
Icar Animal Biotech Previous Year Question Papers

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Biosecurity Challenges of the Global Expansion of

High-Containment Biological Laboratories

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GIOVANNA HOOD

Genomics and Biotechnological Advances in Veterinary, Poultry, and Fisheries

Springer Nature
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.

Veterinary Microbiology & Parasitology Concept Publishing Company
This book discusses the prominence and implication of the viral diseases that are a major threat to animals around the globe. A number of these diseases have also shown links with human populations, which has implications for public health. This book offers detailed and up-to-date

information on viral diseases in livestock and poultry that were and/or are still a problem. Including cutting-edge developments, it also highlights several landmark contributions in the field of virology from India.

Additionally, the book features tables and figures showing important clinical data and recommendations, with references for further information. It also explores the economic impact of viral diseases for farmers and the livestock industry, providing several examples. Further, it presents the latest information on viral diseases in global context, with a focus on state-of-art, molecular tools for the development of

diagnostics, prophylactics and therapeutics. Lastly, the book also describes the challenges posed by the emerging and transboundary viral infections and our preparedness to counter them.

Dairy Processing:
Advanced Research to
Applications Springer
Nature

This 2nd book provides fundamental concepts and recent applications of biotechnological methods, such as genetic selection, breeding methods and genetic engineering tools. Biotechnology has remarkably improved the productivity of livestock by increasing the reproduction efficiency and decreasing the generation time. The chapters detail the

mechanisms of methods for animal reproduction and breeding methods. This book focus on the impact of minerals, steroids metabolic stress, nutritional stress and anti-nutritional factors on the livestock reproduction.

Sustainable Agriculture Reviews

57 Springer Nature
Zusammenfassung: This edited volume covers all major topics related to agri-food transformation towards sustainability in this era of climate change. The topics cover field crops, horticultural crops, livestock sector, nutritional aspects, application of latest field-based technologies, and agriculture related policies and institutions. Some of

the key topics are:
Innovations for Reconfiguring Food Systems; Transforming High-value Food Commodities; Demand-Supply of Agri-food Commodities; Balancing Human Demand and Ecological Sustainability; International Partnership for Transformation of Agri-Food Systems; Transforming Animal Health and Aquatic Food Systems for Food Security; Climate Resilient Agriculture; Addressing Nutritional Security through Natural Resource Management; Water Harvesting and Improving Water Productivity; Combating Micronutrient Deficiencies; Plant Genetic Resources for Food Security and

Nutrition; Genome Editing for Crop Improvement; and Biosafety and Socioeconomic Considerations. Written by experts, this book serves in exchanging and sharing the latest research findings, ideas and experiences on all aspects of agri-food systems to enable the formulation of the ways forward to transform our agri-food system to meet the Sustainable Development Goals (SDGs) of the United Nations by 2030. The target audience include academicians, researchers, students, farmers, entrepreneurs, policy makers, and others

Recent Advances in Animal Virology CRC Press

This book describes the importance of

sustainable livestock production from a food security perspective in the changing climate scenario. It covers the amelioration of climate change impacts and describes the various mitigation strategies to reduce enteric methane emissions. The book targets sustainable livestock production by covering diverse concepts of amelioration, mitigation, and policy up-gradation. Further, it examines various adverse impacts of climate change on growth, meat, milk, and reproduction in livestock. Most importantly, the book covers novel aspects of quantifying heat stress response of livestock based on non-invasive methodologies, including infrared thermal imaging,

sensor-based applications, hair, urine, and fecal cortisol estimation. Particular emphasis was given to describing the skin-based novel approaches to establish climate resilience in indigenous breeds. The book provides detailed descriptions of alleviating climate change impacts on shelter management, nutritional interventions, and genetics-based strategies involving advanced genomic tools. Lastly, it highlights the livestock species which could be considered ideal climate-resilient animal models to withstand the adversities associated with climate change.

Biotechnological Advances in

Aquaculture Health Management Springer
Genomics and Biotechnological Advances in Veterinary, Poultry, and Fisheries is a comprehensive reference for animal biotechnologists, veterinary clinicians, fishery scientists, and anyone who needs to understand the latest advances in the field of next generation sequencing and genomic editing in animals and fish. This essential reference provides information on genomics and the advanced technologies used to enhance the production and management of farm and pet animals, commercial and non-commercial birds, and aquatic animals used for food and research purposes. This

resource will help the animal biotechnology research community understand the latest knowledge and trends in this field. Presents biological applications of cattle, poultry, marine and animal pathogen genomics Discusses the relevance of biomarkers to improve farm animals and fishery Includes recent approaches in cloning and transgenic cattle, poultry and fish production

Textbook of Veterinary Physiology Woodhead Publishing

The second edition of Objective Genetics, Biochemistry and Forestry is an up-to-date version in which many new questions have been added along with those on related topics, such as Natural Selection, Genetics and

Evolution, General Genetics, Plant Breeding, Microscopy, Cell Division, Mendelism, DNA Biotechnology, Biochemistry, Forestry, and Tissue Culture, etc. This book has 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 the questions. In most of the competitive examinations such as Agriculture Research Services of Indian Council of Agricultural Research, NET, State Eligibility Test and Civil Services Examination, etc. Objective type

questions are asked. Also, the entrance test for admission to many universities are totally objective.

Textbook of Animal Biotechnology

Springer Nature

Numerous pathogens affect animal health and wellbeing and production efficiency. These pathogens also have a considerable impact on social economics, food safety and security, and human health.

Infectious diseases that originate from both domesticated animals and wildlife represent one of the greatest threats to human health. Recent studies show that domesticated species harbor approximately 84 times more zoonotic viruses than wild species. Eight of the top 10 mammalian

species with the highest number of zoonotic viruses are domestic, such as pigs, cattle, and horses.

Many animal parasites are also zoonotic, constituting an additional burden on human health.

Furthermore, the rapid emergence and spread of drug-resistant pathogen strains pose new threats to animal and human health. Climate changes will undoubtedly alter the interactions between animals and between animals and humans, which will have a huge impact on the transmission rate of existing pathogens and the emergence of new pathogens or the reemergence of old pathogens. In this special collection, interactions of all major pathogen types,

including viruses, bacteria, mites and flies, protozoans, and helminths, and their hosts, such as wild and companion animals and livestock species, are discussed. Further, anthelmintic activities of natural products are evaluated. The relevance and utility of cutting-edge tools, such as immunology, genomics and genetics, microbiome studies and metabolomics, and molecular epidemiology, in dissecting host-pathogen interactions are also discussed. This special collection provides a broad knowledge base that encourages dialogue across a wide distribution of the research community in veterinary microbiology and

parasitology.

**Genomic,
Proteomics, and
Biotechnology**

Academic Press

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.

Breeding, Biotechnology and Seed Production of Field Crops Frontiers Media SA

Antimicrobial resistance (AMR) is a global public health threat. The menace of antimicrobial resistance is present across health, animal, agriculture, food, and environment sectors. It, therefore, requires an inter-disciplinary combat approach- the one health approach, envisaged by the FAO-UNEP-WHO-WOAH Quadripartite (Food and Agriculture Organization of the United Nations (FAO), the UN Environment Programme (UNEP), the World Health

Organization (WHO) and the World Organisation for Animal Health (WOAH). This comprehensive reference book provides a thorough understanding of antimicrobial resistance across different sectors. It presents deep insights and gives a global perspective on antimicrobial resistance for policymakers. The book offers essential and up-to-date information that enables researchers from multiple fields to design research on antimicrobial resistance. The book discusses molecular mechanisms and antibiotic resistance genes of significant antimicrobial-resistant pathogens, regulatory frameworks available

worldwide, and mitigation strategies across the sectors, including probiotics, prebiotics, antimicrobial peptides, bacteriophages, phytochemical compounds, immunostimulants, vaccines, bacteriocins, etc. It compiles essays from leading experts in the field of antimicrobial resistance research. The book is meant for students and researchers in microbiology, medical microbiology, and public health. It is also helpful for clinicians and policymakers. *DARE/ICAR Annual Report* The Energy and Resources Institute (TERI)
This book focuses on advanced research and technologies in dairy processing, one of the

most important branches of the food industry. It addresses various topics, ranging from the basics of dairy technology to the opportunities and challenges in the industry. Following an introduction to dairy processing, the book takes readers through various aspects of dairy engineering, such as dairy-based peptides, novel milk products and bio-fortification. It also describes the essential role of microorganisms in the industry and ways to detect them, as well as the use of prebiotics, and food safety. Lastly, the book examines the challenges faced, especially in terms of maintaining quality across the supply chain. Covering all significant areas of

dairy science and processing, this interesting and informative book is a valuable resource for post-graduate students, research scholars and industry experts.

Climate Change and Livestock

Production: Recent Advances and Future Perspectives

Springer Nature Engineering Applications in Livestock Production covers the recent advancements and technological developments in the field of livestock production engineering in great detail. The major advances covered in this book include the use of artificial intelligence, image processing, Internet of Things, novel animal product

processing technologies, farm automation systems, sensor technology, bioengineering practices and even engineered housing systems among others. The book includes applications of emerging sensor based and intelligent techniques/systems in the field of livestock production and management. The book will have separate chapters dedicated to innovative approaches in the livestock sector such as artificial intelligence, micro and nano sensors, IoT, image processing and farm automation. Specialists' contribution of chapters provides comprehensive details while assisting the understanding of the concepts.

Molecular

Biomarkers in Animal Reproduction

Oswaal Books

This book comprehensively discusses the applications of molecular genetics, functional and structural genomics, and proteomics vis-a-vis bioinformatics, artificial intelligence, and robotics in livestock healthfulness and productivity. It reviews the biotechnological approaches in veterinary sciences for increasing productivity and resistance to disease. The book emphasizes the approaches based on artificial intelligence to analyze the data collected on animals, pathogens, and their environment. It underscores artificial intelligence.

applications in disease diagnosis, epidemiological studies, and detecting biological phenomena, including heat-detection, pregnancy, docility, and infections. Further, the book examines the genomics and proteomics approaches for understanding the gut microbiota and the role of pathogen-host interactions in animal health and disease. Lastly, it explores both pathogenic and non-pathogenic microbial transfer between humans, animals, and the environment across one health spectrum.

Objective Genetics, Biotechnology, Biochemistry And Forestry Academic Press

Antimicrobial resistance (AMR) is one

of the deadliest threats to global public health. This book focuses on dynamics in the landscape of AMR while informing about the latest technologies and strategies to mitigate it. The menace of AMR in different niches, routes of penetration across various domains, socio-economic impact, and the need for a 'One Health' approach in mitigating AMR has been emphasized. Factors involved in AMR, underlying mechanisms, and pharmacometrics in developing antimicrobials are highlighted. Emphasis is given to emerging technologies that are sustainable, scalable, and applicable to the global community, such as big data analytics, bioactive

agents, phage therapy, and nanotechnology. The book also explores current and alternative treatment strategies to combat AMR, emphasizing the use of nanoparticles to target pathogens and as a viable alternative to antibiotics.

Frontiers in Aquaculture Biotechnology CRC Press

Animal biotechnology is an integral component of agriculture. Supported with over 50 figures and more than 30 tables, this textbook is a must have for undergraduates and postgraduates of various agriculture and animal husbandry academia, teachers, professionals, and researchers in basic as well as applied animal sciences including

biotechnology, nutrition, physiology and reproduction. The book covers various topics, including economically important livestock breeds, paradigm shifts in livestock production, biotechnology in animal nutrition and in livestock-assisted reproduction, and genomics and genetic engineering tools in livestock production and management.

Fermented Milk and Dairy Products

Springer Nature
Description of the Product: • Crisp Revision with Concept-wise Revision Notes & Mind Maps • 100% Exam Readiness with Previous Years' Questions from all leading • • • • Olympiads like IMO, NSO, ISO & Hindustan Olympiad. • Valuable

Exam Insights with 3 Levels of Questions- Level 1, 2 & Achievers • Concept Clarity with 500+ Concepts & 50+ Concepts Videos • Extensive Practice with Level 1 & Level 2 Practice Papers

Biotechnological Interventions
Augmenting Livestock Health and Production
 Springer Nature

The dependency on animal biotechnology in livestock industries has been increased in the recent past. The livestock production research has witnessed remarkable developments on biotechnological methods to produce the elite animal breeds. The global animal food requirement has been steadily increasing, and animal production needs to be increased

as per the global needs. This book covers various aspects of animal biotechnology such as, reproductive biotechnologies in sheep and goats, oogenesis and folliculogenesis and ovarian disorders. This book focusses the discussion on proteomics and metabolomics, and separate chapters were dedicated to discuss these topics. The proteomics studies of animal viruses were discussed in this book, and this would be helpful to understand animal viral pathogenesis. The applications of metabolomics in livestock were discussed with focus on data analysis, identification of unknown compounds.

The purpose of this book is to provide the recent research trends, and convert all this information to usable guide to professionals, researchers and students who are working the research area of animal biotechnology.

Advances in Genomics of Crossbred Farm Animals Academic Press

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

Aptamers Springer
This textbook explores the fundamental qualitative and quantitative aspects of veterinary physiology. It presents the morphological description of the organs, tissues, and cells involved in the physiological system with species variation. The book provide the most up-to-date information and in depth knowledge in animal physiology. The book addresses a broad range of topics, including the physiology of digestion in, monogastric animals, ruminants, and birds, and cardio vascular and respiratory system in different animals. The

chapters contain a wealth of information on the areas related to the endocrine system, excretory system, body fluid homeostasis, hematology, male and female reproductive systems, coordination of body functions, and regulation of brain functions and sense organs. Further, this book acquaints students with advanced topics like immune system, assisted reproductive technology, ovarian dynamics, environmental physiology and thermoregulation, and behavioral physiology. This textbook contains clear illustrations including graphical abstracts and study questions for each chaptermaking this book a valuable learning resource for

veterinary sciences and veterinary medicine students. Further to attract students and create interest in them, interesting facts related to animal physiology have also been highlighted in form of “Know more widges”.

Sustainable Agriculture Reviews 59 Frontiers Media SA

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.

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