



Lupins As Crop Plants

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Lupins As Crop Plants:

Lupins as Crop Plants J. S. Gladstones, C. A. Atkins, John Hamblin, 1998 An authoritative account of *Lupinus* species Topics include breeding genetics and biotechnology nutrition nitrogen fixation transport physiology toxins stress responses pests and diseases agronomy and farming systems composition and food uses and economic value

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 provides 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

Crop Physiology Case Histories for Major Crops Victor Sadras, Daniel Calderini, 2020-12-05 Crop Physiology Case Histories of Major Crops updates the physiology of broad acre crops with a focus on the genetic environmental and management drivers of development capture and efficiency in the use of radiation water and nutrients the formation of yield and aspects of quality These physiological process are presented in a double context of challenges and solutions The challenges to increase plant based food fodder fiber and energy against the backdrop of population increase climate change dietary choices and declining public funding for research and development in agriculture

are unprecedented and urgent The proximal technological solutions to these challenges are genetic improvement and agronomy Hence the premise of the book is that crop physiology is most valuable when it engages meaningfully with breeding and agronomy With contributions from 92 leading scientists from around the world each chapter deals with a crop maize rice wheat barley sorghum and oat quinoa soybean field pea chickpea peanut common bean lentil lupin and faba bean sunflower and canola potato cassava sugar beet and sugarcane and cotton A crop based approach to crop physiology in a G x E x M context Captures the perspectives of global experts on 22 crops Plant Responses to Drought Stress Ricardo Aroca,2012-10-12 This book provides a comprehensive overview of the multiple strategies that plants have developed to cope with drought one of the most severe environmental stresses Experts in the field present 17 chapters each of which focuses on a basic concept as well as the latest findings The following major aspects are covered in the book Morphological and anatomical adaptations Physiological responses Biochemical and molecular responses Ecophysiological responses Responses to drought under field conditions The contributions will serve as an invaluable source of information for researchers and advanced students in the fields of plant sciences agriculture ecophysiology biochemistry and molecular biology *Wild Crop Relatives: Genomic and Breeding Resources* Chittaranjan Kole,2011-02-24 Wild crop relatives are now playing a significant part in the elucidation and improvement of the genomes of their cultivated counterparts This work includes comprehensive examinations of the status origin distribution morphology cytology genetic diversity and available genetic and genomic resources of numerous wild crop relatives as well as of their evolution and phylogenetic relationship Further topics include their role as model plants genetic erosion and conservation efforts and their domestication for the purposes of bioenergy phytomedicines nutraceuticals and phytoremediation Wild Crop Relatives Genomic and Breeding Resources comprises 10 volumes on Cereals Millets and Grasses Oilseeds Legume Crops and Forages Vegetables Temperate Fruits Tropical and Subtropical Fruits Industrial Crops Plantation and Ornamental Crops and Forest Trees It contains 125 chapters written by nearly 400 well known authors from about 40 countries *Transgenic Crops VI* Eng Chong Pua,Michael R. Davey,2007-09-07 This volume Transgenic Crops VI includes the following broad topic sections Oils and Fibers Medicinal Crops Ornamental Crops Forages and Grains Regulatory and Intellectual Property of Genetically Manipulated Plants It is an invaluable reference for plant breeders researchers and graduate students in the fields of plant biotechnology agronomy horticulture forestry genetics and both plant cell and molecular biology Top 100 Food Plants Ernest Small,2009 This beautifully illustrated book reviews scientific and technological information about the world s major food plants and their culinary uses An introductory chapter discusses nutritional and other fundamental scientific aspects of plant foods The 100 main chapters deal with a particular species or group of species All categories of food plants are covered including cereals oilseeds fruits nuts vegetables legumes herbs spices beverage plants and sources of industrial food extracts Information is provided on scientific and common names appearance history economic and social importance food uses including practical

information on storage and preparation as well as notable curiosities There are more than 3000 literature citations in the book and the text is complemented by over 250 exquisitely drawn illustrations Given the current alarming rise in food costs and increasing risk of hunger in many regions specialists in diverse fields will find this reference work to be especially useful As well those familiar with Dr Small s books or those with an interest in gardening cooking and human health in relation to diet will want to own a copy of this book Publisher s web site [The Lupin Genome](#) Karam B. Singh,Lars G.

Kamphuis,Matthew N. Nelson,2020-01-30 This book on lupin genomics primarily focuses on the narrow leafed lupin NLL and details the genomic resources that have been developed and how they are currently being used to help advance both fundamental and applied research on NLL in areas ranging from its domestication to plant microbe interactions and syntenic relationships between NLL and other legume crops It also reports on genomic efforts being pursued with regard to other lupin crops Lupins are important ecological engineers they can colonise and thrive in low nutrient soils due to their ability to fix atmospheric nitrogen in symbiosis with bacteria and efficiently take up phosphorous Recently lupins have attracted considerable interest not only because of their value for sustainable farming as a break crop but also as a potential super food for fighting major health issues in connection with diabetes and obesity Narrow leafed lupin is the main grain legume crop grown primarily in Australia and was therefore selected for the development of a reference lupin genome and associated genomic resources Its genome has recently been sequenced with a focus on the gene rich space which has advanced the development of new breeding tools for the improvement of NLL and related lupin crops [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 **Breeding Grasses and Protein Crops in the Era of**

Genomics Gintaras Brazauskas,Gražina Statkevičiūtė,Kristina Jonavičienė,2018-04-25 This book includes papers presented at the 2017 Joint meeting of Fodder Crops and Amenity Grasses Section and Protein Crops Working Group of EUCARPIA Oil and Protein Crops Section The theme of the meeting Breeding Grasses and Protein Crops in the Era of Genomics has been divided into six parts 1 Utilisation of genetic resources and pre breeding 2 Genetic improvement of quality and agronomic traits 3 Breeding for enhanced stress tolerance 4 Implementation of phenomics and biometrics 5 Development of genomic tools and bioinformatics and 6 Reports of Parallel Sessions [Neglected and Underutilized Crops](#) Muhammad

Farooq,Kadambot H.M. Siddique,2022-11-29 Neglected and Underutilized Crops Future Smart Food explores future food crops with climate resilience potential Sections cover their botany nutritional significance global distribution production technology and tolerance to biotic and abiotic stresses of neglected and underutilized crops By simply changing species in a crop rotation system the cycle of some pests and diseases is disrupted and probabilities of infestations are reduced Finally

the book provides case studies that highlight where the adaptation of crops to local environments especially with regard to climate change have been successful These crops can help make agricultural production systems more resilient to climate change Although a few books on neglected and underutilized crops are available this comprehensive book covers the full scope of crop husbandry nutritional significance and global distribution Contains consistent coverage of botany nutritional significance production technology and tolerance to biotic and abiotic stresses Presents case studies of success stories where adaptations in local environments have made a difference especially with climate change Addresses key opportunities for improving global food security

Breeding of Ornamental Crops: Annuals and Cut Flowers Jameel M. Al-Khayri, Shri Mohan Jain, Muneeb Ahmad Wani, 2025-02-08 Flowers and other ornamental plants are used for all occasions to meet consumers demands preferably novel flowers traits e g fragrance flower color and shape early flowering less water consumption long shelf life The worldwide floricultural industry is worth over 50 billion Euros and can serve as a food security socio economic impact and generate employment Ornamental industry is regarded as one of the fastest growing farm industries This industry is sustained through novelty thus there is increasing demand on plant breeders in both public and private sectors to fulfil consumer s needs Biotechnological approaches such as genetic transformation genomics nanotechnology and gene editing are well suited for designing custom made novel traits of flowers benefiting both ornamental and cosmetic industry Moreover micropropagation is well exploited commercially for large scale plant production along with vertical and digital farming and artificial intelligence especially by the floriculture industry This book focuses on advances in breeding strategies of diverse range of ornamental plants It consists of 2 parts Part I Flowering annuals and Part II Cut flowers Each chapter contributed by eminent authors is devoted to an individual ornamental species or a group of related species It provides an in depth understanding of modern breeding strategies including traditional methods and biotechnological approaches Topics covered in each chapter in relation to the subject species include current cultivation practices and challenges germplasm biodiversity and conservation traditional breeding molecular breeding tissue culture applications genetic engineering and gene editing mutation breeding hybridization and future research directions Major concepts are illustrated with color photos

Legumes for Global Food Security, volume II, 2023-10-18 Humanity is facing many global challenges These include 1 achieving food security for a rapidly growing population 2 slowing the progression of climate change by reducing the production and release of greenhouse gases as consequence of human activity and 3 meeting the increasing demand for clean energy that will not harm the environment In this regard legumes deliver several important services to societies Legumes provide a diverse range of food crops that are significant sources of plant based proteins for humans globally Grain legumes present outstanding nutritional and nutraceutical properties while being an affordable food that contributes to achieving future global food and feed security in the context of an increasing world population

Legume Nitrogen Fixation in Soils with Low Phosphorus Availability Saad Sulieman, Lam-Son Phan Tran, 2017-06-10 This thoughtful and

provocative book provides a concise up to date presentation of how current and projected future phosphorus scarcity will affect legume growth and their symbiotic nitrogen fixing capabilities It is a timely examination of the physiological and molecular responses of nodules to phosphorous deficiency in attempt to identify common principles Students and researchers in the many disciplines related to crop productivity will find this title an exciting contribution in the area of plant stress physiology The knowledge in this volume can also aid plant breeders particularly through new methods of genetic engineering in developing unique and adaptive cultivars with higher symbiotic efficiency The awareness of the rapidly rising world population must translate into a parallel increase in agricultural production in order to sustain the growing population both now and in the future Hence the demand for food crops to produce proteins and vegetable oil for human consumption is going to increase considerably during the coming years The essential role of legumes in agriculture is well recognized given the abundant levels of proteins and oils found in plants along with their enormous contribution to the sustainability of agricultural systems and human health The capacity of legumes to fix nitrogen N₂ in partnership with rhizobia provides an input saving and resource conserving alternative thereby reducing the need for chemical fertilizers while enhancing overall crop productivity The use of N₂ fixing legumes to produce plant proteins results in a substantial decrease in the consumption of fossil fuels and therefore also in the agricultural effects to global warming However a major constraint to legume production is low soil phosphorus P availability considering that an overwhelming majority of the world's soils are classified as P deficient Low P availability is especially problematic for legumes since legume nodules responsible for N₂ fixation have a high P requirement Therefore this book explains how nodule N₂ fixation responds to low P availability which is crucial for improving legume production and maintaining agricultural sustainability in the context of the global P crisis *New Zealand*

Journal of Agricultural Research ,1997-11 **New Zealand Journal of Crop and Horticultural Science/Experimental Agriculture** ,1978-03 Climate Change and Management of Cool Season Grain Legume Crops Shyam Singh Yadav,David L. McNeil,Robert Redden,Sharanagouda A. Patil,2010-06-03 This book covers all aspect of legume production management technologies plant ecological response nutrients management biological nitrogen fixation molecular approaches potential cultivars biodiversity management under climate change Also covered are various aspects of legume management under climate change such as production management technology ecology physiology and crops response to nutrients drought salinity and water use efficiency Biodiversity management molecular approaches and biological Nitrogen fixation climate change and strategies This book presents the most comprehensive and up to date review of research on different cool season grain legume crops nutrients management biotic and abiotic stresses management agronomical approaches for drought management salinity drought weed management and water use efficiency impact on international trade around the world

Legumes and Oilseed Crops I Y. P. S. Bajaj,2012-12-06 **Recent Advances of Research in Antinutritional Factors in Legume Seeds** J Huisman,T F B Van Der Poel,I E Liener,1988-11-25 Toxic Substances in Crop Plants J P Felix

D'Mello, Carol M. Duffus, J H Duffus, 1991-01-01 Continuing disquiet over the use of animal by products in livestock nutrition has provided renewed impetus for the greater exploitation of conventional and novel crop plants both as food and as industrial raw materials. However a major factor restricting the utilisation of such crops in animal nutrition is the presence of a diverse array of toxic substances capable of inducing effects ranging from loss of hair and wool to severe neurological disorders and even death. Significant advances have been made to establish the nature of these compounds and to assess their effects in animals and man. As in other branches of biomedical research these developments have been achieved through the multidisciplinary efforts of chemists, biochemists, toxicologists, nutritionists and molecular geneticists. This volume reviews current knowledge of toxic substances in crop plants with particular reference to their anti nutritional effects in animals and man and the potential for detoxification. The distribution and ecological significance of these compounds is also addressed. Reviews current knowledge of toxic substances in crop plants. Assesses distribution and ecological significance of compounds.

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