

Utilisation and conservation of farm animal genetic resources



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Utilisation And Conservation Of Farm Animal Genetic Resources

J.K. Oldenbroek



Utilisation And Conservation Of Farm Animal Genetic Resources:

Utilisation and conservation of farm animal genetic resources Kor Oldenbroek, 2023-08-28 The genetic diversity comprised in farm animal species and breeds is an important resource in livestock systems For several reasons within the different species used for food production only a few breeds are developed towards high output breeds fitting in high input systems In this process many breeds are set aside from the food producing livestock systems These breeds will be faced with extinction unless new functions for these breeds are found This is a real threat for the genetic diversity within species This book is intended to give insight into the issues of the utilisation and conservation of farm animal genetic resources towards a broad group of readers interested in these subjects The insight is presented as applications of population molecular and quantitative genetics that can be used to take appropriate decisions in utilisation and conservation programmes A previous edition of this book is a key resource in courses worldwide and cited in many scientific publications The first two chapters discuss the decisions to be made in utilisation and conservation Chapter 3 surveys the different ways in which the diversity we observe within a species can be characterised Chapter 4 illustrates recent results using this theory for utilisation and conservation purposes Chapters 5 6 and 7 give theoretical backgrounds necessary to make decisions and chapters 8 and 9 present the operation and practical implications of selection and conservation schemes Farm Animal Genetic Resources: Technical Considerations for Policy-Makers Concerning Conservation and Use , National Plan for Conservation and Sustainable Use of Farm Animal Genetic Resources , 2016 Options and Strategies for the Conservation of Farm Animal Genetic Resources J. Gibson, 2006 Sixty three experts from 28 countries and eight international organizations met for four days in Montpellier France in November 2005 to review the options and strategies for the conservation of farm animal genetic resources FAnGR and to identify priorities for action The workshop focused primarily on the technical needs and opportunities and placed less emphasis on policy and institutional issues although findings on such issues did arise naturally from many of the conclusions drawn The workshop resulted in 11 major findings and 13 priorities for action The workshop also identified four broad areas where information and knowledge were lacking The findings and priorities for action are listed here in the executive summary and each is explained in more detail in the body of this report They are presented in the order developed by the workshop Participants did not attempt to rank the findings and actions Genomic management of animal genetic diversity J.K. Oldenbroek, 2023-08-07 Recently developed genomic tools like SNP genotyping and whole genome sequencing and their analysis offer great opportunities for the conservation and utilisation of animal genetic diversity both among and within breeds These genomic tools can be used to detect potentially valuable rare alleles and haplotypes They are important parts of the genetic diversity we need to conserve now for possible utilisation in the future This book describes the use of genomic technology to define breeds to measure diversity and to assess important features in the history of breeds affecting the present genetic diversity The management of genetic diversity with genomic tools is

outlined both in vivo small populations of rare breeds or large populations with small effective population sizes and in vitro genebanks Special attention is given to the genomic management of populations of animals with high incidences of genetic defects This book is intended for MSc and PhD students scientists working with small populations in animal breeding and in conservation programmes for rare breeds

The State of the World's Animal Genetic Resources for Food and Agriculture Barbara Rischkowsky,Dafydd Pilling,2007-01-01 Sustainable management of the world s livestock genetic diversity is of vital importance to agriculture food production rural development and the environment This publication is the first global assessment of these resources Drawing on 169 Country Reports contributions from a number of international organizations and 12 specially commissioned thematic studies it presents an analysis of the state of agricultural biodiversity in the livestock sector origins and development uses and values distribution and exchange risk status and threats and of capacity to manage these resources institutions policies and legal frameworks structured breeding activities and conservation programs Needs and challenges are assessed in the context of the forces driving change in livestock production systems Tools and methods to enhance the use and development of animal genetic resources are explored in sections on the state of the art in characterization genetic improvement economic evaluation and conservation As well providing a technical reference document the country based preparation of The State of the World has led to a process of policy development and a Global Plan of Action for Animal Genetic Resources which once adopted will provide an agenda for action by the international community Publisher s description

Conservation and Sustainable Use of Animal Genetic Resources for Food and Agriculture Centrum voor Genetische Bronnen Nederland (Wageningen),2014 *User's Manual for National Coordinators for the Management of Farm Animal Genetic Resources* ,1998 The Domestic Animal Diversity Information System DAD IS provides information and tools for management teaching and research related to the characterization sustainable use and conservation of farm animal genetic resources

Cryoconservation of Animal Genetic Resources Food and Agriculture Organization of the United Nations,2012 This publication presents current state of the art knowledge on the use of co products from the biofuel industry as livestock feed At present biofuel production makes use of agricultural crops grown primarily on arable land in particular maize and wheat and sugar cane used for the production of ethanol

Farm Animal Genetic Resources Geoff Simm,2004-01-01 This book provides an overview of developments in the conservation and sustainable utilisation of Farm Animal Genetic Resources It is based on presentations given at a conference on this subject co organised by the British Society of Animal Science the Department for Environment Food and Rural Affairs the Rare Breeds Survival Trust and the Sheep Trust

In Vivo Conservation of Animal Genetic Resources Food and Agriculture Organization of the United Nations,2013 These guidelines present the basic concepts involved in the development and implementation of in vivo conservation plans for animal genetic resources for food and agriculture The guidelines are intended for use by policy makers in the management of animal genetic resources managers of animal breeding

organizations persons responsible for training in management of animal genetic resources and any other stakeholders with leading roles in designing and implementing in vivo conservation programmes for animal genetic resources Although individual breeders and livestock keepers are not the direct target audience the guidelines include background information that is relevant for all stakeholders involved in planning conservation programmes *The State of the World's Animal Genetic Resources for Food and Agriculture-- in Brief* Barbara Rischkowsky,2007-01-01 This in brief version intended for use by decision makers and the wider public presents a summary of the key findings of the main report see above Part 1 outlines the state of agricultural biodiversity in the livestock sector Part 2 considers the livestock production systems of which animal genetic resources form a part Part 3 largely based on the 148 Country reports is an assessment of institutional and human capacity in the field of animal genetic resources management Part 4 presents the state of the art in terms of the methods available for the management of animal genetic resources As well as providing a technical reference document the country based preparation of The State of the World has led to a process of policy development and a Global Plan of Action for Animal Genetic Resources which once adopted will provide an agenda for action by the international community The need to conserve farm animal genetic resources through community-based management in Africa : should policy makers be concerned? Clemens B. A. Wollny,2001 **Economic Valuation of Animal Genetic Resources** J. E. O. Rege,1999-01-01

Advances in Farm Animal Genomic Resources Stéphane Joost,Michael W. Bruford,Ino Curik,Juha Kantanen,Johannes A. Lenstra,Johann Sölkner,Göran Andersson,Philippe V. Baret,Nadine Buys,Jutta Roosen,Michèle Tixier-Boichard,Paolo Ajmone Marsan,2016-01-28 The history of livestock started with the domestication of their wild ancestors a restricted number of species allowed to be tamed and entered a symbiotic relationship with humans In exchange for food shelter and protection they provided us with meat eggs hides wool and draught power thus contributing considerably to our economic and cultural development Depending on the species domestication took place in different areas and periods After domestication livestock spread over all inhabited regions of the earth accompanying human migrations and becoming also trade objects This required an adaptation to different climates and varying styles of husbandry and resulted in an enormous phenotypic diversity Approximately 200 years ago the situation started to change with the rise of the concept of breed Animals were selected for the same visible characteristics and crossing with different phenotypes was reduced This resulted in the formation of different breeds mostly genetically isolated from other populations A few decades ago selection pressure was increased again with intensive production focusing on a limited range of types and a subsequent loss of genetic diversity For short term economic reasons farmers have abandoned traditional breeds As a consequence during the 20th century at least 28% of farm animal breeds became extinct rare or endangered The situation is alarming in developing countries where native breeds adapted to local environments and diseases are being replaced by industrial breeds In the most marginal areas farm animals are considered to be essential for viable land use and in the developing world a major pathway out of poverty

Historic documentation from the period before the breed formation is scarce. Thus reconstruction of the history of livestock populations depends on archaeological, archeozoological and DNA analysis of extant populations. Scientific research into genetic diversity takes advantage of the rapid advances in molecular genetics. Studies of mitochondrial DNA, microsatellite DNA profiling and Y chromosomes have revealed details on the process of domestication, on the diversity retained by breeds and on relationships between breeds. However, we only see a small part of the genetic information and the advent of new technologies is most timely in order to answer many essential questions. High throughput single nucleotide polymorphism genotyping is about to be available for all major farm animal species. The recent development of sequencing techniques calls for new methods of data management and analysis and for new ideas for the extraction of information. To make sense of this information in practical conditions, integration of geo-environmental and socio-economic data are key elements. The study and management of farm animal genomic resources, FAnGR, is indeed a major multidisciplinary issue. The goal of the present Research Topic was to collect contributions of high scientific quality relevant to biodiversity management and applying new methods to either new genomic and bioinformatics approaches for characterization of FAnGR, to the development of FAnGR conservation methods applied *ex situ* and *in situ* to socio-economic aspects of FAnGR conservation, to transfer of lessons between wildlife and livestock biodiversity conservation and to the contribution of FAnGR to a transition in agriculture, FAnGR and agro-ecology.

Animal production and animal science worldwide. A. Rosati, A. Tewolde, C. Mosconi, 2023-08-28

After the experience of the first volume, The World Association for Animal Production (WAAP) continues the publication of the Book of the Year series for the benefit of animal scientists and policy makers in the field of livestock systems. The WAAP asked the best known and significant animal scientists in the world to contribute to the preparation of this book. Following the success of the first volume of the series, the WAAP Book of the Year 2003, many authors from the six continents are contributing to this 2nd volume. The importance of this publication is to have already established a worldwide reference for the animal science and production sectors. There are the usual four sections that raised much interest in the previous volume of the series. The first section has six articles describing the changing conditions of livestock systems in each of the six continents. The second section has more than twenty papers describing the development of the many sectors in which the animal science field has been divided. The third section, dealing with contemporary issues, is declared by our readers to be the most interesting. It allows participating authors to describe current and significant issues important in these last years for the animal science and production sectors. The statistics produced in the previous volume are updated and enhanced with new figures in this book to form the fourth section. The papers included in this book speak clearly of the development in the last twelve months in the livestock systems worldwide. Major space is also devoted to the list of references from where every author can start to deepen his knowledge. This book is essential for libraries that want their readers to be easily updated. Also, scientists, policy makers and scientific writers who need to enhance their competence to have the most practical way of

knowing what is going on in the world in the field of livestock science and production will find this book of great value

THE SECOND REPORT ON THE STATE OF THE WORLD'S ANIMAL GENETIC RESOURCES FOR FOOD AND AGRICULTURE Food and Agriculture Organization of the United Nations, 2018-06-06 Animal genetic resource diversity underpins the supply livestock products and services across a wide range of production environments It promotes resilience and serves as a basis for adapting livestock management to changing conditions It is vital to livelihoods of many of the world's poor people It can contribute to the delivery of ecosystem services such as landscape management and the maintenance of wildlife habitats However it is often undervalued underused and under threat This report updates the global assessment provided in the first report on The State of the World's Animal Genetic Resources for Food and Agriculture published in 2007 It focuses particularly on changes that have occurred during the period since the first report was published It serves as a basis for a review and potential update of the Global Plan of Action for Animal Genetic Resources which since 2007 has provided an agreed international framework for the management of livestock biodiversity Drawing on 129 country reports it presents an analysis of the state of livestock diversity the influence of livestock sector trends on the management of animal genetic resources the state of capacity to manage animal genetic resources including legal and policy frameworks and the state of the art in tools and methods for characterization valuation use development and conservation **African Animal Genetic Resources** International Livestock Centre for Africa, 1992-01-01 *Southern African Development Community [2000 Consultative Conference Publications].*, 2000 *The Global Strategy for the Management of Farm Animal Genetic Resources* Food and Agriculture Organization of the United Nations, 1999

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