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GAIGE ANIYAH

Aptamers Concept
Publishing Company

There are currently many controversial socioeconomic issues concerned with the development and implementation of agricultural biotechnology. This

book presents selected revised and edited papers from the fourth and fifth meetings of the International Consortium on Agricultural Biotechnology Research, held in Italy in 2000 and 2001.

Fermented Milk and Dairy Products

Academic Press
Advances in Animal Genomics provides an outstanding collection of integrated strategies involving traditional and modern - omics (structural, functional, comparative and epigenomics) approaches and genomics-assisted breeding methods which animal biotechnologists can utilize to dissect and decode the molecular and gene regulatory networks involved in the complex

quantitative yield and stress tolerance traits in livestock. Written by international experts on animal genomics, this book explores the recent advances in high-throughput, next-generation whole genome and transcriptome sequencing, array-based genotyping, and modern bioinformatics approaches which have enabled to produce huge genomic and transcriptomic resources globally on a genome-wide scale. This book is an important resource for researchers, students, educators and professionals in agriculture, veterinary and biotechnology sciences that enables them to solve problems regarding sustainable development with the help of current

innovative biotechnologies. Integrates basic and advanced concepts of animal biotechnology and presents future developments Describes current high-throughput next-generation whole genome and transcriptome sequencing, array-based genotyping, and modern bioinformatics approaches for sustainable livestock production Illustrates integrated strategies to dissect and decode the molecular and gene regulatory networks involved in complex quantitative yield and stress tolerance traits in livestock Ensures readers will gain a strong grasp of biotechnology for sustainable livestock production with its well-illustrated

discussion
Sustainable Agriculture Reviews 54 Academic Press
This book covers a range of important topics on crop and animal genetics, breeding and genomics, as well as biodiversity and genetic resources conservation and utilization reflecting three thematic sections of working groups of the Biotechnology Society of Nigeria. The topics range from agricultural biotechnology, including genetically modified organisms and gene-editing for agronomically important traits in tropical crops, to Nigeria's mega biodiversity and genetic resources conservation. This book will engender a

deeper understanding of underpinning mechanisms, technologies, processes and science-policy nexus that has placed Nigeria as a leader in biotechnology in Africa. The book will be useful reference material for scientists and researchers working in the fields of food and agricultural biotechnology, bioinformatics, plant and animal genetics, breeding and genomics, genetic resources conservation and enhancement. Emphasizes recent advances in biotechnologies that could ameliorate the high-level global food and nutrition insecurity through plant and animal genetics, breeding, as well as genomics Provides

detailed information towards harnessing indigenous bioresources for food and nutrition security and climate change adaptation Introduces new frontiers in the area of genomics, most especially their relevant applications in crop and animal breeding Reviews biotechniques that could enhance plant genetic resources conservation and utilization Discusses current biotechnological approaches to exploit genetic resources including the development of synthetic hexaploid wheat (SHW) for crop adaptation to the increasingly changing global climate Olawole O. Obembe, Ph.D., is a Professor of Plant Biotechnology and

UNESCO Chair, Plant Biotechnology, Covenant University Ota, Nigeria. Emmanuel Olufemi Ekundayo, Ph.D., is Associate Professor of Medical Microbiology and Microbial Genetics, Michael Okpara University of Agriculture, Umudike, Nigeria. Arinze Stanley Okoli, Ph.D., is Associate Professor at Genoek – Centre for Biosafety, Universitetet II, Breivika, Tromsø, Norway. Abubakar Gidado, Ph.D., is Professor of Biochemistry and Director North-East Zonal Biotechnology Centre of Excellence at the University of Maiduguri, Nigeria. Charles Oluwaseun Adetunji, Ph.D., is Associate Professor of Microbiology and Biotechnology and

Director of Intellectual Property and Technology Transfer, Edo State University, Uzairue, Nigeria. Abdulrazak B. Ibrahim, Ph.D., is a Capacity Development Expert at the Forum for Agricultural Research in Africa (FARA) and Associate Professor of Biochemistry, Ahmadu Bello University, Zaria, Nigeria. Benjamin Ewa Ubi, Ph.D., is a Professor of Plant Breeding and Biotechnology and Director, Biotechnology Research and Development Centre, Ebonyi State University Abakaliki, Nigeria. *Educational Infrastructure for Biotechnology in India* Frontiers Media SA Animal Biotechnology: Models in Discovery and Translation, Second Edition,

provides a helpful guide to anyone seeking a thorough review of animal biotechnology and its application to human disease and welfare. This updated edition covers vital fundamentals, including animal cell cultures, genome sequencing analysis, epigenetics and animal models, gene expression, and ethics and safety concerns, along with in-depth examples of implications for human health and prospects for the future. New chapters cover animal biotechnology as applied to various disease types and research areas, including in vitro fertilization, human embryonic stem cell research, biosensors, enteric diseases,

biopharming, organ transplantation, tuberculosis, neurodegenerative disorders, and more. Highlights the latest biomedical applications of genetically modified and cloned animals, with a focus on cancer and infectious diseases. Offers first-hand accounts of the use of biotechnology tools, including molecular markers, stem cells, animal cultures, tissue engineering, ADME and CAM Assay. Includes case studies that illustrate safety assessment issues, ethical considerations, and intellectual property rights associated with the translation of animal biotechnology studies. Objective Genetics, Biotechnology, Biochemistry and Forestry Springer

The book discusses the basics of aptamers and the advent of aptamer-based technology in recent times. The book covers the diverse applications of aptamers, such as in detection of animal and plant pathogens, disease diagnosis and therapeutics, environmental contamination detection etc. Besides these applications, the book also describes the use of these synthetic or modified DNA, as drug delivery vehicles. The different chapters describe how the binding capacity and specificity of aptamers can be exploited in various ways. The book also discusses how these attributes of aptamers can outdo the antibody technology in biomedical and

diagnostic solutions. This crisp and concise book gives the readers an insight into the most recent biotechnological applications of aptamers.

**Biosecurity
Challenges of the
Global Expansion of
High-Containment
Biological
Laboratories**

Textbook of Animal Biotechnology
During July 10-13, 2011, 68 participants from 32 countries gathered in Istanbul, Turkey for a workshop organized by the United States National Research Council on Anticipating Biosecurity Challenges of the Global Expansion of High-containment Biological Laboratories. The United States Department of State's

Biosecurity Engagement Program sponsored the workshop, which was held in partnership with the Turkish Academy of Sciences. The international workshop examined biosafety and biosecurity issues related to the design, construction, maintenance, and operation of high-containment biological laboratories-equivalent to United States Centers for Disease Control and Prevention biological safety level 3 or 4 labs. Although these laboratories are needed to characterize highly dangerous human and animal pathogens, assist in disease surveillance, and produce vaccines, they are complex systems with inherent

risks. Biosecurity Challenges of the Global Expansion of High-Containment Biological Laboratories summarizes the workshop discussion, which included the following topics: Technological options to meet diagnostic, research, and other goals; Laboratory construction and commissioning; Operational maintenance to provide sustainable capabilities, safety, and security; and Measures for encouraging a culture of responsible conduct. Workshop attendees described the history and current challenges they face in their individual laboratories. Speakers recounted steps they were taking to improve safety and security, from running

training programs to implementing a variety of personnel reliability measures. Many also spoke about physical security, access controls, and monitoring pathogen inventories. Workshop participants also identified tensions in the field and suggested possible areas for action.

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Advances in Animal Disease Diagnosis: Infectious animal diseases caused by pathogenic microorganisms such as bacteria, fungi, and viruses threaten the health and well-being of wildlife, livestock

and human populations, limit productivity and significantly increase economic losses to each sector. Pathogen detection is an important step for the diagnosis and successful treatment of animal diseases as well as control management in farm and field conditions. The conventional techniques employed to diagnose pathogens in livestock species are time-consuming and sometimes give inconclusive results. On the contrary, molecular techniques have the potential to diagnose known pathogens/conditions quickly, reliably, and unequivocally as well as for novel pathogen detection. New advances in diagnostics and

vaccine design using genomics have developed powerful new methods that have also set the stage for the enhanced diagnosis, surveillance, and control of infectious diseases. High-throughput sequencing (HTS), for example, uses the latest DNA sequencing platforms in the detection, identification, and detailed analysis of both pathogen and host genomes. This book will explore some key opportunities in the context of animal health, such as the detection of new microorganisms and the development of improved diagnosis of emerging or re-emerging diseases and other clinical conditions, viz. biosensors, nanotools,

and omics technologies. Features

- Details comprehensive knowledge on the latest molecular techniques for animal disease diagnosis and management
- Examines how DNA-based diagnostic techniques will assist international efforts to control the introduction of exotic diseases into new geographic areas
- Describes the latest molecular assays for the rapid and accurate detection of pathogens
- Helps in working towards meeting the global challenge for sustainable food production and the eradication of poverty
- With new biotechnological developments, this fully updated book is a treasure trove of the latest information in

animal and medical science
Animal Biotechnology for Livestock Production 1 Frontiers Media SA
The agricultural and forestry processing wastes (lignocellulosics) are an important material resource and energy source. However, if untreated they can pose a danger to the environment and potentially valuable resources. Microorganisms contribute significantly to the problem of biomass degradation, its recycling and conservation. In the recent years, an increasing interest shown by the textile, food, feed & pulp and paper industries in the microbial and enzymatic processes has triggered in-depth

studies of lignocellulolytic microorganisms and their enzymes. Moreover, the advent of recombinant DNA technology in the late 1970s further paved the way for developing technologies based on lignocellulolytic microbes and enzymes. Lignocellulose Biotechnology presents a comprehensive review of the research directed towards potential and environment friendly agricultural and forest byproducts. The book comprises 22 chapters, divided in four sections. It deals with a wide range of topics including biodiversity of lignocellulose degrading microorganisms and their enzymes, molecular biology of

biodegradation of lignin, characterization of lignocellulolytic enzymes, bioconversion of plant biomass to produce enzymes, animal feed, bioethanol and industrial applications of lignocellulolytic enzymes. The chapters dealing with industrial applications also address current biotechnological approaches in lignocellulose bioconversion to value added products. This book is essential reading for students, researchers, scientists and engineers working in the areas of environmental microbiology, environmental biotechnology, life sciences, waste management and biomaterials.

Experience and

Future Prospects

Springer Science & Business Media

This book comprehensively reviews the advancements in biotechnological applications for the enhanced production and conservations of buffalo (*Bubalus bubalis*). The book discusses developments in assisted reproduction to improve productivity and the produce novel products for applications to human health and nutrition. The initial chapters of the book discuss the global distribution and domestications of buffalo, and nutritive values of buffalo milk, while the subsequent sections examine the applications of the genome-wide association traits to

identify potential genetic variants affecting important economic traits. It identifies predictive biomarkers for postpartum or peripartum diseased-state and presents potential protein biomarkers for the diagnosis of early pregnancy in buffalo. Lastly, it discusses recent scientific developments such as induced pluripotent stem cells, spermatogonial stem cells, somatic cell nuclear transfer, and buffalo as a model for human biomedical research. This book is a useful source to students, academicians, researchers, and policymakers who are involved in buffalo science and industry. Models in Discovery

and Translation

Springer

With reference to India.

Biotechnological Applications in Buffalo Research Springer

This book reviews concepts and recent advances of biotechnological approaches for livestock production. Indeed, biotechnologies have recently emerged as powerful tools for animal breeding, genetics, production, nutrition, and animal health. Applications to the production of livestock such as cattle, camel, and poultry are detailed. Chapters also present biotechnological applications for diagnostics, animal nutrition, and animal food production. *Emerging Issues in Climate Smart*

Livestock Production
Academic Press
Written in easy to follow language, the book presents cutting-edge agriculturally relevant plant biotechnologies and applications in a manner that is accessible to all. This book introduces the scope and method of plant biotechnologies and molecular breeding within the context of environmental analysis and assessment, a diminishing supply of productive arable land, scarce water resources and climate change. Authors who have studied how agro ecosystems have changed during the first decade and a half of commercial deployment review effects and stress needs that must be

considered to make these tools sustainable.
Advances in Animal Genomics Educreation Publishing
This publication will be most helpful to students preparing for ARS/ICAR-NET and other competitive examinations related to plant science.
Molecular Biomarkers in Animal Reproduction
National Academies Press
This volume addresses in detail both livestock's role in climate change and the impacts of climate change on livestock production and reproduction. Apart from these cardinal principles of climate change and livestock production, this volume also examines the various strategies used to mitigate livestock-related GHG emissions,

and those which can reduce the impacts of climate change on livestock production and reproduction. Presenting information and case studies collected and analyzed by professionals working in diversified ecological zones, the book explores the influence of climate change on livestock production across the globe. The most significant feature of this book is that it addresses in detail the different adaptation strategies and identifies targets for different stakeholders in connection with climate change and livestock production. Further, it puts forward development plans that will allow the livestock industries to cope with current climate changes and

strategies that will mitigate the effects by 2025. Lastly, it provides researchers and policymakers several researchable priorities to help develop economically viable solutions for livestock production with less GHG emissions, promoting a cleaner environment in which human beings and livestock can live in harmony without adverse effects on productivity. Given that livestock production systems are sensitive to climate change and at the same are themselves a contributor to the phenomenon, climate change has the potential to pose an increasingly formidable challenge to the development of the livestock sector. However, there is a

dearth of scientific information on adapting livestock production to the changing climate; as such, well-founded reference material on sustaining livestock production systems under the changing climate scenarios in different agro-ecological zones of the world is essential. By methodically and extensively addressing all aspects of climate change and livestock production, this volume offers a valuable tool for understanding the hidden intricacies of climatic stress and its influence on livestock production.

Understanding Life Phenomena I. K.

International Pvt Ltd
Proceedings of the expert consultation prepared by the Animal Production and Health

Division, FHO. Topics covered by the contributors include: biotechnology the frontiers of knowledge and methodologies, animal reproduction, animal genetics, animal growth, lactation, and fiber production, animal nutr
DARE/ICAR Annual Report Springer

The present book has been designed to serve the students of Plant Breeding, Genetics, Biotechnology, Biochemistry and Forestry. In most of the books, the objective type questions judge the students on the basis of their ability to memorize, because of the way they are formulated. It is important to be able to remember the year of historical events, the scientists involved and who named what to

make one remember the landmark contributions of the people on a particular subject. Along with these kinds of questions, majority of the questions in this book have been designed to assess the candidate's understanding of the subject. It is perhaps for the first time where questions have four to six choice statements, which are to be understood to find the right answer. One has to think and remember what he has learnt to be able to answer these questions. There are some books on objective type questions on the subject of Plant Breeding and a very few on Genetics but there is hardly any book, which deals with Tissue Culture,

Biotechnology, Biochemistry or Forestry. All these subjects are related as many postgraduate students of Genetics and Plant Breeding take Biotechnology as a minor subject whereas those of Biotechnology take Biochemistry or Genetics and Plant Breeding as a minor subject. Also, undergraduates in agricultural universities study courses on all these subjects including Forestry *Biological Tools and Techniques* New India Publishing Agency This book entitled, "Advances in Animal Biotechnology," is a compilation of state-of-the-art in the field of Animal Biotechnology including fishery, that are not sheltered in depth in earlier

publications. It offers an update on avant-garde technologies and advances in key aspects of genetic engineering, metagenomics, assisted reproduction, animal genomics, biotechnology in veterinary health, as well as the role of gut and marine microbial ecosystems in livestock and industrial development. The book is divided broadly into five different sections, viz., Gut Microbiome and Nutritional Biotechnology, Assisted Reproduction Biotechnology, Livestock Genomics, Health Biotechnology, and Animal Biotechnology in Global Perspective. The book covers the syllabi of Animal Biotechnology courses in various universities, academia

and competitive examinations at various levels. Researchers, Continuing Graduates, and Academicians, Research Institutions, and Biotech Companies will be benefited from this valuable compilation of research. Its broad spectrum makes this work a valuable resource for professionals, researchers, academics and students in the field of veterinary and animal production as well as the biotechnology industry.

Biotechnology for Sustainable Agriculture
Springer Nature
Textbook of Animal Biotechnology
The Energy and Resources Institute (TERI)
Emerging Approaches and

Strategies Springer Nature Biotechnology for Sustainable Agriculture: Emerging Approaches and Strategies is an outstanding collection of current research that integrates basic and advanced concepts of agricultural biotechnology with future development prospects. Using biotechnology with sustainable agriculture effectively contributes to gains in agricultural productivity, enhanced food security, reduced poverty and malnutrition, and more ecologically sustainable means of food production. Written by a panel of experts, this book is unique in its coverage of the broad area of biotechnology for sustainable agriculture.

It includes intriguing topics and discussions of areas such as recombinant DNA technology and genetic engineering. Identifies and explores biotechnological tools to enhance sustainability Encompasses plant and microbial biotechnology, nanotechnology and genetic engineering Focuses on plant biotechnology and crop improvement to increase yield and resilience Summarizes the impact of climate change on agriculture, fisheries and livestock *Applied Biotechnology* I. K. International Pvt Ltd Emerging Issues in Climate Smart Livestock Production: Biological Tools and Techniques furnishes a detailed reference on

livestock sustainability and the role of biotechnology for creating more sustainable livestock production systems. The book is a collection of scientific techniques, including genetic engineering used to modify and improve animals, fishes, and microorganisms for human benefit. The book is particularly attractive for scientists, researchers, students, educators, and professionals in agriculture, veterinary, and biotechnology science. This book promotes several biotechnological approaches that can easily be evaluated in the field for quality assurance programs beneficial to producing

livestock products and overall public health. Biotechnology has the potential to improve the productivity of animals via increased growth, carcass quality and reproduction, improved nutrition and feed utilization, improved food quality and safety, improved animal health and welfare, and reduced waste through more efficient utilization of resources. Identifies and explores biotechnological approaches for sustainable livestock and fish production. Focuses on strategies for enhancing livestock and fishery productivity and sustainability. Presents the latest research on modern methods and technologies.