

Genetic Resources and Their Exploitation – Chickpeas, Faba Beans and Lentils

J.R. Witcombe, W. Erskine
(editors)

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Nigel Maxted, Sarita Jane Bennett



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Genetic Resources and Their Exploitation — Chickpeas, Faba beans and Lentils J.R. Witcombe, W. Erskine, 2012-12-06
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.

Genetic Resources and Their Exploitation John R. Witcombe, William Erskine, 1984 *Chickpea Breeding and Management* Shyam S. Yadav, W. Chen, 2007
The chickpea is an ancient crop that is still important in both developed and developing nations. This authoritative account by international experts covers all aspects of chickpea breeding and management and the integrated pest management and biotechnology applications that are important to its improvement. With topics covered including origin and taxonomy, ecology, distribution and genetics, this book combines the many and varied research issues impacting on production and utilization of the chickpea crop on its journey from paddock to plate. *Genetic Resources of Mediterranean Pasture and Forage Legumes* Sarita Jane Bennett, P.S. Cocks, 2012-12-06
Genetic Resources of Mediterranean Pasture and Forage Legumes is a comprehensive review of grassland improvement in Mediterranean areas using legume species. The book includes a detailed account of the processes involved in understanding the ecology of legumes and their collection in the Mediterranean through to their preliminary evaluation and storage at various Genetic Resource Centres. A generic conspectus and key to the forage legumes of the Mediterranean basin is also included. These proceedings are truly international, with examples on the collection and use of Mediterranean genetic resources being illustrated by Genetic Resource Centres in Australia, Cyprus, France, Greece, Syria, Turkey and Tunisia. Current important issues such as the sustainability of Mediterranean grasslands, the risk of genetic erosion and the principles of population genetics employed during a collecting mission are discussed. The book will be of value to researchers working in the fields of grassland and rangeland improvement, Mediterranean farming systems, genetic resources and pasture and forage ecology.

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

Systems for Cytogenetic Analysis in Vicia Faba L. G.P. Chapman, S.A. Tarawali, 2012-12-06. Unlike the situation in the major cereals, the yields of *Vicia faba* have not been markedly increased during the last half century. There is no single cause for this, but among those that have been important is the lack of cytogenetic understanding in relation to breeding performance. Since as a consequence little genetic variation has been available to agronomists, conclusions probably unwarranted have been drawn about the limited prospects for the faba bean. Against such a background, it has been difficult to justify the investment of research resources in the crop. The central theme of this book is that with the establishment of cytogenetic studies in *Vicia faba*, understanding of its genetic system will develop in relation to breeding improvement and thereafter some at least of the impediments to yield increase can steadily though not dramatically be removed. We have distinguished between longer and shorter papers, and only the former include Abstracts. The latter amplify themes in the longer papers or were written to develop particular topics at the request of the editors. G. P. Chapman, S. A. Tarawali, Wye College, April 1984. VIII.

ACKNOWLEDGEMENTS We would like to thank the various contributors to this publication for the readiness with which they have met our various requests. Our thanks are due to the staff of the Centre for European Agricultural Studies for facilitating arrangements for the Seminar, and to Mr Peter Abott and Carl Zeiss Oberkochen Ltd for the display of microscopes.

Plant Genetic Resources of Legumes in the Mediterranean Nigel Maxted, Sarita Jane Bennett, 2013-03-14. Genetic erosion, that is the loss of native plant and genetic diversity, has been exponential from the Mediterranean Basin through the Twentieth century. This careless eradication of species and genetic diversity as a result of human activities from a hot spot of diversity threatens sustainable agriculture and food security for the temperate regions of the world. Since the early 1900s there has been a largely ad hoc movement to halt the loss of plant diversity and enhance its utilisation. The Convention on Biological Diversity and Food and Agriculture Organisation of the United Nations International Undertaking on Plant Genetic Resources both highlight the need to improve conservation methodologies and enhance utilisation techniques. It has been argued that the most important component of biodiversity is the genetic diversity of crop and forage species used to feed humans and livestock. These cultivated and related wild species provide the raw material for further selection and improvement. Leguminosae species are of major economic importance: peas, chickpeas, lentils, and faba beans, as well as numerous forage species, and provide a particularly rich source of protein for human and animal foods. Their distribution is concentrated in the Mediterranean region, and therefore the improvement of their conservation and use in the region is critical. This text is designed to help ensure an adequate breadth of legume diversity is conserved and to help maximise the use of that conserved diversity. The subjects of conservation and use of legume diversity, the Mediterranean ecosystem, and taxonomy of legumes are introduced. Generic reviews of the taxonomy, centre of diversity, ecogeographic distribution, genetic diversity, distribution,

conservation status conservation gaps and future research needs are provided along with a discussion of the importance of rhizobia to the maintenance of legume diversity Current ex situ and in situ conservation activities as well current legume uses are reviewed In conclusion future priorities for ex situ and in situ plant genetic conservation and use of Mediterranean legumes are highlighted All contributors look forward rather than simply reviewing past and current activities and therefore it is hoped that the identification of genetic erosion location of taxonomic and genetic diversity and promotion of more efficient utilisation of conserved material will be enhanced

Conventional and Contemporary Practices of Plant Breeding Patrick O. Ayiecho, Julius O. Nyabundi, 2025-01-23 This book covers some established conventional and recent advances in plant breeding methods It highlights and treats in detail some breeding strategies not adequately handled or usually ignored in many plant breeding texts There is in depth coverage of plant resistance mechanisms to various stress factors and application of phenotyping genotyping bioinformatics molecular markers omics technologies biotechnology transgenesis and gene editing in crop improvement Topics like germplasm conservation plant sex expression and pollination control recurrent selection methods interspecific hybridisation pre breeding chromosome manipulation and breeding for resistance to diseases and insect pests are comprehensively covered The book gives special attention to some problems that affect food security in developing countries e g parasitic weeds and drought and heat stress Breeding for resistance to parasitic weeds like Striga broomrapes and *Cuscuta* is always ignored in most plant breeding texts Where applicable problems and challenges associated with some breeding strategies are highlighted and possible solutions proposed The text is rich in relevant examples for various topics The book is suitable for teaching of plant breeding at the university level and is also beneficial to practising plant breeders It brings together some relevant work and literary information that is useful to university lecturers students and practising plant breeders The book targets university students in agricultural and plant sciences particularly those taking plant breeding as a key unit course

The Lentil William Erskine, 2009 This book provides a comprehensive review of current lentil research It contains 26 chapters covering topics on lentil global production supply and demand origin phylogeny domestication and spread plant morphology anatomy and growth habit agroecology and adaptation genetic resources collection characterization conservation and documentation genetic enhancement for yield and yield stability breeding for short season environments improvement in Developed Countries advances in molecular research breeding and management to minimize the effects of drought and improve water use efficiency soil nutrient management cropping systems biological nitrogen fixation and soil health improvement mechanization disease pest and weed management seed quality postharvest processing and value addition and food preparation and use The last chapter presents field based evidence of adoption of improved lentil cultivars from two cases Bangladesh and Ethiopia

World crops: Cool season food legumes R.J. Summerfield, 2012-12-06 The genesis of the International Food Legume Research Conference IFLRC can be traced back to 1983 and so this Volume the Proceedings of that Conference has had a gestation period of close to five

years Professor Norman Simmonds the perennial Book Review Editor of Experimental Agriculture has expressed the opinion vol 22 p 201 1986 that Many symposial volumes are just plain awful Elsewhere Nature vol 312 pp 201 2 1984 Anthony Watkinson then a Commissioning Editor at Oxford University Press has described several reasons which have led him to believe that Conference proceedings symposia are generally disliked To put it mildly this type of publication has a bad name The problems from an author s perspective of contributing to any many authored publication are aired in an exchange of correspondence in Biologist vol 30 pp 123 and 180 1983 and vol 31 pp 3 and 69 1984 And from the editor s viewpoint D J Weatherall then Nuffield Professor of Clinical Medicine at the University of Oxford has described Nature vol 317 p

Genetic, agronomic and pathological improvement of the lentil and fabe bean crops (mejoramiento genetico y agronomico y phytupathologico de lenteja y haba)) , *Neunzehnhundersechundachtzig Supplement* ,1985 **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 *Linking Research and Marketing Opportunities for Pulses in the 21st Century* R. Knight,2012-12-06 Proceedings of the Third International Food Legumes Research Conference *Plants for Arid Lands* G.E. Wickens,David. V. Field,Joe R. Goodin,2012-12-06 Economic plants have been defined by SEPASAT as those plants that are utilised either directly or indirectly for the benefit of Man Indirect usage includes the needs of Man s livestock and the maintenance of the environment the benefits may be domestic commercial or aesthetic Economic plants constitute a large and so far uncalculated percentage of the quarter of a million higher plants in the World today However it has been calculated that 10% 25 000 of these species are now on the verge of extinction and extinction means that a genetic resource that could be of benefit to Man will be lost for ever Furthermore for every species lost an estimated 10 30 other dependent organisms are also doomed Fewer than 1 per cent of the World s plants have been sufficiently well studied for a true evaluation of the potential floral wealth awaiting discovery not only in the rain forests which man is now actively destroying at a rate of 20 ha a minute but also in the very much neglected dry areas of the World

Crop Adaptation to Climate Change Shyam Singh Yadav,Robert J. Redden,Jerry L. Hatfield,Hermann Lotze-Campen,Anthony E. Hall,2011-08-02 A major task of our time is to ensure adequate food supplies for the world s current population now nearing 7 billion in a sustainable way while protecting the vital functions and biological diversity of the global environment The task of providing for a growing population is likely to be even more difficult in view of actual and potential changes in climatic conditions due to global warming and as the population continues to grow Current projections suggest that the world s temperatures will rise 1 8 4 0 by 2100 and population may reach 8 billion by the year 2025 and some 9 billion by mid century after which it may stabilize This book addresses these critical issues by presenting the science needed not only to understand climate change effects on crops but also to adapt current agricultural systems particularly in regard to genetics to the changing conditions Crop Adaptation to Climate Change covers a spectrum of issues related to both

crops and climatic conditions The first two sections provide a foundation on the factors involved in climate stress assessing current climate change by region and covering crop physiological responses to these changes The third and final section contains chapters focused on specific crops and the current research to improve their genetic adaptation to climate change Written by an international team of authors Crop Adaptation to Climate Change is a timely look at the potentially serious consequences of climate change for our global food supply and is an essential resource for academics researchers and professionals in the fields of crop science agronomy plant physiology and molecular biology crop consultants and breeders as well as climate and food scientists

Genomics-aided Breeding Strategies for Biotic Stress in Grain Legumes Ashok Kumar Parihar, Abhishek Bohra, Amrit Lamichaney, R.K. Mishra, Rajeev K. Varshney, 2024-08-13 This contributed volume explores the latest breakthroughs in genetic and genomic resources for enhancing biotic stress responses in grain legumes including minor ones It covers the advances made to date including gene identification transcriptomics proteomics transgenics genome editing genomic selection epigenetic breeding and speed breeding related to different biotic stresses Authored by crop specific experts the chapters in this book are essential resources for those directly involved in improving grain legume crops Legumes play a vital role in ensuring food and nutritional security enhancing soil quality and promoting environmental sustainability Rich in protein they are essential in preventing hunger and malnutrition while adding to dietary diversity However as these crops are commonly grown in marginal lands with poor inputs they are highly susceptible to biotic stresses such as diseases and pests which can cause significant yield losses This book consolidates all available knowledge about genetic and genomic aspects of biotic stress responses in various grain legumes It is a must have resource for all stakeholders involved in grain legume improvement Whether you are a breeder pathologist biotechnologist seed production specialist market manager graduate or post graduate student or any other industry professional this book serves as an excellent guide to help you stay at the forefront of grain legume improvement

Genetics, Genomics and Breeding of Cool Season Grain Legumes Marcelino Perez de la Vega, Ana Maria Torres, Jose Ignacio Cubero, Chittaranjan Kole, 2011-09-26 Cool season grain legumes including pea faba bean lentil chickpea and grass pea are extensively grown in many parts of the world They are a primary source of proteins in human diet This volume deals with the most recent advances in genetics genomics and breeding of these crops The state of the art for the individual crops differs however

Lentils Mohar Singh, 2018-08-10 Lentils Potential Resources for Enhancing Genetic Gains describes the evolutionary aspects and agronomic potential of this important pulse with emphasis placed on wide hybridization including molecular aspects and future breeding strategies The existing variability among cultivated germplasm has been exploited to reach a desirable level of productivity However to attain further breakthroughs in increasing yield and improving stability in future cultivars new sources of genes alleles need to be identified and incorporated into cultivated varieties This book provides specific use information including wild lentil germplasm utilization thus allowing for the selection of transgressive

interspecific recombinants that can be adapted to specific environments Identifies breeding resources and the agronomic value assessed for specific traits of interest Presents marker assisted breeding work and genomic resources Describes strategies for wild lentils using wide hybridization Features key breeding strategies *ICARDA Annual Report* International Center for Agricultural Research in the Dry Areas,2005

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