

## SECOND EDITION

# BIOTECHNOLOGY FUNDAMENTALS

A single source reference covering every aspect of biotechnology, **Biotechnology Fundamentals, Second Edition** breaks down the basic fundamentals of this discipline and highlights both conventional and modern approaches unique to the industry. In addition to recent advances and updates relevant to the first edition, the revised work also covers ethics in biotechnology and discusses career possibilities in this growing field.

The book begins with a basic introduction of biotechnology, moves on to more complex topics, and provides relevant examples along the way. Each chapter begins with a brief summary, is illustrated by simple line diagrams, pictures, and tables, and ends with a question session, an assignment, and field trip information. The author also discusses the connection between plant breeding, cheese making, *in vitro* fertilization, alcohol fermentation, and biotechnology.

Comprised of 15 chapters, this seminal work offers in-depth coverage of topics that include:

- Genes and Genomics
- Proteins and Proteomics
- Recombinant DNA Technology
- Microbial Biotechnology
- Agricultural Biotechnology
- Animal Biotechnology
- Environmental Biotechnology
- Medical Biotechnology
- Nanobiotechnology
- Product Development in Biotechnology
- Industrial Biotechnology
- Ethics in Biotechnology
- Careers in Biotechnology
- Laboratory Tutorials

**Biotechnology Fundamentals, Second Edition** provides a complete introduction of biotechnology to students taking biotechnology or life science courses and offers a detailed overview of the fundamentals to anyone in need of comprehensive information on the subject.



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