Phenotypic Characterization And Production Performance Of | 9cdd15151ab874c36ad2bf3c7f21d464

Agroecological Research for Sustainable Food Systems in Sri LankaCurrent and Future Reproductive Technologies and World Food Production

Phenotypic Characterization of Animal Genetic Resources

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Phenotypic Characterization of Animal Genetic Resources: Since the beginning of agricultural production, there has been a continual effort to grow more and better quality food to feed ever increasing population. Both improved cultural practices and improved crop plants have at least to divert more human resources to non-agricultural activities while still increasing agricultural productivity. The challenges are to increase crop yields per unit area, to continue to improve agricultural resources and make them better food by fewer people on less land. Both improvement of existing cultivars and development of new high-yielding cultivars are common goals for breeders of all crops. In vitro haploid production technologies that made it possible to produce many more crop plants in a single generation and one of the greatest plant breeding success stories of this century, i.e., the development of hybrid maize by crosses of inbred lines. One of the main applications of anther culture has been to produce haploid androgenetic plants. Such plants cannot be propagated vegetatively like normal diploid homozygous pure lines in a single generation, thus saving many generations to backcross homozygous by traditional means or in crops where self-pollination is not possible. Because the plants are equivalent to inbred lines, their value has been appreciated by plant breeders for decades. The search for natural haploids and methods to induce them has been ongoing since the beginning of the 20th century.

Phenotypic Characterization and Assessment of Management Practices of Indigenous Chicken in Jimma Zone The leading producer of broiler meat in the world and second to China in egg production, the last 10 years, the poultry industry produced $6.5 billion dollars of broiler meat and 8.8 billion table eggs. Besides genetics, the health status of the chicken accounts for ~67% of the production performance in birds. Poultry products have been linked with various foodborne outbreaks, including salmonellosis. Since the FDA has the ban of the use of antibiotics in food-producing animals, new approaches are needed to replace antibiotics as growth promoters. In this regard, lactic acid bacteria (LAB) have been demonstrated to impact several health benefits and could potentially be used as antibiotic alternatives to enhance production and improve health in poultry. However, most studies investigating the growth promotion effects of LAB in poultry have been limited to a single strain, and thus, research is needed to expand our understanding of the potential of LAB in poultry production.

The State of the World's Biodiversity for Food and Agriculture

Bacterial Microbiota of the Gut: Their Role In Health And Disease

In this book, the authors provide a comprehensive overview of the role of the gut microbiota in health and disease. They discuss the latest research findings on the gut microbiota and its impact on various aspects of human health, including digestion, immune function, and metabolism. The book also covers the impact of different dietary factors on the gut microbiota and the potential therapeutic uses of probiotics and prebiotics. It is an essential resource for researchers, clinicians, and anyone interested in the latest developments in gut microbiota research.

Current and Future Reproductive Technologies and World Food Production

Natural Beverages, Volume Thirteen, in the Science of Beverages series, takes a multidisciplinary approach to address the shifting beverage landscape towards the global trend of natural beverages. As global beverage consumption has progressed towards healthier and 'natural' ingredients, researchers and scientists need to keep up with the latest scientific developments and the proposed health benefits and improved effects. Classical examples are presented as a basis for innovation expansion to help new researchers understand this segment of the industry. This is a great resource for researchers and scientists in the beverages industry. Describes natural beverage production and its impact on nutritional health in light of both theoretical and scientific principles in the beverage industry.

Covers the production of all commonly consumed 'natural' beverages

The Origins and Development of African Livestock

Yeast

Cell Line Development

Nitrogen Cycle This book covers more than 40 indigenous goat breeds and several ecotypes around the globe and describes genotypic and phenotype traits related to species adaptation to harsh environments and climate change. It also addresses sustainable global farming of local goat breeds in different production systems and agro-ecosystems. Discussing three main global regions: Asia, Africa, and Europe, it focuses on the role of local goat breeds in sustainable farming systems and their potential contribution to food security. This book is a valuable resource for researchers, policymakers, and practitioners working in the field of sustainable agriculture and livestock development.

Antibiotics for non-treatment purposes in poultry, alternatives have been sought to replace antibiotics as growth promoters. In this regard, lactic acid bacteria (LAB) have been demonstrated to impact several health benefits and could potentially be used as antibiotic alternatives to enhance production and improve health in poultry. However, most studies investigating the growth promotion effects of LAB in poultry have been limited to a single strain, and thus, research is needed to expand our understanding of the potential of LAB in poultry production.

The State of the World's Biodiversity for Food and Agriculture

Biomaterials in Orthopedics, NanoSurgery, and Nanomedicine

This book covers the latest developments in biomaterials, including: an overview of naturally occurring or nature inspired biomaterials; an in-depth treatment of the surface aspects pivotal for the functionality; synthesis and properties of natural materials, making them suitable, for example, for biomedical devices or as scaffolds for tissue regeneration. The book comprehensively covers biomimetic approaches to the development of biomaterials, including: an overview of naturally occurring or nature inspired biomaterials; an in-depth treatment of the surface aspects pivotal for the functionality; synthesis and properties of natural materials, making them suitable, for example, for biomedical devices or as scaffolds for tissue regeneration. The book comprehensively covers biomimetic approaches to the development of biomaterials, including: an overview of naturally occurring or nature inspired biomaterials; an in-depth treatment of the surface aspects pivotal for the functionality; synthesis and properties of natural materials, making them suitable, for example, for biomedical devices or as scaffolds for tissue regeneration.

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Review of sheep research and development projects in Ethiopia The conversion of lignocellulosic biomass to renewable fuels and other commodities has provided an appealing alternative towards sustainable and renewable energy systems for many countries. In Ethiopia, numerous research projects have been carried out to investigate the potential of lignocellulosic biomass as a renewable energy source. Several studies have been conducted to evaluate the conversion of lignocellulosic biomass into biofuels. These studies have shown that enzyme technologies can be used to produce biofuels from lignocellulosic biomass. However, the conversion of lignocellulosic biomass to biofuels is a complex process that involves different steps, including pretreatment, hydrolysis, and fermentation. The use of enzyme technologies can significantly improve the efficiency of this process.

Mason's World Encyclopedia of Livestock Breeds and Breeding. 2 Volume Pack This book explores the current trends and challenges of sustainable goat meat and milk production in different global contexts, providing valuable insights into the production of goat meat and milk in various regions. The book covers the genetic diversity of goat breeds, the management of goat resources, and the economic aspects of goat farming. Written by renowned livestock authorities, these volumes draw on the authors' lifelong experiences and provide a comprehensive overview of the current state of goat farming.

The State of the World's Animal Genetic Resources for Food and Agriculture The State of the World's Animal Genetic Resources for Food and Agriculture provides a comprehensive overview of the current state of animal genetic resources, including livestock, poultry, and fish. The publication highlights the importance of animal genetic resources for food and agriculture, and the need to preserve and manage these resources to support sustainable food production. It also emphasizes the role of animal genetic resources in meeting the food needs of the growing global population.

Functional Characterization of the Probiotic Attributes of Lactobacillus Delbrueckii Subsp. Bulgaricus NRRL-B-545, L. Paracasei DUP-L1076, and L. Rhamnosus NRRL-B-442 and Their Potential Applications in Probiotic Formulations This publication presents the functional characterization of three probiotic strains, Lactobacillus Delbrueckii Subsp. Bulgaricus NRRL-B-545, L. Paracasei DUP-L1076, and L. Rhamnosus NRRL-B-442, and their potential applications in probiotic formulations. The publication includes data on the growth characteristics, fermentation properties, and antimicrobial activities of these strains, as well as their potential use in the development of probiotic products.

Goat Meat Production Systems, Technologies, and Marketing The production of goat meat is an important source of income for many farmers and smallholders in developing countries. This publication provides an overview of the current state of goat meat production, including the technologies and marketing systems used to produce and sell goat meat. The publication covers the biological, physiological, and economic aspects of goat meat production, as well as the marketing strategies used to sell goat meat products.

The potential impacts of climate change on the production and management of livestock. This publication provides an overview of the potential impacts of climate change on the production and management of livestock, including changes in temperature, precipitation, and disease incidence. The publication also discusses the potential strategies for adapting to climate change and improving the resilience of livestock systems.

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Towards Increased Use of Marka goat breed in the livestock farming and ocean ranching of marine fish, shellfish, crustaceans, and seaweed are a major and growing industry worldwide. In the United States, this sector contributes significantly to the nation’s economy. Aquaculture productivity, however, marine aquaculture has lagged behind. This book contains the obstacles to developing marine aquaculture in the United States and offers specific recommendations for technology and policy strategies to encourage this industry. The volume provides a wealth of information on the status of marine aquaculture—including comparisons between U.S. and foreign approaches to policy and technology and of the diverse species under culture. Marine Aquaculture also describes problems of coordination of regulatory policy among various federal, state, and local government agencies and escalating competition for the use of coastal waters. It addresses environmental concerns and suggests engineering and research strategies for alleviating negative impacts from marine aquaculture operations.

Review of goat research and development projects in Ethiopia

Developing sustainable value chains for small-scale livestock producers Goat science covers quite a wide range and varieties of topics, from genetics and breeding, via nutrition, production systems, to marketing and use of products on human health. In this book, the author puts together ten chapters within 18 different chapters. Molecular genetics and genetic improvement of goats are the new approaches of goat development. Several factors affect the passage rate of digesta in goats, but for diet properties, goats are similar to other ruminants. Insulin deficiency in goats could be dangerous. Assisted reproduction techniques have similar importance in goats like in other ruminants. Milk and meat production traits of goats are almost equally important and have significant positive impacts on human health. Many factors affect the health of goats, heat stress being of increasing importance. Production systems could modify all the abovementioned characteristics of goats.

The State of the World’s Biodiversity for Food and Agriculture Yeast: Industrial Applications is a book that covers applications and utilities of yeasts in food, chemical, energy, and environmental industries collected in 12 chapters. The use of yeasts in the production of metabolites, enzymatic applications, fermented foods, microorganism controls, bioethanol production, and bioremediation of contaminated environments is covered showing results, methodologies, and processes and describing the specific role of yeasts in them. The traditional yeast Saccharomyces cerevisiae is complemented in many applications with the use of less known Non-Saccharomyces yeasts that now are being used extensively in industry. This book compiles the experience and know-how of researchers and professors from international universities and research centers.

Biomimetic Approaches for Biomaterials Development Start-Up Creation: The Smart Eco-efficient Built Environment provides a state-of-the-art review on high-technology applications and explains how these can be applied to improve the eco-efficiency of the built environment. Divided into four main parts, the book explains the key factors behind successful start-up companies that grow from university research, including the development of a business plan, the importance of intellectual property, entrepreneurial skills, and innovative thinking. Part Two presents the latest research findings on nano and bio-based technologies and their application and use to the energy efficiency of the built environment. Part Three focuses on the use of genetic algorithms, Big Data, and the Internet of Things applications. Finally, the book ends with an entire section dedicated to App development using selected case studies that illustrate their application and use for monitoring building energy-efficiency. Presents a definitive guide for startups that arise from college and university research, and how the application of advanced technologies can be applied in the built environment includes case studies on new advanced technologies and apps development Links startup creation to the eco-efficient built environment through software applications

Natural Beverages

Animal Genetic Resources Information Anthropogenic activity has clearly altered the N cycle contributing (among other factors) to climate change. This book aims to provide new biological approaches representing innovative strategies to solve specific problems related to the imbalance originating in the N cycle. Aspects such as new conceptions in agriculture, wastewater treatment, and greenhouse gas emissions are discussed in this book with a multidisciplinary vision. A team of international authors with wide experience have contributed up-to-date reviews, highlighting scientific principles and their environmental importance and integrating different biological processes in environmental technology.

Marine Aquaculture Master’s Thesis from the year 2017 in the subject Aquaculture Studies, language: English; abstract: The study was conducted in Jimma zone of three Agro-ecology in six-selected farmer’s site in Jimma started from March to June 2017 with the aim to phenotypic ally characterize selected indigenous chicken, identify poultry management and breeding practices in three agro-ecologies of Jimma Zone. A survey was carried out on 180 randomly selected respondent as well as 555 heads of native chickens, (445 females and 105 males) for qualitative and quantitative trait measurements. In Ethiopia, the agricultural sector is a cornerstone of the economic and social life of the people. The livestock sector in Ethiopia contributes 12% and 33% of the total and agricultural Gross Domestic Product (GDP), respectively, and provides livelihood for 85% of the population. The sector also accounts for 12-15% of the total export earnings. These livestock genetic resources are important or vital to development of the economic, social and environmental of the one country. The agro-ecology and agro-practices prevailing in the country together with the huge population of livestock in general and poultry in particular, could be a promising attribute to boost up the sector and increase its contribution to the total agricultural output as well as to the domestic GDP. The small size, and quality of the livestock systems in terms of productivity and production, has a significant role in contributing livestock to contribute to the household economy. This is mainly due to their small size and fast reproduction compared to most other livestock and its well fitness with the concept of small-scale agro-ecological development. Moreover, it goes eco-friendly and does not compromise arable lands. The majority of indigenous chickens in the tropics are maintained under village chicken production systems. These production systems are typically characterized by low input and low output systems, mainly in terms of egg and meat production.

Strategic Planning Process 1999 The mission of the Animal Genetic Resources Information Bulletin is the promotion of information on the better use of animal genetic resources of interest to food and agriculture production. - L'objectif du Bulletin d'information sur les ressources génétiques animales est la vulgarisation de l'information disponible sur la meilleure gestion des ressources génétiques animales de l'intérêt pour la production alimentaire et agricole. - El objetivo del Boletín sobre Recursos Genéticos Animales es la divulgación de la información sobre una mejor gestión de los recursos genéticos animales de interés para la producción alimentaria y agrícola. 

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