



Biotechnology Fundamentals, Second Edition

By Firdos Alam Khan



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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
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- Medical Biotechnology
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- Product Development in Biotechnology
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- Ethics in Biotechnology
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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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Editorial Review

Review

"Dr. Khan's **Biotechnology Fundamentals** serves as a great introduction to the field; presenting the various topics with clear definitions along with real-world examples and applications. In this second edition, Dr. Khan has included an introduction to several new exciting interdisciplinary areas such as biorobotics, biomimetics and epigenetics. These are all relatively new areas in biotechnology that show great promise and are exciting areas to explore."

?Alexandra Gorgevska, Palm Beach State College, Lake Worth, Florida, USA

About the Author

Firdos Alam Khan is a professor and chairperson of the School of Life Sciences, Manipal University, Dubai, United Arab Emirates (UAE). He earned his PhD from Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, Maharashtra, India, in 1997. He has more than 21 years of research and teaching experience in various domains of biotechnology. His area of expertise includes stem cell technology and neuroscience. He has written numerous articles in various national and international journals in the areas of neuroscience, neuropharmacology, and stem cell biology, and has been an editorial board member of the *EC Microbiology* and *MOJ Immunology* scientific journals.

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