

Detlef Virchow  
Editor

# Efficient Conservation of Crop Genetic Diversity

Theoretical  
Approaches  
and Empirical Studies



Springer

# Efficient Conservation Of Crop Genetic Diversity Theoretical Approaches And Empirical Studies

**N Noddings**



## **Efficient Conservation Of Crop Genetic Diversity Theoretical Approaches And Empirical Studies:**

Efficient Conservation Of Crop Genetic Diversity Detlef Virchow, 2013-03-09 The book reflects the work in progress regarding the analysis of the costs of crop genetic resources conservation that has been conducted at various research institutes over the last couple of years including research conducted at ZEF and associated institutes In addition contributions in this publication were presented at a special session during the Global Dialogue The Role of the Village in the 21 Century Crops Jobs and Livelihood in Hannover Germany at the World Exposition in August 2000 The purpose of the publication is to make a general contribution to the ongoing discussion about the conservation of crop genetic resources as part of the global strategy to secure increasing food production in a sustainable way Specifically it discusses the costs of the worldwide efforts to conserve crop genetic resources on the basis of theoretical and applied studies It aims to serve decision makers at different levels with information on the costs involved in the conservation of genetic resources and hence to increase the awareness of the importance of improving the cost effectiveness of different conservation methods in order to optimize the sustainability of conservation The quoted Leipzig Declaration which was adopted at the Fourth International Technical Conference on Plant Genetic Resources in Leipzig in June 1996 demonstrates the close linkage of the contributions to the ongoing discussion about the implementation of the Global Plan of Action for the Conservation and Sustainable Utilization of Plant Genetic Resources for Food and Agriculture

Efficient Conservation of Crop Genetic Diversity Detlef Virchow, 2014-01-15 The book deals with the economics of conservation of plant genetic resources for food and agriculture in low income countries This is done by developing concepts and discussing case studies Only discussing the issues of access to and benefit sharing of plant genetic resources unfortunately public discussion has neglected the serious problem of financing the conservation efforts because to date the issues of access to and benefit sharing of plant genetic resources have merely been discussed The global situation of the conserved genetic resources is alarming mainly due to the fact that the institutes above all those in developing countries do not have enough financial resources Hence it is imperative that the costs are taken into consideration The contributions are grouped around theoretical approaches and empirical studies The estimation of conservation costs help to allocate the appropriate financial assistance to the relevant countries for conserving their natural resources and assist in rationing scarce resources among competing crops which need to be covered under the conservation programmes

The Economics of Managing Crop Diversity On-farm Edilegnaw Wale, 2012-06-25 The purpose of this book is to assess a variety of economic issues as they relate to agro biodiversity and show how addressing these issues can assist in agro biodiversity policy making This is illustrated using empirical data from some of the countries Ethiopia Nepal and Zambia which are part of the Genetic Resources Policy Initiative The empirical chapters apply the relevant economic methods including regression analysis choice experiments hedonic pricing contingent valuation and farm business income analysis The authors discuss the economics of managing crop diversity on farm in the context of crop variety attribute preferences

farmers perception of agro biodiversity loss and value addition and marketing of the products of traditional crop varieties The case studies include detailed analysis of traditional varieties of groundnut maize rice sorghum and teff The results are relevant not only to GRPI countries but also to other countries concerned with the sustainable utilization of these resources Overall the studies illustrate how genetic resources issues can be integrated into rural development interventions

**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

**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 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

*In Situ Conservation of Wild Plant Species* Vernon Hilton Heywood, M. E. Dulloo, 2005

Environmental Pollution, Biodiversity, and Sustainable Development Hasnain Nangyal, Muhammad Saleem Khan, 2020-01-28 Environmental Pollution Biodiversity and Sustainable Development Issues and Remediation provides an extensive summary of biodiversity It is the result of the assistance of environmentalists researchers policy experts and academicians from across the globe sharing their research and knowledge on biodiversity and ways to mitigate the threat from climate change over utilization of natural resources pollution and more The volume considers that biodiversity encompasses a wide range of biological processes ranging from genetic diversity species populations

communities and ecosystems to landscapes and regions This book written by a panel of international experts in biodiversity conservation biology and evolution from different countries including Iran Pakistan India Bangladesh Tajikistan Russia and others highlights the human impact on biodiversity hotspots on a global scale The volume provides an abundance of valuable research for faculty students and researchers in environmental sciences government agencies and many others Edible Alliums Haim D. Rabinowitch, Brian Thomas, 2022-11-22 Allium crops include more than 30 species many of which for e g onions shallots garlic leeks bunching onions and chives are of economic importance Bulb onions rank second only to tomatoes in terms of global production Alliums are farmed and harvested in a range of climatic conditions worldwide forming important parts of local diets This book provides a comprehensive review of major and minor Allium crops from scientific and horticultural perspectives It broadly covers modern biology including genetics and breeding propagation production processing and nutritional and health benefits This is an essential resource for scholars researchers and students in plant science and agriculture in addition to molecular biologists plant breeders agronomists consultants and extension specialists

Impact of Terroir on the Glucosinolates Profile of Moringa oleifera Grown in Three Agro-Ecological Zones in Ghana and their Potential Role in Food Security (Band 57) Olivia Naa Ayorkor Tetteh, 2024-03-28 Moringa oleifera Lam can survive extreme growth conditions by adjusting its metabolism Among the potential metabolites produced during adaptation are glucosinolates which possess potential cancer chemoprotective attributes Recent climate events such as increased temperatures and prolonged drought impact crop yield and quality significantly Therefore climate resilient plants such as M oleifera can be utilized in areas where crop production is adversely affected Understanding how terroir factors and cultural practices affect the glucosinolate profile in M oleifera is important for optimizing cultivation strategies To achieve this the leaves from cultivated and wild grown mature M oleifera plants were harvested for intact glucosinolates analysis Prior to the analysis preserving the plant materials to prevent the breakdown of glucosinolates was important Given that the use of dehydration methods such as freeze drying for the leaves is expensive and laborious in developing countries like Ghana a locally well suited dehydration method namely oven drying at 40 C for 48 h was identified and utilized Results showed that during the rainy season climate parameters did not significantly influence the total glucosinolates content in all leaf materials harvested In contrast accession selection harvest time and agro ecological zones significantly influenced the total glucosinolate content Fertilization significantly altered the vegetative growth parameters of the cultivated accessions but not the total glucosinolates content In conclusion M oleifera proved to be well adapted to the climate in Ghana The continued collection storage and use of the genetic resources of M oleifera accessions well adapted to stress conditions are envisaged to ensure the species contribution towards improved food security and nutrition among vulnerable groups **Culture and Customs of Rwanda** Julius O. Adekunle, 2007-05-30 Rwanda has been in the news for the genocide of 1994 and its aftermath This volume exposes Western readers to the fuller picture of Rwanda Early European travelers attested to Rwanda s beauty

describing it variously as the Switzerland of Africa and the Pearl of Africa Rwanda has also been referred to as the Land of a Thousand Hills and the Land of Gorillas The spectacular volcanoes mountains and natural resources are significant assets The nation been dominated by two colonial powers the Germans and Belgians In spite of these political upheavals and acts of ethnic violence Rwanda remains a country with rich culture and customs Readers will learn that living together in harmony has been part of the Rwandan society with its few ethnic groups and traditional values supported a culture of peace The traditionally pastoral and agricultural society is overviewed The chapter on religion includes discussion of polytheism to Christianity Other chapters cover the strong family and women s roles the arts and oral cultures celebrations food and dress

*Plant genetic resources* Dr M. Ehsan Dulloo, 2021-03-23 Covers both in situ and ex situ strategies for conserving and exploiting plant genetic diversity Particularly strong coverage of in situ and on farm techniques including collection and management of wild plant populations community based conservation strategies participatory plant breeding programmes and seed systems to ensure farmer access to improved varieties Covers improvements in characterising evaluating and safe exchange of germplasm to accelerate crop breeding programmes Plant Biology and Biotechnology Bir Bahadur, Manchikatta Venkat Rajam, Leela Sahijram, K. V. Krishnamurthy, 2015-06-19 Plant genomics and biotechnology have recently made enormous strides and hold the potential to benefit agriculture the environment and various other dimensions of the human endeavor It is no exaggeration to claim that the twenty first century belongs to biotechnology Knowledge generation in this field is growing at a frenetic pace and keeping abreast of the latest advances and calls on us to double our efforts Volume II of this two part series addresses cutting edge aspects of plant genomics and biotechnology It includes 37 chapters contributed by over 70 researchers each of which is an expert in his/her own field of research Biotechnology has helped to solve many conundrums of plant life that had long remained a mystery to mankind This volume opens with an exhaustive chapter on the role played by thale cress *Arabidopsis thaliana* which is believed to be the *Drosophila* of the plant kingdom and an invaluable model plant for understanding basic concepts in plant biology This is followed by chapters on bioremediation biofuels and biofertilizers through microalgal manipulation making it a commercializable prospect discerning finer details of biotic stress with plant fungal interactions and the dynamics of abiotic and biotic stresses which also figure elsewhere in the book Breeding crop plants for desirable traits has long been an endeavor of biotechnologists The significance of molecular markers marker assisted selection and techniques are covered in a dedicated chapter as are comprehensive reviews on plant molecular biology DNA fingerprinting techniques genomic structure and functional genomics A chapter dedicated to organellar genomes provides extensive information on this important aspect Elsewhere in the book the newly emerging area of epigenetics is presented as seen through the lens of biotechnology showcasing the pivotal role of DNA methylation in effecting permanent and transient changes to the genome Exclusive chapters deal with bioinformatics and systems biology Handy tools for practical applications such as somatic embryogenesis and

micropropagation are included to provide frontline information to entrepreneurs as is a chapter on somaclonal variation Overcoming barriers to sexual incompatibility has also long been a focus of biotechnology and is addressed in chapters on wide hybridization and hybrid embryo rescue Another area of accomplishing triploids through endosperm culture is included as a non conventional breeding strategy Secondary metabolite production through tissue cultures which is of importance to industrial scientists is also covered Worldwide exchange of plant genetic material is currently an essential topic as is conserving natural resources in situ Chapters on in vitro conservation of extant threatened and other valuable germplasms gene banking and related issues are included along with an extensive account of the biotechnology of spices the low volume high value crops Metabolic engineering is another emerging field that provides commercial opportunities As is well known there is widespread concern over genetically modified crops among the public GM crops are covered as are genetic engineering strategies for combating biotic and abiotic stresses where no other solutions are in sight RNAi and micro RNA based strategies for crop improvement have proved to offer novel alternatives to the existing non conventional techniques and detailed information on these aspects is also included The book s last five chapters are devoted to presenting the various aspects of environmental marine desert and rural biotechnology The state of the art coverage on a wide range of plant genomics and biotechnology topics will be of great interest to post graduate students and researchers including the employees of seed and biotechnology companies and to instructors in the fields of plant genetics breeding and biotechnology

*The Economics of On-farm Conservation of Crop Diversity in Ethiopia* Edilegnaw Wale Zegeye, 2004 The issue of maintaining a diverse gene pool in the form of crop varieties is very topical world wide This is caused by the potential benefit of crop genetic resources for addressing future demand emanating from unforeseen agricultural problems This volume is mainly concerned with on farm conservation as a supplement to the other in situ and ex situ conservation options The study aims at generating relevant information for maintaining local varieties on farmers fields in Ethiopia In order to effectively devise policies for on farm conservation the volume argues that an improved understanding of farmers incentives attribute preferences and opportunity costs is indispensable These issues are extensively addressed both theoretically and empirically with a focus on policy that is expressed by the guiding question PGR, 2003 2003-2004 IFPRI Annual Report International Food Policy Research Institute, 2004-09-27 The Annual report contains an essay Agriculture food security nutrition and the Millennium Development Goals by Joachim von Braun M S Swaminathan and Mark W Rosegrant There is an overview of the Institute followed by information on research and outreach Special emphasis is given to Global Food System Functioning Food System Governance and Food System Innovations **Department Publications** University of Minnesota. Department of Applied Economics, 2003 *Agrobiodiversity Conservation and Economic Development* Andreas Kontoleon, Unai Pascual, Melinda Smale, 2008-10-03 Pt 1 Policy perspectives pt 2 Multiple objectives trade offs and synergies between productivity and agrobiodiversity pt 3 Market and non market institutions for agrobiodiversity conservation

*IFPRI International Food Policy Research Institute,2003*      *Consumer Perception of Food Attributes* Shigeru Matsumoto,Tsunehiro Otsuki,2018-06-19 Food credence attributes are food features that are difficult to verify even after consumption Consumers today are concerned about many food credence attributes including animal rights contamination risk fair trade practice genetic modification geographical origin and organic farming For the past several decades many scholars have analyzed the value consumers place on credence attributes and have reported that consumers will pay a premium for foods with these desirable properties In addition their studies reveal that individual consumers place greater importance on some credence attributes than others For example some are seriously concerned about animal welfare while others are solely concerned about food safety One of the objectives of this book is to summarize recent empirical findings from scholarly works on how consumers value food credence attributes Such knowledge would benefit producers processors retailers and policy makers Another objective of this book is to discuss the effectiveness of the programs that have been introduced to strengthen the relationship between producers and consumers Many programs have been developed to more effectively inform consumers regarding food production processes      **Minnesota Applied Economist** ,2004



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