



# Biotechnology Fundamentals

By Firdos Alam Khan

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## Biotechnology Fundamentals By Firdos Alam Khan

The focus of **Biotechnology Fundamentals** is to educate readers on both classical and modern aspects of biotechnology and to expose them to a range of topics, from basic information to complex technicalities. Other books cover subjects individually, but this text offers a rare topical combination of coverage, using numerous helpful illustrations to explore the information that students and researchers need to intelligently shape their careers.

Keeping pace with the rapid advancement of the field, topics covered include:

- How biotechnology products are produced
- Differences between scientific research conducted in universities and industry
- Which areas of biotechnology offer the best and most challenging career opportunities
- Key laboratory techniques and protocols employed in the field

The contents of this book are derived from discussions between teachers and undergraduate students and designed to address the concepts and methods thought useful by both sides. Starting with the fundamentals of biotechnology, coverage includes definitions, historical perspectives, timelines, and major discoveries, in addition to products, research and development, career prospects, ethical issues, and future trends.

The author explains that even before it had been classified as its own field, biotechnology was already being applied in plant breeding, in vitro fertilization, alcohol fermentation, and other areas. He then delves into new developments in areas including stem cell research, cloning, biofuels, transgenic plants, genetically modified food/crops, pharmacogenomics, and nanobiotechnology. Incorporating extensive pedagogy into the content, this book provides plenty of examples, end-of-chapter problems, case studies, and lab tutorials to help

reinforce understanding.

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#### 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

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#### About the Author

**Dr. Firdos Alam Khan** is chairperson of the department of biotechnology at Manipal University in Dubai. He received his doctoral degree in the field of neuroscience from Nagpur University, India and has more than 15 years of research and teaching experience in various domains of biotechnology. His area of specialty in biotechnology includes stem cell technology, pharmacology, and neuroscience. He did his first postdoctoral research from Tata Institute of Fundamental Research, Mumbai, India and his second postdoctoral training from Massachusetts Institute of Technology (MIT), Cambridge, USA. He also worked with Long Beach Memorial Medical Center, California, USA on a Parkinson's' research project. He later joined Reliance Life Sciences Mumbai, India and worked on adult and embryonic stem cell projects. He has written numerous articles in various national and international journals in the areas of neuroscience, neuropharmacology and stem cell biology. He has filed several patents in the field of stem cell technology in India, Europe, and USA, and he has been associated with international scientific organizations including the International Brain Research Organization in France and the Society for Neuroscience in the U.S. He has also been a presenter at more than 20 different international conferences in places including India, China, Thailand, and the United States.

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