

Poultry Diseases and Health

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Preface

Poultry farming is one of the fastest-growing sectors of global agriculture, contributing significantly to food security, nutrition, employment, and rural livelihoods. The increasing demand for poultry meat and eggs has driven the intensification of production systems, making disease prevention and flock health management more important than ever. Infectious diseases, nutritional disorders, environmental stress, and emerging pathogens continue to challenge the sustainability and profitability of poultry production worldwide. Effective disease surveillance, rapid diagnosis, sound biosecurity, and evidence-based health management are therefore essential for maintaining healthy and productive flocks.

Poultry Diseases and Health has been prepared to provide students, researchers, veterinarians, poultry professionals, and farmers with a comprehensive understanding of the principles of poultry health and disease management. The book presents the causes, transmission, clinical manifestations, diagnosis, prevention, and control of major bacterial, viral, fungal, parasitic, and metabolic diseases affecting poultry. It also discusses vaccination strategies, biosecurity practices, nutrition, welfare, antimicrobial stewardship, and advances in molecular diagnostics and precision poultry farming that are transforming modern poultry health management.

Special emphasis has been placed on integrating scientific knowledge with practical field applications, enabling readers to recognize disease conditions, implement preventive measures, and make informed management decisions. The content reflects current developments while maintaining clarity and accessibility for learners at different levels.

It is our sincere hope that this book will serve as a valuable resource for improving poultry health, enhancing production efficiency, reducing economic losses, and promoting sustainable and responsible poultry farming. We trust that readers will find this volume informative, practical, and beneficial in both academic and professional settings.

R.P. Diwakar
Alok Kumar Yadav
Kunwar Dhananjay Singh

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