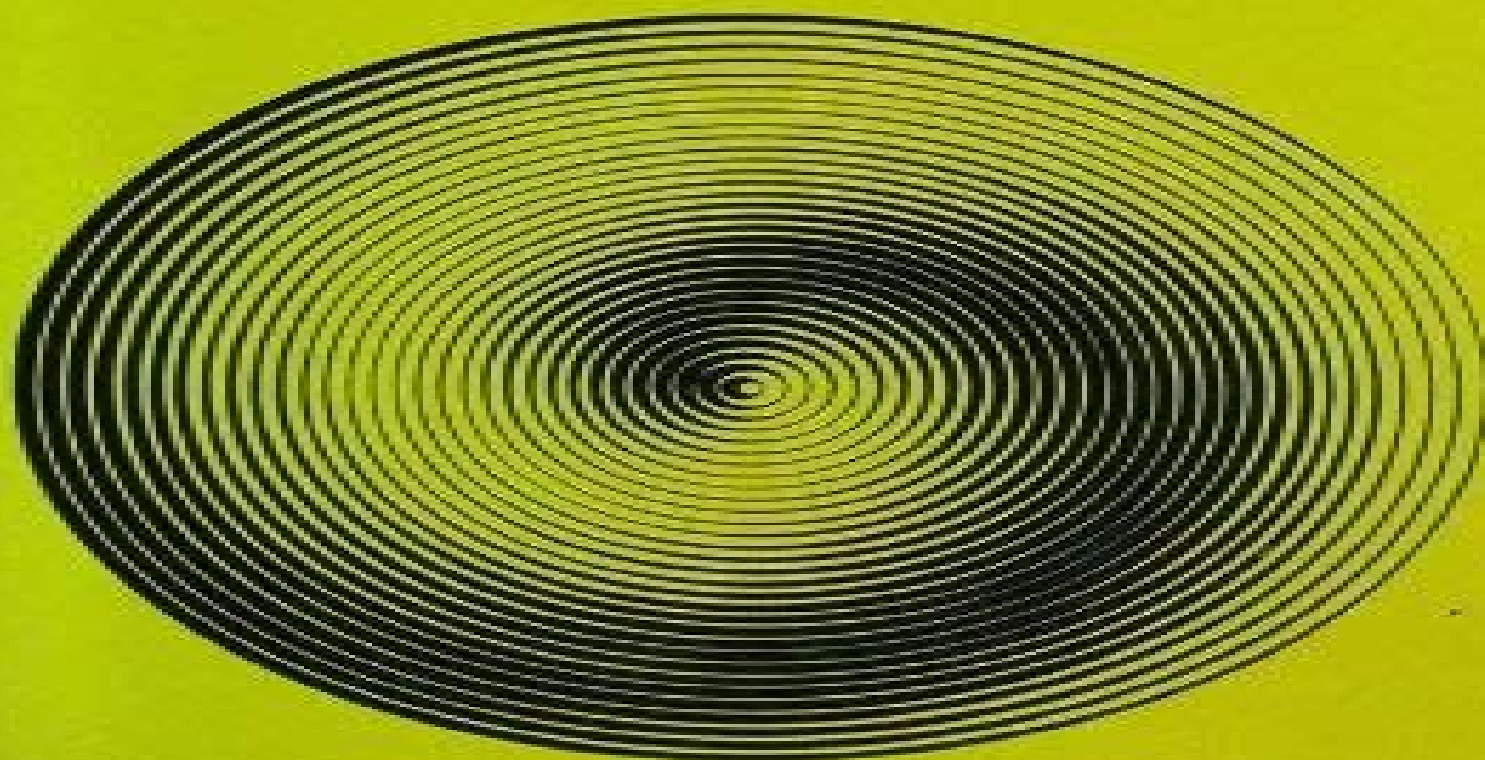


International Biological Programme **2**

# **Crop genetic resources for today and tomorrow**

Edited by O. H. Frankel and J. G. Hawkes



# Crop Genetic Resources

**National Research Council, Board on  
Agriculture, Committee on Managing  
Global Genetic Resources: Agricultural  
Imperatives**

## **Crop Genetic Resources:**

**Crop Genetic Resources for Today and Tomorrow** O. H. Frankel, J. G. Hawkes, 1975-09-25 Genetic variation in plant populations Exploration Evaluation problems Conservation and storage Documentation and information management Genetic resources centres Crop Genetic Resources as a Global Commons Michael Halewood, Isabel Lopez Noriega, Selim Louafi, 2012-11-27 Our food and livelihood security depend on the sustained management of the diverse biological resources that make up the Earth's plant genetic resources This book is about the creation management and use of the global crop commons based upon the International Treaty on Plant Genetic Resources for Food and Agriculture *Managing Global Genetic Resources* National Research Council, Board on Agriculture, Committee on Managing Global Genetic Resources: Agricultural Imperatives, 1993-01-01 This anchor volume to the series *Managing Global Genetic Resources* examines the structure that underlies efforts to preserve genetic material including the worldwide network of genetic collections the role of biotechnology and a host of issues that surround management and use Among the topics explored are in situ versus ex situ conservation management of very large collections of genetic material problems of quarantine the controversy over ownership or copyright of genetic material and more **Biotechnology and Plant Genetic Resources** J. A. Callow, Brian Ford-Lloyd, H. J. Newbury, 1997 Advances in molecular and cell biology have led to the development of a whole range of techniques for manipulating genomes collectively termed biotechnology Although much of the focus in the plant sciences has been on the direct manipulation of plant genomes biotechnology has also catalyzed a renewed emphasis on the importance of biological and genetic diversity and its conservation The methods of biotechnology now permit a greater understanding of both species and genetic diversity in plants the mechanisms by which that variation is generated in nature and the significance of that variation in the adaptation of plants to their environment They allow the development of rapid methods for screening germplasm for specific characters and promote more effective conservation strategies by defining the extent of genetic diversity Tissue culture based techniques are available for conserving germplasm that cannot be maintained by more traditional methods Also sophisticated informatics systems enable information on plant genetics and molecular biology to be cross related to systematic ecological and other data through international networks *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

*Realising Farmers' Rights to Crop Genetic Resources* Regine Andersen, Tone Winge, 2013-07-18 Farmers Rights are essential for maintaining crop genetic diversity which is the basis of all food and agricultural production in the world The International Treaty on Plant Genetic Resources for Food and Agriculture recognizes Farmers Rights and provides for relevant measures However implementation is slow and in many countries there is resistance This book shows the necessity of realizing Farmers Rights for poverty alleviation and food security the practical possibilities of doing so and the potential gains for development and society at large It provides decision makers and practitioners with a conceptual framework for understanding Farmers Rights and success stories showing how each of the elements of Farmers Rights can be realized in practice The success stories have brought substantial achievements as regards one or more of the four elements of Farmers Rights the rights of farmers to save use exchange and sell farm saved seed the protection of traditional knowledge benefit sharing and participation in decision making This does not mean that these examples are perfect Challenges encountered on the way are conveyed and offer important lessons The stories represent different regions and localities including Europe Asia Africa and Latin America as well as various categories of stakeholders and types of initiatives and policies

**Plant Genetic Resources** United States. National Plant Genetic Resources Board, 1979 *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

**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

**Plant Genetic Resources Conservation and Use in China**, 2001-12 *A Multilateral System for Plant Genetic Resources* David Cooper, Jan Engels, E. A. Frison, 1994 This paper argues that a comprehensive Multilateral System for plant genetic resource for food and agriculture is required which ensures the conservation of plant genetic resources and their utilization for human benefit at a global level Such a system would incorporate agreements on access to plant genetic resources which ensured their availability mechanisms for the sharing of benefits derived from plant genetic

resources conservation networks and information systems and research and plant breeding capacity which meets the needs of farmers worldwide Such a system should be developed with the full participation of all groups involved in the management of genetic resources

**The Second Report on the State of the World's Plant Genetic Resources for Food and Agriculture** Food and Agriculture Organization of the United Nations, 2010-01-01 Plant genetic resources provide a basis for food security livelihood support and economic development as a major component of biodiversity The Second Report on the State of the World's Plant Genetic Resources for Food and Agriculture demonstrates the central role plant genetic diversity continues to play in shaping agriculture growth in the face of climate change and other environmental challenges It is based on information gathered from Country Reports regional syntheses thematic studies and scientific literature documenting the major achievements made in this sector during the past decade and identifying the critical gaps and needs that should urgently be addressed The Report provides the decision makers with a technical basis for updating the Global Plan of Action on Conservation and Sustainable Use of Plant Genetic Resources for Food and Agriculture It also aims to attract the attention of the global community to set priorities for the effective management of plant genetic resources for the future Purchase a print copy

**Crop Genetic Resources**, 1981 **Core Collections of Plant Genetic Resources** Th. J. L. van Hintum, A. H. D. Brown, C. Spillane, 2000 PGR, 2003 **A Bibliography of Plant Genetic Resources** John Gregory Hawkes, John Trevor Williams, Jean Hanson, 1976 Genetic resources general gene centres origins of agriculture and plant domestication archaeology and palaeobotany ethnobotany evolutions general genetic variation in populations genecology and adaptation taxonomy and biosystematics chemotaxonomy and data management conservation general conservation tissue analysis and other culture evaluation and utilisation organisation Networks training gene banks genetic resources centres and world collections

**Participatory Approaches to the Conservation and Use of Plant Genetic Resources** Esbern Friis-Hansen, Bhuvon Ratna Sthapit, 2000 **Seeds and Survival** Paul Richards, Guido Ruivenkamp, International Plant Genetic Resources Institute, 1997 Plant Genetic Resources Brian Ford-Lloyd, Michael Jackson, 1986 This book is aimed at providing a comprehensive introduction to the form and availability of crop diversity *Plant Genetic Resources* United States. National Plant Genetic Resources Board, 1979

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