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Descripteurs pour l'arachide
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Sorghum Descriptors
Sorghum and Pearl Millet as Climate Resilient Crops for Food and Nutrition Security
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ICRISAT Annual Report

BEARD PAOLA

Biotechnological Applications of Biodiversity John Wiley & Sons

Continuing the international tradition of *Advances in Agronomy*, Volume 48 highlights crop and soil science including hybrid improvement in tropical maize, pearl millet as food, feed and forage, cotton host plant resistance to insects, and electrochemical techniques applied to soils. This volume should be of interest to researchers and students in agronomy. Key Features * Maize, pearl millet, and cotton crops * Reactions and availability of nickel in soils * Electrochemical techniques for soil analysis

ICRISAT Chickpea Germplasm Catalog CRC Press

Breeding Sorghum for Diverse End Uses is a comprehensive overview of all significant global efforts for the genetic improvement of sorghum, a major crop of many semi-arid nations that is suitable for a huge range of uses, from human food, to biofuels. Split into two main sections, the book initially reviews the genetic suitability of sorghum for breeding, also providing the history of the genetic improvement of the grain. Finally, other sections look at specific breeding programs that could be improved in a number of areas, including human food, animal feed and industrial usage. Readers in academics, research, plant genetics and sorghum development will find this resource of great value. In addition, it is essential reading for engineers who utilize sorghum for food, feed and industrial materials in industry. Provides information on key advances in the genetic makeup of sorghum Allows plant breeders to apply this research to effectively breed new strains of sorghum that are dependent on final usage goals Includes the latest findings in each section to orient researchers to plans for future genetic enhancement

Arachis Genetic Resources in Europe Bioversity International

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. The series is sponsored by the American Society for Horticultural Science and appears in the form of one or two volumes per year.

Descriptors for Pigeonpea (*Cajanus Cajun* (L.) Millsp.) Cambridge University Press

This book will be of significant interest to those studying and researching biotechnology, plant breeding, genetic resources, intellectual property law and agricultural economics."--BOOK JACKET.

Descriptors for Groundnut Frontiers Media SA

This book review series presents current trends in modern biotechnology. The aim is to cover all aspects of this interdisciplinary technology where knowledge, methods and expertise are required from chemistry, biochemistry, microbiology, genetics, chemical engineering and computer science.

Volumes are organized topically and provide a comprehensive discussion of developments in the respective field over the past 3-5 years. The series also discusses new discoveries and applications. Special volumes are dedicated to selected topics which focus on new biotechnological products and new processes for their synthesis and purification. In general, special volumes are edited by well-known guest editors. The series editor and publisher will however always be pleased to receive suggestions and supplementary information. Manuscripts are accepted in English.

Agroforestry Systems Bioversity International

The newest addition to the Wiley Series in Crop Science, this book is an all-in-one guide to sorghum, one of the eight major grain crops grown worldwide. While presenting information in adequate detail for scientists, it is also an invaluable reference for growers, processors, and grain merchants.

Genetic and Genomic Resources of Grain Legume Improvement John Wiley & Sons

Chickpea is an important protein-rich crop with considerable diversity present among 44 annual Cicer species. A large collection of chickpea germplasm including wild Cicer species has been conserved in different gene banks globally. However, the effective and efficient utilization of these resources is required to develop new cultivars with a broad genetic base. Using core and mini-core collections, chickpea researchers have identified diverse germplasm possessing various beneficial traits that are now being used in chickpea breeding. Further, for chickpea improvement, the genus Cicer harbours alleles/genes for tolerance/resistance to various abiotic and biotic stresses as well as for agronomic and nutrition-related traits. Recent advances in plant biotechnology have resulted in developing large number of markers specific to chickpea in addition to technological breakthrough in developing high-throughput genotyping platforms for unlocking the genetic potential available in germplasm collections.

Quick Bibliography Series Springer

Food is the basic need of human beings. The increasing population and enhanced standard of living are placing greater demands on food-related requirements in terms of quantity, quality and diversity. The Green Revolution which significantly enhanced productivity of important food crops, nevertheless, resulted in certain fallouts as genetic erosion, soil degradation, chemical pollution and aquifer depletion. Amongst these, decrease in plant genetic diversity is an irreversible loss. As the basic raw material for future plant breeding, plant genetic resources of foodgrains are the key to future food security. Though, plant breeding has attracted the attention of many authors, plant genetic resources remain somewhat neglected. This book gives an overall perspective current status of genetic resource of important foodgrain crops (wheat, rice, maize, barley, sorghum, millets, pulses and legumes and underutilized crops). It provides a comprehensive compilation on current status of information on origin, taxonomy, diversity, collection, exchange, evaluation, utilization, molecular characterization and conservation for food grain crops. Eminent scientists and crop specialists have critically analyzed the information in view of the present and future research priorities. In addition, management issue related to plant genetic resources are also discussed. At present such information on these crops is lacking and this book fills in the void. It shall serve as

reference for genetic resource managers, researchers, teachers, students and policy makers in biology and agriculture.

Plant Genetic Resources Woodhead Publishing

Sorghum is one of the hardiest crop plants in modern agriculture and also one of the most versatile. Its seeds provide calorie for food and feed, stalks for building and industrial materials and its juice for syrup. This book provides an in-depth review of the cutting-edge knowledge in sorghum genetics and its applications in sorghum breeding. Each chapter is authored by specialists in their fields to report the latest trends and findings. The book showcases the definitive value of sorghum as a model system to study the genetic basis of crop productivity and stress tolerance and will provide a foundation for future studies in sorghum genetics, genomics, and breeding.

Peanuts CABI

Summarizing landmark research, Volume 2 of this essential series furnishes information on the availability of germplasm resources that breeders can exploit for producing high-yielding cereal crop varieties. Written by leading international experts, this volume offers the most comprehensive and up-to-date information on employing genetic resources t

Advances in Agronomy IRR

This helpful book presents state-of-the-art reviews on plant genetics and the breeding of all types of crops by both traditional means and molecular methods. 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.

Simulation Models, GIS and Nonpoint-source Pollution Int. Rice Res. Inst.

Peanuts: Genetics, Processing, and Utilization (Oilseed Monograph) presents innovations in crop productivity and processing technologies that help ensure global food security and high quality peanut products. The authors cover three central themes, modern breeding methods for development of agronomic varieties in the U.S., China, West Central Africa, and India, enhanced crop protection and quality through information from the peanut genome sequence, and state-of-the-art processing and manufacturing of products in market environments driven by consumer perception, legislation, and governmental policy. Discusses modern breeding methods and genetically diverse resources for the development of agronomic varieties in the U.S., China, India, and West Central Africa Provides enhanced crop protection and quality through the application of information and genetic tools derived from analysis of the peanut genome sequence Includes state-of-art processing and manufacture of safe, nutritious, and flavorful food products

Breeding Sorghum for Diverse End Uses Springer Science & Business Media

This volume provides a wide-ranging survey of all the major grain legumes.

Plant Breeding Reviews CRC Press

Chickpeas, faba beans and lentils are important pulse crops in the Mediterranean region and Middle East, where their high protein seed nutritionally complement cereal grain in the human diet. The by-products of these crops serve as a valuable feed for animals. Thanks to their ability to fix

atmospheric nitrogen, the inclusion of these crops in the cropping system helps in the maintenance of the productivity of the soil and reduces the dependence of the farmer on fertilizer nitrogen to realise good yields. Being the site of original domestication of these legumes, the Fertile Crescent is believed to possess their vast genetic diversity. In order to prevent the erosion of this genetic diversity and to preserve it for posterity, it is necessary that a major effort is made for its expeditious collection, evaluation, documentation and safe storage. The International Center for Agricultural Research in the Dry Areas (ICARDA) being located in the Fertile Crescent has, within its mandate, the responsibility to act as a world centre for the work on the genetic resources of kabuli chickpeas, faba beans and lentils. The International Board of Plant Genetic Resources (IBPGR) has been strongly supporting ICARDA in this important activity.

Plant Breeding Reviews Bioversity International

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.

Descriptors for Chickpea (*Cicer Arietinum* L.). Elsevier

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.

Proceedings of the International Workshop on Groundnuts, ICRISAT Center, Patancheru, India, 13-17 October 1980 Elsevier Inc. Chapters

Farming Systems Research, January 1979 - December 1991 CIAT

Guidelines for Seed Exchange and Plant Introduction in Tropical Crops Food & Agriculture Org.

Chickpea Descriptors Springer