K. Varshney, Manish K. Pandey, Naveen Puppala, 2017-12-16 This book presents the current state of the art in peanut genomics focusing particularly on the latest genomic findings tools and strategies employed in genome sequencing transcriptomes and analysis availability of public and private genomic resources and ways to maximize the use of this information in peanut breeding programs Further it demonstrates how advances in plant genomics can be used to improve crop breeding The peanut or groundnut Arachis hypogaea L Millsp is a globally important grain legume and oilseed crop cultivated in over 100 countries and consumed in the form of roasted seeds oil and confectionary in nearly every country on Earth The peanut contributes towards achieving food and nutritional security in addition to financial security through income generation as such it is also vital to the livelihood of the poor in the developing world There have been significant advances in peanut research especially in the last five years including sequencing the genome of both diploid progenitors and the availability of tremendous transcriptome resources large scale genomic variations that can be used as genetic markers genetic populations bi and multiparent populations and germplasm sets marker trait associations and molecular breeding products The immediate availability of the genome sequence for tetraploid cultivated peanuts is the most essential genomic resource for achieving a deeper understanding of peanut traits and their use in breeding programs

Gene Pool Diversity and Crop Improvement Vijay Rani Rajpal,S. Rama Rao,S.N. Raina,2016-02-02 The world population is estimated to reach to more than 10 billion by the year 2050 These projections pose a challenging situation for the agricultural scientists to increase crops productivity to meet the growing food demands The unavailability and or inaccessibility to appropriate gene pools with desired traits required to carry out genetic improvement of various crop species make this task formidable for the plant breeders Incidentally most of the desired genes reside in the wild genetic relatives of the crop species Therefore exploration and characterization of wild genetic resources of important crop species is vital for the efficient utilization of these gene pools for sustainable genetic improvements to assure food security Further understanding the myriad complexities of genic and genomic interactions among species more particularly of wild relatives of crop species and or phylogenetically distant germplasm can provide the necessary inputs to increase the effectiveness of genetic improvement through traditional and or genetic engineering methods This book provides comprehensive and latest insights on the evolutionary genesis of diversity access and its utilization in the evolution of various crop species A comprehensive account of various crops origin exploitation of the primary secondary and tertiary gene pools through breeding biosystematical cytogenetical and molecular phylogenetical relationships and genetic enhancement through

biotechnological interventions among others have been provided as the necessary underpinnings to consolidate information on the effective and sustainable utilization of the related genetic resources. The book stresses upon the importance of wild germplasm exploration characterization and exploitation in the assimilation of important crop species. The book is especially intended for students and scientists working on the genetic improvement of crop species. Plant Breeders Geneticists. Taxonomists Molecular Biologists and Plant Biotechnologists working on crop species are going to find this book very useful.

Genetics, Genomics and Breeding of Peanuts Nalini Mallikarjuna, Rajeev K. Varshney, 2014-05-15 Peanut an amphidiploid is an important food and oil crop and has an interesting evolutionary history. This book provides a glimpse of the advances in genetic resources and genomics research of peanut made during the last decade It contains an overview of germplasm advances in genetic and genomic resources genetic and trait mapping proteomic and transcriptomic analyses functional and comparative genomics studies and molecular breeding applications This book should prove useful to students teachers and young researchers as a ready reference to the latest information on peanut genetics and genomics **Cytogenetics** P. K. Genetic Resources, Chromosome Engineering, and Crop Improvement Ram J. Singh, 2006-11-02 Gupta,2007 Summarizing landmark research Volume 4 of this essential series furnishes information on the availability of germplasm resources that breeders can exploit for producing high yielding oilseed crop varieties Written by leading international experts this volume presents the most up to date information on employing genetic resources to increas Agronomy, 1995-11-14 With eight outstanding reviews on cutting edge advances in the crop and soil sciences this volume emphasizes environmental quality and biotechnology The connections between agricultural practice and environmental impact are addressed in chapters on sewage sludge dissolved organic matter and metals and pyrolysis mass spectrometry of soil organic matter Also among this collection are reviews on USDA's plant genome project DNA markers and peanut genetics and breeding With this latest volume Advances in Agronomy continues to be recognized as a prolific and first rate reference by the scientific community In 1993 Advances in Agronomy increased its publication frequency to three volumes per year and will continue this trend as the breadth of agronomic inquiry and knowledge continues to grow Key Features Synchrotron X ray techniques USDA plant genome program Pyrolysis mass spectrometric analysis of soil organic matter Dissolved organic carbon and metal sorption by soils DNA markers in plant breeding Sewage sludge amended agricultural land Peanut breeding and genetics GIS in agricultural systems Genetics, Cytogenetics and Breeding of Crop Plants P. N. Bahl, P. M. Salimath, 1996 This text focuses on the genetics cytogenetics and breeding of crop plants It covers crops such as Advances in Agronomy Donald L. Sparks, 2003-08-19 Advances in Agronomy rice chickpea piegeonpea and lentil continues to be recognized as a leading reference and a first rate source of the latest research in agronomy Major reviews deal with the current topics of interest to agronomists as well as crop and soil scientists As always the subjects covered are varied and exemplary of the myriad subject matter dealt with by this long running serial Editor Donald Sparks former

president of the Soil Science Society of America and current president of the International Union of Soil Science is the S Hallock du Pont Chair of Plant and Soil Sciences at The University of Delaware Maintains the highest impact factor among serial publications in Agriculture Presents timely reviews on important agronomy issues Enjoys a long standing reputation for excellence in the field Genetic and Genomic Resources of Grain Legume Improvement Mohar Singh, Hari D. Upadhyaya, I. S. Bisht, 2013-07-18 Grain legumes including common bean chickpea pigeonpea pea cowpea lentil and others form important constituents of global diets both vegetarian and non vegetarian Despite this significant role global production has increased only marginally in the past 50 years The slow production growth along with a rising human population and improved buying capacity has substantially reduced the per capita availability of food legumes Changes in environmental climate have also had significant impact on production creating a need to identify stable donors among genetic resources for environmentally robust genes and designing crops resilient to climate change Genetic and Genomic Resources of Grain Legume Improvement is the first book to bring together the latest resources in plant genetics and genomics to facilitate the identification of specific germplasm trait mapping and allele mining to more effectively develop biotic and abiotic stress resistant grains This book will be an invaluable resource for researchers crop biologists and students working with crop development Explores origin distribution and diversity of grain legumes Presents information on germplasm collection evaluation and maintenance Offers insight into pre breeding germplasm enhancement efforts Integrates genomic and genetic resources in crop improvement Internationally contributed work The Indian Journal of Genetics & Plant Breeding ,2008 The Groundnut Crop J. Smartt, 2012-12-06 Groundnuts peanuts are of great economic importance internationally. This book provides thorough coverage of all aspects of the crop each chapter being written by experts in particular areas The book will be invaluable to all those involved with the group particularly agronomists plant scientists and food scientists **Genetic Engineering of Crop** Plants for Food and Health Security Siddharth Tiwari, Bhupendra Koul, 2024-07-13 This edited volume presents recent advancements in genetic transformation and genome editing offering a comprehensive understanding of their applications for creating more sustainable crops These innovations are revolutionizing crop development enhancing yields and mitigating environmental challenges The demand for sustainable crop production driven by a growing global population and mounting environmental challenges has never been more pressing Genetic transformation and genome editing techniques offer precise and targeted ways to enhance crop traits increase yields and reduce the need for chemical inputs The book traces the evolution of these technologies from the early days of genetic modification to the current era of CRISPR based genome editing It covers cutting edge technologies from CRISPR Cas9 to advanced gene editing techniques while discussing the current scenario and future prospects of GM crops developed either by transgenic or genome editing approaches The book explores the ethical and regulatory aspects surrounding genetic transformation providing a complete perspective on this evolving domain It is an essential read for researchers students and professionals in the fields of agriculture plant sciences

biotechnology agronomy as well as policymakers Plant Breeding Reviews, Volume 22 Jules Janick, 2003-03-05 Plant Breeding Reviews Volume 22 presents state of the art reviews on plant genetics and the breeding of all types of crops by both traditional means and molecular methods The emphasis of the series is on methodology a practical understanding of crop **Applied Genetics of Leguminosae Biotechnology** Pawan K. Jaiwal, Rana P. genetics and applications to major crops Singh, 2013-06-29 Legumes include many very important crop plants that contribute very critical protein to the diets of both humans and animals around the world Their unique ability to fix atmospheric nitrogen in association with Rhizobia enriches soil fertility and establishes the importance of their niche in agriculture Divided into two volumes this work presents an up to date analysis of in vitro and recombinant DNA technologies for the improvement of grain forage and tree legumes Volume 10B presents the current state and future prospects of in vitro regeneration and genetic transformation expression and stability of transgenes modification of traits in almost all the important legumes for example soybean peanut pea french bean chick pea pigeon pea cowpea mung bean black gram azuki bean lentil Lathyrus lupinus Lotus spp Medicago spp Trifolium spp Winged bean Guar and tree legumes for their improvement **Biology and Agronomy of Forage Arachis** Peter Campbell Kerridge, Bill Hardy, 1994 Accelerated Plant Breeding, Volume 4 Satbir Singh Gosal, Shabir Hussain Wani,2022-01-03 Plant improvement has shifted its focus from yield quality and disease resistance to factors that will enhance commercial export such as early maturity shelf life and better processing quality Conventional plant breeding methods aiming at the improvement of a self pollinating crop usually take 10 12 years to develop and release of the new variety During the past 10 years significant advances have been made and accelerated methods have been developed for precision breeding and early release of crop varieties. This book focuses on the accelerated breeding technologies that have been adopted for major oil crops It summarizes concepts dealing with germplasm enhancement and development of improved varieties based on innovative methodologies that include doubled haploidy marker assisted selection marker assisted background selection genetic mapping genomic selection high throughput genotyping high throughput phenotyping mutation breeding reverse breeding transgenic breeding shuttle breeding speed breeding low cost high throughput field phenotyping etc This edited volume is therefore an excellent reference on accelerated development of improved crop varieties

Broadening the Genetic Base of Grain Legumes Mohar Singh, Ishwari Singh Bisht, Manoranjan Dutta, 2014-10-28 Grain legumes play significant and diverse role in the farming systems and provide nutrition security to the largely vegetarian and relatively poorer people around the world These are ideal crops for achieving three simultaneous developmental goals viz reducing poverty improving human health and nutrition and enhancing ecosystem resilience Globally grain legumes are the second most important crop group next only to cereals but a large proportion of area of it is under rainfed low input systems as compared to cereals contributing to lower yields The other important factor responsible for reduced yield in grain legumes is the narrow genetic base of the present day pulse varieties In order to break the yield barriers of these cultivars new

sources of genes alleles need to be identified and suitably incorporated into the adapted background The information on various aspects of grain legume improvement although has been considerable in the recent past these information are highly scattered and not available at one place The present book consists of comprehensive and latest crop wise information on important grain legumes of the world including their distribution gene pool systematics status of genetic and genomic resources production constraints traits of importance crop improvement methodologies both conventional as well as contemporary and future strategies to be adopted for comprehensive grain legume improvement in various agro ecological target areas of the globe The chapters have been contributed by eminent crop experts from across the world engaged in research in their respective crops for the past several years thus providing a rare insight into the crop specific constraints and prospects drawing from their rich overall experience The book therefore will be a useful source of information to the grain legume researchers students policy planners and developmental experts alike

The Use of Plant Genetic Resources

A. H. D. Brown,1989-02-02 This 1989 volume stresses the way in which the pool of plant genetic resources provides vital raw material for producing new and improved crops

Genetic Improvement of Groundnut T. Ramanathan,2001 With special reference to India

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