

# COWPEA

## Research, Production and Utilization



Edited by S.R. Singh & K.O. Rachie



INTERNATIONAL INSTITUTE OF TROPICAL AGRICULTURE

# Cowpea Research Production And Utilization

**International Institute of Tropical  
Agriculture**



## **Cowpea Research Production And Utilization:**

Cowpea Research, Production, and Utilization S. R. Singh, 1985 Cowpea also called Southernpea and Blackeyed Pea is a highly nutritious crop particularly suited to the stressful growing conditions of tropical Africa Asia Latin America and the United States Intensive research programmes in centres around the world have in recent years greatly improved the crops yield our efficiency in growing it and methods of processing the end product **Advances in Cowpea Research** B. B. Singh, 1997 Cowpea taxonomy genetics and breeding physiology and agronomy diseases and parasitic weeds insect pests postharvest technology and utilization Biotechnological applications *Challenges and opportunities for enhancing sustainable cowpea production: proceedings of the World Cowpea Conference III held at IITA, 4-8 September 2000* , **IITA Research; 3** International Institute of Tropical Agriculture, *Tropical Plant Breeding* A. Charrier, 2001 Important advances in tropical plant breeding achieved by French research teams of Cirad Inra and Ird in collaboration with counterpart staff in tropical countries are reviewed in the present publication All 24 chapters focus on different plants and include in depth analysis of trait diversity in cultivated forms and links with related wild species overviews of breeding techniques and biotechnological innovations utilized by breeders assessment of genetic progress based on examples from varietal improvement and extension programmes **Cowpea (Vigna unguiculata L. Walp): abstracts of world literature; Vol. V 1983-1985** , **Biological Nitrogen Fixation and Sustainability of Tropical Agriculture** African Association for Biological Nitrogen Fixation. Conference, 1992-10-27 Biological nitrogen fixation in tropical agrosystems twenty years of biological nitrogen fixation research in Africa Sustainable agriculture definition and measurement Biological nitrogen fixation systems in tropical ecosystems an overview A protocol for screening legumes as soil improving crops The sustenance of tropical agriculture with multipurpose azolla Facteurs pedoclimatiques limitant la lixation biologique l azole Response of some tropical nitrogen fixing woody legumes to drought and inoculation with mycorrhiza Improvement to the Phaseolus Rhizobium symbiosis with particular reference to the Caribbean region Effect of pest management systems on biological nitrogen fixation Agronomic evaluation of a rock phosphate as a phosphorus source for Leucaena leucocephala grown on an utisol Nodulation of soybean grown under field conditions and inoculated with Bradyrhizobium japonicum strains Effect of fertilization and Rhizobium inoculation on the growth of Leucaena and Gliricidia on an alfisol in south western Nigeria Early growth and nodulation in Leucaena and Gliricidia and the effects or pruning on biomass productivity Comparative stude on the growth and productivity of Sesbania and Leucaena in the Central Plateau region Rwanda Supernodulation and non nodulation mutants of soybean Genetically improved rhizobia and their use in agriculture Sustainability of nitrogen fixing cropping systems Nodulation and nitrogen fixation and transfer in a cowpea rice cropping system The role of legumes in sustaiing soil productivity and controlling soil erosion Fitting soil improving legumes into inland valley rice baes cropping systems in West Africa Herbage yield and soil fertility restoration potential of some tropical forage legumes **Genetic**

**Resources, Chromosome Engineering, and Crop Improvement** Ram J. Singh, Prem P. Jauhar, 2005-03-16 The first book in this new series discusses grain legumes which rank only second to cereals in supplying calories and protein to the world's population. With each chapter written by an internationally renowned scientist, the book reviews the role of alien germplasm for the domestication of each major legume crop. Discussion for each crop covers or

**Genomics of Tropical Crop Plants** Paul H. Moore, Ray Ming, 2008-01-03 For a long time there has been a critical need for a book to assess the genomics of tropical plant species. At last here it is. This brilliant book covers recent progress on genome research in tropical crop plants including the development of molecular markers and many more subjects. The first section provides information on crops relevant to tropical agriculture. The book then moves on to lay out summaries of genomic research for the most important tropical crop plant species.

**Latin American Region Legume Program and Brazilian Cowpea Program IITA/EMBRAPA/ TICA. Final Report Volume 1 of 3**, *Plant Breeding Reviews, Volume 15* Jules Janick, 2010-04-22 *Plant Breeding Reviews* is an ongoing series presenting state-of-the-art review articles on research in plant genetics, especially the breeding of commercially important crops. Articles perform the valuable function of collecting, comparing, and contrasting the primary journal literature in order to form an overview of the topic. This detailed analysis bridges the gap between the specialized researcher and the broader community of plant scientists.

**Cowpea in India** D. Kumar, N.B. Singh, 2004-07-01 Cowpea, an important food legume, is adapted to wide ranges of soil and rainfall situations; hence cultivated in tropical and sub-tropical regions of the world. It is the crop of low and high rainfall regions, grown particularly as a mixed inter-crop for various purposes. Cowpea is an ancient source of food, forage, fodder, vegetable, certain snacks, cover crop, and an important component of cropping system. The crop has been investigated for its varied aspects to make it more productive, useful, sustenance source of organic food, and the crop of common masses. The information so generated is scattered, unsystematic, and not readily available at a place. It is desired that research results of various aspects generated in India are collected, compiled, and systematically arranged so as to draw viable and valuable conclusions by the intended users and planners. In view of this present compilation, *Cowpea in India* represents a treasure of scientific information by reputed researchers throughout the country. The compilation comprises fourteen chapters devoted to plant improvement, crop husbandry, resistance towards abiotic stresses, genetic resources of quantitative and qualitative nature, plant protection, soil nematodes, forage aspects, uses, vegetable purposes, etc. The book, it is hoped, would be of great use and help to those concerned with all over cowpea advancement and development in one way or other.

**Genetic Improvement of Vegetable Crops** G. Kalloo, B.O. Bergh, 2012-12-02 Genetic improvement has played a vital role in enhancing the yield potential of vegetable crops. There are numerous vegetable crops grown worldwide and variable degrees of research on genetics, breeding, and biotechnology have been conducted on these crops. This book brings together the results of such research on crops grouped as alliums, crucifers, cucurbits, leaf crops, tropical underground, and miscellaneous. Written by eminent

specialists each chapter concentrates on one crop and covers cytology genetics breeding objectives germplasm resources reproductive biology selection breeding methods heterosis and hybrid seed production quality and processing attributes and technology This unique collection will be of great value to students scientists and vegetable breeders as it provides a reference guide on genetics breeding and biotechnology of a wide range of vegetable crops **Crop Yield** Donald L. Smith, Chantal Hamel, 2012-12-06 This book has been prepared for those seeking a better understanding of the functioning of crop plants particularly the processes that lead to the generation of products valued by human beings The contributors who are among the world's foremost experts on the important crops upon which humanity depends for food or fibre address the relevant processes for their specific crop Currently the world population is continuing to increase It is projected to plateau around the middle of the next century and while there is considerable controversy regarding the population level when this plateau is achieved most estimates are in the area of 10 000 000 000 At present there are about 800000000 people in the world who do not have secure access to food Over the last 50 years various aspects of agricultural research have been combined to increase the output of world crops approximately 2.5 fold Given the need to feed the increasing population and to provide better access it is predicted that during the next 50 years the agricultural research community must repeat this achievement **Genetics, Physiology and Cultivation of Moth Bean, Cowpea and Horse Gram** Rakesh

Pathak, 2023-05-26 This authored book gives insight into the morphology physiology genetics plant protection and biotechnology of three important arid legumes viz moth bean cowpea and horse gram There are seven chapters for each crop that provide in depth information on cultivation genetic improvement plant protection measures management of physiological and abiotic stresses along with related genetic markers and biotechnological advances pertaining to these legumes The chapters present research findings and brief reviews concerning the advances made in the improvement of these legumes Legumes are utilized as pulses or grains aiding as an important source of protein for both human and animal consumption and also provide raw materials to the food and feed industries They are also valuable for soil building improving soil quality and biological nitrogen fixation Physiology and genetics provide an inimitable source of information on the distinct aspects of basic and applied legume research for general readers students academicians and researchers Arid legumes are crops characterized by inherent features and capabilities to withstand adverse and harsh climatic conditions significantly replenish the soil as well as provide protein and micronutrients Adaptability to several stresses including drought makes them key to agriculture in areas receiving scanty rainfall This comprehensive book disseminates significant information on the genetic diversity cultivation manipulation through mutagenic techniques molecular biology and other breeding techniques The book therefore is of importance to teachers researchers and policymakers who are interested to acquire knowledge about moth bean cowpea and horse gram It also serves as an additional reading material for MSc and PhD students of agriculture and environmental sciences The book is also useful to national and international agricultural

scientists and policymakers      *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      Physiology and Biotechnology Integration for Plant Breeding Henry T. Nguyen, Abraham Blum, 2004-01-14 Global demand for wheat rice corn and other essential grains is expected to steadily rise over the next twenty years Meeting this demand by increasing production through increased land use is not very likely and while better crop management may make a marginal difference most agriculture experts agree that this anticipated deficit must be made up through increased crop yields The first resource of its kind Physiology and Biotechnology Integration for Plant Breeding assembles current research in crop plant physiology plant biotechnology and plant breeding that is aimed toward improving crop plants genetically while supporting a productive agriculture ecosystem Highly comprehensive this reference provides access to the most innovative perspectives in crop physiology with a special emphasis on molecular approaches aimed at the formulation of those crop cultivars that offer the greatest potential to increase crop yields in stress environments Surveys the current state of the field as well as modern options and avenues for plant breeders and biotechnologists interested in augmenting crop yield and stability With the contributions of plant scientists from all corners of the globe who are actively involved in meeting this important challenge Physiology and Biotechnology Integration for Plant Breeding provides readers with the background information needed to understand this cutting edge work as well as detailed information on present and potential applications While the first half of the book establishes and fully explains the link between crop physiology and molecular biology the second part explores the application of biotechnology in the effective delivery of the high yield and environmentally stable crop plants needed to avert the very real possibility of worldwide hunger      **Weed Management for Developing Countries** Food and Agriculture Organization of the United Nations, 1994-01-01      Horticultural Reviews, Volume 12 Jules Janick, 2011-01-11 Horticultural

Reviews presents state of the art reviews on topics in horticultural science and technology covering both basic and applied research Topics covered include the horticulture of fruits vegetables nut crops and ornamentals These review articles written by world authorities bridge the gap between the specialized researcher and the broader community of horticultural scientists and teachers

**Pesticides in the Modern World** Margarita Stoytcheva, 2011-10-21 This book brings together issues on pesticides and biopesticides use with the related subjects of pesticides management and sustainable development It contains 24 chapters organized in three sections The first book section supplies an overview on the current use of pesticides on the regulatory status on the levels of contamination on the pesticides management options and on some techniques of pesticides application reporting data collected from all over the world Second section is devoted to the advances in the evolving field of biopesticides providing actual information on the regulation of the plant protection products from natural origin in the European Union It reports data associated with the application of neem pesticides wood pyrolysis liquids and bacillus based products The third book section covers various aspects of pesticides management practices in concert with pesticides degradation and contaminated sites remediation technologies supporting the environmental sustainability

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