



## The GMO Handbook: Genetically Modified Animals, Microbes, and Plants in Biotechnology

*From Humana Press*

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### **The GMO Handbook: Genetically Modified Animals, Microbes, and Plants in Biotechnology** From Humana Press

A comprehensive and accessible survey of the best current accomplishments of GMO research in all their complexity and ramifications. The authors introduce the fundamentals of biotechnology as a scientific discipline, show how GMO research is conducted today, discuss the problems that have arisen from genetic technology and the tools needed to resolve them, and describes how GMO-derived technology may impact our lives in the future. On the technical side, the authors examine a wide range of current technologies employed for constructing GMOs, and describe approaches to novel research, appropriate protocols, and the process of constructing and screening a GMO. The discussion of plant and animal cells covers new strategies employed and the large-scale expression and purification of recombinant products in cultured cells. Social political, and legal issues are also discussed.

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### **Editorial Review**

#### Review

"...succeeds in providing scientists and advanced science and engineering students with a starting point for understanding biotechnology...should be on the shelves of most public and private research libraries around the world." -American Entomologist

#### From the Back Cover

Today genetically modified organisms (GMOs) and their products are central to the agricultural, food, and pharmaceutical industries and heated debate over their risks and benefits exists. In *The GMO Handbook: Genetically Modified Animals, Microbes, and Plants in Biotechnology*, leading scientists and administrators who have made significant contributions to the biotechnology revolution survey the best current accomplishments of GMO research in all their complexity and ramifications. Their encompassing review introduces the fundamentals of biotechnology as a scientific discipline, shows how GMO research is conducted today, discusses the problems that have arisen from genetic technology and the tools needed to resolve them, and describes how GMO-derived technology may impact our lives in the future. On the technical side, the authors examine a wide range of current technologies employed from cell biology, molecular biology, and biochemistry for constructing GMOs, and describe approaches to novel research, appropriate protocols, and the process of constructing and screening a GMO. The discussion of plant and animal cells covers new strategies employed and the large-scale expression and purification of recombinant products in cultured cells. Social, political, and legal issues are also included through discussions of the importance of public acceptance of GMOs and the regulatory environment both in the US and other countries.

Accessible and informative, *The GMO Handbook: Genetically Modified Animals, Microbes, and Plants in Biotechnology* offers biotechnologists a comprehensive survey of the GMO field, describing its history, current and emerging technologies, hands-on methods for transferring genes, and a reference guide to the regulatory, ethical, and biosafety compliance needs for GMO-derived consumer products.

### **Users Review**

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#### **Margaret Honig:**

This book entitled *The GMO Handbook: Genetically Modified Animals, Microbes, and Plants in Biotechnology* to be one of several books which best seller in this year, that is because when you read this reserve you can get a lot of benefit onto it. You will easily to buy that book in the book shop or you can order it via online. The publisher on this book sells the e-book too. It makes you easier to read this book, since you can read this book in your Mobile phone. So there is no reason to you to past this publication from your list.

#### **William Patterson:**

Reading can called mind hangout, why? Because if you find yourself reading a book especially book entitled *The GMO Handbook: Genetically Modified Animals, Microbes, and Plants in Biotechnology* your thoughts will drift away trough every dimension, wandering in most aspect that maybe mysterious for but surely can

become your mind friends. Imaging just about every word written in a book then become one web form conclusion and explanation this maybe you never get before. The The GMO Handbook: Genetically Modified Animals, Microbes, and Plants in Biotechnology giving you an additional experience more than blown away your thoughts but also giving you useful data for your better life on this era. So now let us show you the relaxing pattern is your body and mind will be pleased when you are finished examining it, like winning a game. Do you want to try this extraordinary investing spare time activity?

**Monica Philson:**

The GMO Handbook: Genetically Modified Animals, Microbes, and Plants in Biotechnology can be one of your nice books that are good idea. All of us recommend that straight away because this publication has good vocabulary that may increase your knowledge in vocabulary, easy to understand, bit entertaining however delivering the information. The article writer giving his/her effort to set every word into enjoyment arrangement in writing The GMO Handbook: Genetically Modified Animals, Microbes, and Plants in Biotechnology nevertheless doesn't forget the main stage, giving the reader the hottest as well as based confirm resource details that maybe you can be considered one of it. This great information may drawn you into brand new stage of crucial imagining.

**Kimberly Lunceford:**

Many people spending their time by playing outside together with friends, fun activity together with family or just watching TV all day long. You can have new activity to invest your whole day by reading through a book. Ugh, think reading a book really can hard because you have to bring the book everywhere? It ok you can have the e-book, taking everywhere you want in your Cell phone. Like The GMO Handbook: Genetically Modified Animals, Microbes, and Plants in Biotechnology which is finding the e-book version. So , why not try out this book? Let's observe.

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