

Emerging Trends in Veterinary Health Sciences

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Preface

Veterinary health sciences are undergoing rapid transformation in response to emerging diseases, changing animal production systems, climate variability, antimicrobial resistance, and advances in biomedical technology. *Emerging Trends in Veterinary Health Sciences* presents a contemporary perspective on the evolving landscape of veterinary medicine and its growing importance to animal health, public health, food security, and sustainable agriculture.

This book brings together key developments in areas such as veterinary diagnostics, molecular medicine, genomics, precision livestock farming, digital technologies, artificial intelligence, epidemiology, biotechnology, and advanced therapeutics. Particular emphasis is placed on the One Health approach, recognizing the interconnectedness of animal, human, and environmental health. Emerging challenges, including zoonotic diseases, antimicrobial resistance, vector-borne infections, and climate-associated health threats, are discussed in the context of modern veterinary practice.

The book is designed to provide students, researchers, veterinarians, academicians, and professionals with an accessible overview of recent innovations and future directions in veterinary health sciences. It also highlights the importance of interdisciplinary collaboration, evidence-based decision-making, and sustainable approaches to animal healthcare.

We hope this book will serve as a useful academic and professional resource, stimulate scientific curiosity, and encourage readers to explore innovative solutions for improving animal welfare, disease prevention, and global health.

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