



# Introduction to Food Biotechnology (Contemporary Food Science)

By Perry Johnson-Green

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## Introduction to Food Biotechnology (Contemporary Food Science) By Perry Johnson-Green

Universities throughout the US and the rest of the world offer Food Biotechnology courses. However, until now, professors lacked a single, comprehensive text to present to their students. Introduction to Food Biotechnology describes, explains, and discusses biotechnology within the context of human nutrition, food production, and food processing. Written for undergraduate students in Food Science and Nutrition who do not have a background in molecular biology, it provides clear explanations of the broad range of topics that comprise the field of food biotechnology.

Students will gain an understanding of the methods and rationales behind the genetic modification of plants and animals, as well as an appreciation of the associated risks to the environment and to public health. Introduction to Food Biotechnology examines cell culture, transgenic organisms, regulatory policy, safety issues, and consumer concerns. It covers microbial biotechnology in depth, emphasizing applications to the food industry and methods of large-scale cultivation of microbes and other cells. It also explores the potential of biotechnology to affect food security, risks, and other ethical problems.

Biotechnology can be used as a tool within many disciplines, including food science, nutrition, dietetics, and agriculture. Using numerous examples, Introduction to Food Biotechnology lays a solid foundation in all areas of food biotechnology and provides a comprehensive review of the biological and chemical concepts that are important in each discipline. The book develops an understanding of the potential contributions of food biotechnology to the food industry, and towards improved food safety and public health.

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## **Introduction to Food Biotechnology (Contemporary Food Science) By Perry Johnson-Green Bibliography**

- Sales Rank: #2496300 in Books
- Brand: Brand: CRC Press
- Published on: 2002-04-29
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .75" w x 6.14" l, 1.25 pounds
- Binding: Hardcover
- 312 pages

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### **Editorial Review**

#### Review

"This text is an excellent introduction to the world of food biotechnology. All food scientists, students, nutritionists, dietitians, and agricultural professionals will benefit from the information contained in this text." - Yukio Kakuda, Department of Food Science, University of Guelph, Ontario, Canada

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