

Poultry Production Biotechnology



This book on "Poultry Production Biotechnology" encompasses on the integral objective that holds great potential to genetically improve the efficiency of production, the quality of eggs and meat and the health and welfare of poultry. This book represents the complete integration of current knowledge of biotechnology and quantitative and molecular genetics as applied to poultry production.

Avian genomics could be considered as valuable tool for expanded research on the structural and functional relationship of genes, development control, differentiation and the genetic approach of disease resistance. With a wide range of genomic tools available now, Marker assisted selection will play a very crucial role in complementing the conventional selection procedures.

The poultry nutrition is remodelling itself into a more wholesome and omnipotent science to cater to the interested in achieving feed cost economization without compromising on productivity of product quality. The potential of the commercial layers are increasing day by day, increase in egg numbers and decrease in body weight over a period of time is posing challenges to the nutritionists in arriving at the precise nutrient requirements.

On health front, emerging and re-emerging diseases pose serious threat to poultry industry. Outbreaks of transboundary zoonotic disease pose serious threat to human health and economics of poultry industry mostly due to market shocks. These outbreaks demand concerted planning in diseases surveillance and control. Re-emerging diseases viz. Marek's, IBD and Mycoplasma etc., are controlled with various strategies by screening, efficient bio-security, vaccination and chemotherapy.

Entrepreneurship development in poultry production can contribute significantly to economic growth, social stability and equity. Thus this book will enlighten the researchers, academicians and stake holders and policy makers on the role and importance of biotechnology in the improvement of poultry production.

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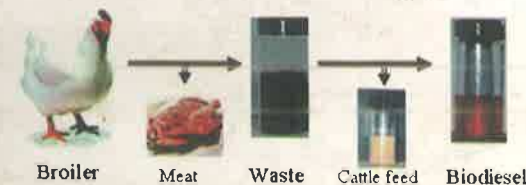
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D. THYAGARJAN
R. RAJENDRAN
A. ASHOK



SATISH SERIAL PUBLISHING HOUSE

403, Express Tower, Commercial Complex, Azadpur, Delhi - 110033 (India)

Phone : 011-27672852, Fax : 91-11-27672046

E-mail : info@satishserial.com, hkjain1975@yahoo.com

Website : www.satishserial.com

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Editors

**D. THYAGARJAN
R. RAJENDRAN
A. ASHOK**



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403, Express Tower, Commercial Complex, Azadpur, Delhi-110033 (India)

Phone : 011-27672852, Fax : 91-11-27672046

E-mail : info@satishserial.com, hkjain1975@yahoo.com

Website : www.satishserial.com

Preface / viii

of production animals and birds, validating the improvement by verifying the pedigree, verifying the origin of meat, protecting the brand of niche market meats, indentifying and enabling selection of chickens for meat quality and finally for detecting fraud in the trade.

This book will serve as an eye opener to the researchers, academicians and policy makers on the role and importance of biotechnology in the improvement of poultry production.

Editors

Contents

Message v
Preface vii

1. **Exploitation of Heat Stress Proteins** 1
R.P. Moudgal and M. Sirazuddin
2. **Exploitation of Toll Like Receptors for Genetic Disease Resistance in Poultry** 15
M.R. Reddy, T.R. Kannaki and M. Shanmugam
3. **Application of Biosensors in Poultry Industry** 21
T.R. Kannaki, M. Shanmugam and M.R. Reddy
4. **Biopharmaceutical Production in Poultry** 29
U. Rajkumar, A.K. Panda and S.V. Rama Rao
5. **Functional Genomics in Poultry** 39
T.K. Bhattacharya and R.N. Chatterjee
6. **Marker Assisted Selection in Poultry** 45
R.N. Chatterjee and T.K. Bhattacharya
7. **Feeding of Genetically Modified Crops in Poultry** 51
A.V. Elangovan and Praveen Tyagi
8. **Biotechnological Approach in Toxin Analysis in Poultry Feed, Egg and Meat** 59
G. Sarathchandra
9. **Cost Benefit Issues in Setting the Research Agenda in Poultry Biotechnology** 67
G. Dhinakar Raj and K. Kumanan

10. Biotechnological Tools for Post Harvest Technology in Poultry	73
Robinson J.J. Abraham	
11. Chromium Propionate Reduces Stress and Improves the Performance and Immune Status of Poultry	87
Rajalekshmi, M., Sripathy R., and Haridasan Chirakkal	
12. Application of Nanotechnology in Poultry Industry	89
D. Chaudhuri, S.K. Bhanja and Manu Dhingra	
13. Immunomodulation in Chicken	99
Deepak Sharma and Girraj Goyal	
14. Avian Transgenesis - Potential for Modifying Poultry Production Traits	107
B.P. Singh and Deepak Sharma	
15. Developing Immunocompetent Poultry Stock by Genetic Manipulation	117
K. Kumanan	
16. Production of Health Promoting Herbal Enriched Designer Eggs and Meat	123
D. Narahari	
17. QTL Detection in Poultry- Candidate Gene Approach ...	133
Suryakant Mishra, B.P. Singh and M.C. Kataria	
18. Role of Molecular Genetics in Poultry Production	147
R.P. Sharma and R.N. Chatterjee	
19. Manipulations of Feed Efficiency Genes	153
M.C. Kataria, Deepak Sharma, S.K. Mishra, Anil Mishra and Ram Gopal	
20. Current Status and Prospects of Poultry Production Biotechnology in India	163
P.Thangaraju	

21. Avian Genomics- Implications for Enhanced Poultry Production	175
R. Prabakaran	
22. Nutritional Manipulation through Biotechnological Means in Poultry	189
V. Balakrishnan and C. Valli	
23. Genetic Identification- Traceability in Poultry Meat Production	195
V.Thiagarajan	
24. Food Safety and Biotechnology	201
G.Thulasi	
25. Priorities in Avian Research- Poultry Production Biotechnology	219
V.Purushothaman	
26. Biotechnological Applications to Mitigate Environmental Pollutants in Poultry Industry	223
D.Thyagarajan	
27. Transfer of Technology for Rural Upliftment through Poultry Biotechnology	237
G.M. Lingaraju	
28. Patents and Biotechnology	249
Soumen Das	
29. Dietary Manipulation for Production of Designer Eggs ..	259
G. Raj Manohar and F.R. Sheriff	
30. Conservation of Endangered Poultry Breed by Use of Molecular Markers	269
R.K. Vijh, S. Upsana and M.S. Tania	