

PLANT GENETIC CONSERVATION

THE *IN SITU* APPROACH



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Plant Genetic Conservation The In Situ Approach

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Plant Genetic Conservation The In Situ Approach:

Plant Genetic Conservation Nigel Maxted, Danny Hunter, Rodomiro Ortiz Ríos, 2020-09-10 Plant diversity sustains all animal life and the genetic diversity within plants underpins global food security This text provides a practical and theoretical introduction to the strategies and actions to adopt for conserving plant genetic variation as well as explaining how humans can exploit this diversity for sustainable development Notably readable it initially offers current knowledge on the characterization and evaluation of plant genetic resources The authors then discuss strategies from in situ and ex situ conservation to crop breeding exploring how these can be used to improve food security in the face of increasing agrobiodiversity loss human population growth and climate change Each chapter draws on examples from the literature or the authors research and includes further reading references Containing other useful features such as a glossary it is invaluable for professionals and undergraduate and graduate students in plant sciences ecology conservation genetics and natural resource management

Plant Genetic Conservation Nigel Maxted, B.V. Ford-Lloyd, J.G. Hawkes, 2011-10-17 The recent development of ideas on biodiversity conservation was already being considered almost three quarters of a century ago for crop plants and the wild species related to them by the Russian geneticist N Vavilov He was undoubtedly the first scientist to understand the importance for humankind of conserving for utilization the genetic diversity of our ancient crop plants and their wild relatives from their centres of diversity His collections showed various traits of adaptation to environmental extremes and biotypes of crop diseases and pests which were unknown to most plant breeders in the first quarter of the twentieth century Later in the 1940s 1960s scientists began to realize that the pool of genetic diversity known to Vavilov and his colleagues was beginning to disappear Through the replacement of the old primitive and highly diverse land races by uniform modern varieties created by plant breeders the crop gene pool was being eroded The genetic diversity of wild species was equally being threatened by human activities over exploitation habitat destruction or fragmentation competition resulting from the introduction of alien species or varieties changes and intensification of land use environmental pollution and possible climate change

Managing Plant Genetic Diversity V. Ramanatha Rao, A. H. D. Brown, M. Jackson, 2001-12-13 This book contains edited and revised papers from a conference on Science and Technology for Managing Plant Genetic Diversity in the 21st Century held in Malaysia in June 2000 organised by the International Plant Genetic Resources Institute IPGRI It includes keynote papers and some 40 additional ones covering ten themes The major scientific challenges to developing a global vision for the next century are identified and key research objectives are also discussed

The Ex Situ Conservation of Plant Genetic Resources J.G. Hawkes, Nigel Maxted, B.V. Ford-Lloyd, 2012-12-06 It is a distressing truism that the human race during the last millennium has caused the exponential loss of plant genetic diversity throughout the world This has had direct and negative economic political and social consequences for the human race which at the same time has failed to exploit fully the positive benefits that might result from conserving and exploiting the world's plant genetic

resources However a strong movement to halt this loss of plant diversity and enhance its utilisation for the benefit of all humanity has been underway since the 1960 s Frankel and Bennett 1970 Frankel and Hawkes 1975 This initiative was taken up by the Convention on Biological Diversity CBD 1992 that not only expounds the need to conserve biological diversity but links conservation to exploitation and development for the benefit of all Article 8 of the Convention clearly states the need to develop more effective and efficient guidelines to conserve biological diversity while Article 9 along with the FAO International Undertaking on Plant Genetic Resources promotes the adoption of a complementary approach to conservation that incorporates both ex situ and in situ techniques

Conserving Plant Genetic Diversity in Protected Areas José María Iriondo, Nigel Maxted, Mohammad Ehsan Dulloo, 2008 Conservation in protected areas has focused on preserving biodiversity of ecosystems and species whereas conserving the genetic diversity contained within species has historically often been ignored However maintaining genetic diversity is fundamental to food security and the provision of raw materials and it is best preserved within plants natural habitats This is particularly true for wild plants that are directly related to crop species and can play a key role in providing beneficial traits such as pest or disease resistance and yield improvement These wild relatives are presently threatened due to processes of habitat destruction and change and methodologies have been adapted to provide in situ conservation through the establishment of genetic reserves within the existing network of protected areas Providing a long awaited synthesis of these new methodologies this book presents a practical set of management guidelines that can be used for the conservation of plant genetic diversity of crop wild relatives in protected areas

International law of relevance to plant genetic resources: a practical review for scientists and other professionals working with plant genetic resources Susan Bragdon, 2004 History and development The FAO global system for the conservation and sustainable use of plant genetic resources for food and agriculture The International treaty on plant genetic resources for food and agriculture The Convention on Biological Diversity Origin and movement of OGR implications for access and benefit sharing policies The TRIPS agreement UPOV Phytosanitary and biosafety measures Development and improvement of genetic resources Cross cutting issues Economic issues

Plant Genetic Resources and Climate Change Michael Jackson, Brian Ford-Lloyd, Martin Parry, 2013-12-13 This book will address the current state of climate change predictions and how climate change will affect conservation and use of crop germplasm both ex situ and in situ In addition specific examples of germplasm research related to climate change threats will be highlighted Such activities need to take place under a regime of access to and use of germplasm through international conventions and treaties

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

Plant Conservation Genetics Robert J Henry, 2006-06-21 A practical guide that covers both in situ and ex situ techniques for plant diversity conservation The conservation and sustainable use of plant genetic resources is of increasing importance globally Plant Conservation Genetics addresses this issue by providing an extensive overview of this emerging area of science exploring various pr

Sustainable Agriculture Volume 2 Eric Lichtfouse, Marjolaine Hamelin, Mireille Navarrete, Philippe Debaeke, 2011-02-09 This book gathers review articles that analyze current agricultural issues and knowledge then propose alternative solutions It will therefore help all scientists decision makers professors farmers and politicians who wish to build a safe agriculture energy and food system for future generations

Applied Genetics Of Humans, Animals, Plants And Fungi, The (2nd Edition) Bernard Charles Lamb, 2006-12-28 A concise clear writing style and a detailed and rich coverage of topics are the reasons that students found the first edition of the book so engaging and useful Riding on this wave all chapters within the second edition of this popular book have been thoroughly updated and expanded especially the human and animal materials A wider range of animals is covered including dogs and cats as well as farm animals The use of cord blood for therapy pre implantation genetic diagnosis and animal cloning are also explored and dealt with a

Routledge Handbook of Agricultural Biodiversity Danny Hunter, Luigi Guarino, Charles Spillane, Peter C. McKeown, 2017-10-03 The world relies on very few crop and animal species

for agriculture and to supply its food needs In recent decades there has been increased appreciation of the risk this implies for food security and quality especially in times of environmental change As a result agricultural biodiversity has moved to the top of research and policy agendas This Handbook presents a comprehensive overview of our current knowledge of agricultural biodiversity in a series of specially commissioned chapters It draws on multiple disciplines including plant and animal genetics ecology crop and animal science food studies and nutrition as well as social science subjects which explore the socio economic cultural institutional legal and policy aspects of agricultural biodiversity It focuses not only on the core requirements to deliver a sustainable agriculture and food supply but also highlights the additional ecosystem services provided by a diverse and resilient agricultural landscape and farming practices The book provides an indispensable reference textbook for a wide range of courses in agriculture ecology biodiversity conservation and environmental studies

Tomorrow's Agriculture Peters, Prabhu Pingali, 2018-04-17 This title was first published in 2002 This volume represents some of the proceedings of the 24th conference of the International Association of Agricultural Economists IAAE held in Berlin Germany in August 2000 The papers in this volume include the president's address the Elmhirst Lecture and a selection of 20 contributed papers It also includes panel discussion reports reports on the discussion groups and mini symposia poster paper abstracts and the synoptic view presented at the close of the conference by the new president of the IAAE Joachim von Braun The theme of the 24th conference was Tomorrow's Agriculture Incentives Institutions Infrastructure and Innovations reflecting the rapid advances being made in the application of biotechnology in both the developed and developing worlds

Plant Genetic Resources B. S. Dhillon, 2006 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 issues 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

Crop Wild Relatives and Climate Change Robert J. Redden, Shyam Singh Yadav, Nigel

Maxted, Mohammad Ehsan Dulloo, Luigi Guarino, Paul Smith, 2015-07-09 Two major challenges to continued global food security are the ever increasing demand for food products and the unprecedented abiotic stresses that crops face due to climate change Wild relatives of domesticated crops serve as a reservoir of genetic material with the potential to be used to develop new improved varieties of crops Crop Wild Relative and Climate Change integrates crop evolution breeding technologies and biotechnologies improved practices and sustainable approaches while exploring the role wild relatives could play in increasing agricultural output Crop Wild Relative and Climate Change begins with overviews of the impacts of climate change on growing environments and the challenges that agricultural production face in coming years and decades Chapters then explore crop evolution and the potential for crop wild relatives to contribute novel genetic resources to the breeding of more resilient and productive crops Breeding technologies and biotechnological advances that are being used to incorporate key genetic traits of wild relatives into crop varieties are also covered There is also a valuable discussion on the importance of conserving genetic resources to ensure continued successful crop production A timely resource Crop Wild Relative and Climate Change will be an invaluable resource for the crop science community for years to come

Biodiversity in Agriculture Jack Rodney Harlan, Paul Gepts, 2012-02-23 Brings together research from a range of fields to address key questions relating to agriculture its origins and long term sustainability *Achieving sustainable cultivation of ornamental plants* Emeritus Professor Michael Reid, 2020-04-28 Strong focus on environmental physiology abiotic stress and breeding more abiotic stress resistant varieties Reviews range of advanced marker assisted breeding techniques including gene editing Discusses key advances in the value chain to improve resource use for more sustainable production **Living Off Biodiversity** Izabella Koziell, International Institute for Environment and Development, 2001 This book attempts to explore different natural resource sectors and to identify possibilities for mainstreaming the conservation and sustainable use of biodiversity into these sectors but without compromising livelihoods in the process It advocates leveraging incremental change within the existing natural resource sectors through research policy change development and demonstration of alternative approaches There are six chapters that discuss these issues in the forestry agricultural livestock and fisheries sectors and within rangelands A discussion on insect diversity and livelihoods also constitutes a separate chapter The whole book is framed by an introduction and macro economic perspective on how to start to resolve the conflicts between conservation and development Editor Enhancing Crop Genepool Use Nigel Maxted, M Ehsan Dulloo, Brian V Ford-Lloyd, 2016-05-31 Maintaining food security in the face of human population increase and climate change is one of the critical challenges facing us in the 21st Century Utilisation of the full range of agrobiodiversity will be a necessary tool in addressing this challenge In this book a team of international contributors review all aspects of utilization and conservation of crop wild relative CWR and landrace LR diversity as a basis for crop improvement and future food security This book will appeal to a wide array of specialists and postgraduate students such as those working in the fields of agrobiodiversity

conservation and use conservation ecology botany genetics plant breeding and agriculture *Rediscovery of Landraces as a Resource for the Future* Oscar Grillo, 2018-09-12 In recent years all over the world the attention paid to local and traditional productions is growing especially in the agro food sector Maybe it is not only due to the impact of globalization and the social and economic changes but also due to the increased consideration to health and nutritional aspects of food Hence for economic social historical and nutritional reasons this trend has led to the rediscovery and reuse of landraces of many different crops responding to requests for more and more demanding market This volume collects examples of local crops and old landraces of different areas of the planet that testify the extreme importance of the relation existing among a land the local productions the historical traditions the conservation of biodiversity the health benefits the environmental impact and the local economies also including the significance to dedicate resources to scientific researches in local crops

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