

Book Title (ID 2024_15)

Modern Poultry Science: Integrating Genetics, Nutrition and Management

About the Book

The book provides a comprehensive overview of contemporary poultry production, covering key areas such as the evolution and improvement of poultry breeds, advances in genomic selection and gene editing, and the role of epigenetics. It examines nutritional requirements, innovative feed formulations, and the use of prebiotics and probiotics. The book also addresses best practices in housing, biosecurity and welfare standards, alongside strategies for disease prevention and control. Market challenges, including economic issues, global trade impacts, consumer preferences and sustainability, are critically analyzed. Current research topics like poultry immunology, climate change effects, microbiome research and reducing antibiotic use are explored. Integrative themes highlight the synergy between genetics and nutrition, genotype-environment interactions and precision farming. With case studies and practical applications, the book offers valuable insights for researchers, industry professionals and students, addressing both scientific advancements and practical challenges in poultry science.

Theme outlines but not limited to:

Theme 1: Diversity and Evolution of Poultry Breeds

Theme 2: Heritage Breeds in Modern Poultry Production

Theme 3: Genetic Improvement of Commercial Poultry Breeds

Theme 4: Hybrid Poultry: Advantages and Challenges

Theme 5: Emerging Breeds for Sustainable Poultry Production

Theme 6: Genomic Selection in Poultry: Techniques and Applications

Theme 7: CRISPR and Gene Editing in Poultry

Theme 8: Epigenetics and Its Role in Poultry Development

Theme 9: Genetic Markers for Disease Resistance in Poultry

Theme 10: Breeding for Behavioral Traits in Poultry

Theme 11: Advances in Poultry Nutrition: From Feed to Food

Theme 12: Nutritional Requirements for Different Poultry Species

Theme 13: Feed Formulation and Optimization for Poultry

Theme 14: Role of Prebiotics and Probiotics in Poultry Nutrition

Theme 15: Nutritional Strategies to Enhance Poultry Product Quality

Theme 16: Best Practices in Poultry Housing and Environment

Theme 17: Biosecurity Measures in Poultry Farming

Theme 18: Automation and Precision Farming in Poultry Management

Theme 19: Welfare Standards and Ethical Considerations in Poultry Management

Theme 20: Optimizing Reproductive Performance in Poultry

Theme 21: Common Poultry Diseases: Prevention and Control

Theme 22: Avian Influenza: Threats and Mitigation Strategies

Theme 23: Managing Bacterial and Viral Infections in Poultry

Theme 24: Parasitic Infestations in Poultry: Diagnosis and Treatment

Theme 25: Innovative Vaccination Strategies in Poultry Health Management

Theme 26: Economic Challenges in the Poultry Industry

Theme 27: Impact of Global Trade on Poultry Markets

Theme 28: Consumer Preferences and Trends in Poultry Products

Theme 29: Regulatory and Policy Issues Affecting Poultry Production

Theme 30: Sustainability and Environmental Impact of Poultry Farming

Theme 31: Emerging Research in Poultry Immunology

Theme 32: Novel Feed Ingredients and Their Impact on Poultry Health

Theme 33: Climate Change and Its Effects on Poultry Production

Theme 34: Microbiome Research in Poultry: Implications and Applications

Theme 35: Innovative Approaches to Reduce Antibiotic Use in Poultry

Theme 36: Integrating Genetics and Nutrition for Enhanced Poultry Productivity

Theme 37: Genotype-Environment Interactions in Poultry Production

Theme 38: Advances in Precision Breeding and Nutritional Management

Theme 39: Sustainable Poultry Production: Integrating Genetic and Nutritional Innovations

Theme 40: Multidisciplinary Approaches to Addressing Poultry Health Challenges

Theme 41: The Future of Poultry Breeding: Trends and Predictions

Theme 42: Innovative Feed Technologies for the Next Generation of Poultry

Theme 43: Digital and Smart Farming Technologies in Poultry Management

Theme 44: Harnessing Big Data and AI in Poultry Research

Theme 45: Future Challenges and Opportunities in Poultry Science

Theme 46: Case Studies in Genetic Improvement of Poultry Breeds

Theme 47: Real-world Applications of Advanced Nutrition Strategies in Poultry

Theme 48: Successful Management Practices from Leading Poultry Farms

Theme 49: Overcoming Disease Outbreaks: Lessons from the Field

Theme 50: Market Innovations and Success Stories in the Poultry Industry

****Note:** Chapter title may be modified or new chapter may also be proposed by the author.

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CHAPTER SUBMISSION PROCEDURE:

Book Chapter may be submitted through e-mail: bioticabooks@gmail.com or online portal

- **Last date of chapter submission:** 30th Sept., 2024
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