

POULTRY SCIENCE & MANAGEMENT

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Preface

Poultry production is one of the fastest-growing sectors of animal agriculture, making a significant contribution to global food security, nutrition, and rural livelihoods. The book, *Poultry Science & Management*, has been developed to provide a comprehensive understanding of the scientific principles and modern management practices that underpin efficient and sustainable poultry production.

Rapid advancements in genetics, nutrition, housing systems, disease control, precision farming, and biotechnology have transformed the poultry industry. These innovations have improved productivity, feed efficiency, animal welfare, and product quality while addressing challenges such as emerging diseases, antimicrobial resistance, environmental sustainability, and changing consumer preferences. Scientific management practices are therefore essential to ensure profitable and responsible poultry farming.

This volume brings together contributions from academicians, researchers, veterinarians, and poultry industry professionals to present current knowledge on poultry anatomy and physiology, breeding, nutrition, incubation, brooding, housing, health management, biosecurity, welfare, production systems, and post-harvest management. Special emphasis is placed on integrating scientific advances with practical field applications to enhance productivity, profitability, and sustainability.

The editors hope that this book will serve as a valuable resource for students, researchers, veterinarians, extension personnel, poultry farmers, and industry professionals. We sincerely acknowledge the contributions of all authors and reviewers whose expertise and dedication have made this publication possible. It is our hope that this volume will contribute to the continued advancement of poultry science and sustainable poultry production.

Dr. Sudhanya Nath
Dr. Mendu Mounika
Dr. Shailesh Kumar Gupta
Dr. Mir Rovida

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