



# Introduction to Biotechnology: An Agricultural Revolution

*By Ray V Herren*

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## **Introduction to Biotechnology: An Agricultural Revolution** By Ray V Herren

Introduction to Biotechnology: An Agricultural Revolution provides students with a basic understanding of the concepts that contribute to agriculture's biotechnology revolution. Each chapter of this comprehensive text includes topics such as cell functions, genetics and genetic engineering, the uses of biotechnology and biotech careers. Also included is a thorough examination of the controversy and concerns over the use of genetic engineering, genetically modified organisms, cloning and their potential dangers to humans and the environments. This information enables students to engage and utilize the text's science-based content in classroom discussions and research activities.

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Chapter 1: The Phenomena of Biotechnology. Chapter 2: The Historical Development of Biotechnology. Chapter 3: The Principles of Scientific Research. Chapter 4: Cells: The Foundation of Life. Chapter 5: The Principles of Gene Transfer. Chapter 6: Product Genetically Modified Organisms. Chapter 7: Animal Cloning. Chapter 8: Plant Cloning. Chapter 9: Biotechnology in Plant Science. Chapter 10: Biotechnology in Animal Reproduction. Chapter 11: Biotechnology in Medicine. Chapter 12: Biotechnology in the Food Industry. Chapter 13: Biotechnology in Ecology. Chapter 14: Consumer Concerns About Biotechnology. Chapter 15: Ethical Issues and Biotechnology. Chapter 16: Careers in Biotechnology.

#### **About the Author**

Ray V. Herren has been actively involved in agriculture for most of his life. He grew up on a diversified farm, where he played a major role in the production of livestock. He obtained a bachelor of science degree in agricultural education from Auburn University, a master's degree in agribusiness education from Alabama A & M, and a doctorate in vocational education (with an emphasis in agricultural education) from Virginia Polytechnic Institute and State University. Dr. Herren has taught at Virginia Tech, Oregon State University, and the University of Georgia in Athens, where he recently retired as head of the Department of Agriculture Leadership, Education, and Communication. In addition to being a national leader in the Future Farmers of America (FFA) Alumni organization, he has served on numerous committees from the local to international level, including a national task force to develop FFA programs for middle school and the National Committee for Career Development Events. His prolific scholarly activity includes 26 journal articles, 51 invited or refereed presentations, and 12 books and manuals. He has also earned several awards for his commitment to service, as well as UGA's prestigious College of Education Outstanding Teaching Award.

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