



# Textbook of Animal Biotechnology

*B Singh, S K Gautam, M S Chauhan*

Download now

[Click here](#) if your download doesn't start automatically

# Textbook of Animal Biotechnology

*B Singh, S K Gautam, M S Chauhan*

**Textbook of Animal Biotechnology** B Singh, S K Gautam, M S Chauhan

**Animal biotechnology** is an integral component of agriculture. Applicable in science and engineering, it is used for modifying living organisms. Textbook of Animal Biotechnology discusses topics including economically important livestock breeds, paradigm shifts in livestock production, biotechnology in animal nutrition and in livestock-assisted reproduction. Genomics and genetic engineering tools in livestock production and management are also discussed at length.

Divided into 41 chapters, the book is supported with over 50 figures and more than 30 tables. A must have for undergraduates and postgraduates of various agriculture and animal husbandry academia, teachers, professionals, it will also prove helpful for researchers dealing with basic as well as applied animal sciences including biotechnology, nutrition, physiology, and reproduction.

## **Key Features:**

- Provides cutting-edge technologies in livestock and fish production
- Gives various aspects of biotechniques aimed to improve fish nutrition, stem cell technology, and transgenesis
- Explains food and dairy biotechnology

## **Contents:**

### *Preface*

1. Animal Cell and Tissue Culture Laboratory
2. Basics of Cell Culture Technology
3. Applications of Cell Culture Technology
4. Synthetic Biology
5. Recombinant DNA Technology
6. Model Organisms in Biotechnology and Biomedical Science
7. Developments in Molecular Markers in Livestock
8. Exploring Various Bioresources for Industrial Application
9. Advent of Nanoscience and Nanotechnology: An Overview
10. Aquatic Bioresources: Prospects for Health and Livelihood
11. Biotechnology in Fish Nutrition, Reproduction, and Diversity Conservation
12. Marine Biotechnology
13. Stem Cells Biology in Fish Production
14. Transgenesis in Aquaculture
15. What are Ungulates?
16. Microbes in Animal Health and Industrial Development
17. Rumen Microbiome: An Overview of Important Microbes
18. Molecular Biology: Revisiting The Rumen Microbiome
19. Microbial Metagenomics: Exploring and Utilizing Gut Microbiome
20. Nutrigenomics, Metabolomics, and Metabonomics in Animal Production
21. Value Addition of Feedstuff: Role of Feed Biotechnology
22. Crop Biotechnology in Sustainable Food and Feed Production
23. Alternative Feeds and their Utilization for Sustainable Production

24. Biotechnological Utilization of Female Reproductive Potential
25. Cryopreservation
26. Gender Selection in Livestock: Prospects for Desirable and Healthier Herd
27. Animal Transgenesis
28. Stem Cells in Livestock
29. Microfluidics in Veterinary and Animal Sciences
30. Somatic Cell Nuclear Transfer
31. Frontiers in Dairy Biotechnology
32. Nanotechnology in Food Sector
33. Cellular Reprogramming and Induced Pluripotency: Veterinary and Animal Science Perspectives
34. Livestock in Post-Genomic Era of Biology and Medicine
35. Nanotechnology in Veterinary Health and Animal Production
36. Global Climatic Change: Need to Utilize Biotechnology to Manage Native Livestock Diversity for Sustainable Production
37. Animal Biotechnology: Scope, Global Perspective, and New Horizons
38. Biotechnology in Veterinary Health
39. Economically Important Livestock: Scope for Biotechnological Interventions
40. Functional Genomics for Sustainable Livestock Production
41. Models used in Genomics and their relevance

 [Download Textbook of Animal Biotechnology ...pdf](#)

 [Read Online Textbook of Animal Biotechnology ...pdf](#)

## **Download and Read Free Online Textbook of Animal Biotechnology B Singh, S K Gautam, M S Chauhan**

---

### **From reader reviews:**

#### **Gerald Conway:**

This Textbook of Animal Biotechnology book is absolutely not ordinary book, you have it then the world is in your hands. The benefit you will get by reading this book is information inside this book incredible fresh, you will get details which is getting deeper you read a lot of information you will get. That Textbook of Animal Biotechnology without we know teach the one who reading it become critical in considering and analyzing. Don't possibly be worry Textbook of Animal Biotechnology can bring once you are and not make your case space or bookshelves' turn into full because you can have it within your lovely laptop even cellphone. This Textbook of Animal Biotechnology having good arrangement in word and layout, so you will not sense uninterested in reading.

#### **Peggy Elmore:**

Reading a book can be one of a lot of task that everyone in the world adores. Do you like reading book and so. There are a lot of reasons why people enjoy it. First reading a reserve will give you a lot of new facts. When you read a e-book you will get new information since book is one of various ways to share the information or perhaps their idea. Second, examining a book will make an individual more imaginative. When you examining a book especially fiction book the author will bring that you imagine the story how the characters do it anything. Third, you may share your knowledge to some others. When you read this Textbook of Animal Biotechnology, you may tells your family, friends and also soon about yours reserve. Your knowledge can inspire average, make them reading a publication.

#### **Nancy Smith:**

Within this era which is the greater individual or who has ability to do something more are more treasured than other. Do you want to become among it? It is just simple strategy to have that. What you must do is just spending your time very little but quite enough to have a look at some books. One of many books in the top collection in your reading list is definitely Textbook of Animal Biotechnology. This book that is qualified as The Hungry Inclines can get you closer in becoming precious person. By looking right up and review this e-book you can get many advantages.

#### **Kevin Hardy:**

Reserve is one of source of information. We can add our understanding from it. Not only for students but additionally native or citizen require book to know the change information of year to be able to year. As we know those ebooks have many advantages. Beside many of us add our knowledge, can also bring us to around the world. From the book Textbook of Animal Biotechnology we can consider more advantage. Don't one to be creative people? To become creative person must choose to read a book. Simply choose the best book that appropriate with your aim. Don't end up being doubt to change your life at this time book Textbook of Animal Biotechnology. You can more inviting than now.

**Download and Read Online Textbook of Animal Biotechnology B  
Singh, S K Gautam, M S Chauhan #4IP12RNYQ9A**

## **Read Textbook of Animal Biotechnology by B Singh, S K Gautam, M S Chauhan for online ebook**

Textbook of Animal Biotechnology by B Singh, S K Gautam, M S Chauhan Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Textbook of Animal Biotechnology by B Singh, S K Gautam, M S Chauhan books to read online.

### **Online Textbook of Animal Biotechnology by B Singh, S K Gautam, M S Chauhan ebook PDF download**

**Textbook of Animal Biotechnology by B Singh, S K Gautam, M S Chauhan Doc**

**Textbook of Animal Biotechnology by B Singh, S K Gautam, M S Chauhan Mobipocket**

**Textbook of Animal Biotechnology by B Singh, S K Gautam, M S Chauhan EPub**