

Offering in-depth coverage of both fundamentals and techniques, Introduction to Biotechnology is ideal for courses in biotechnology and microbiology. In the first part of the text, author Ashim K. Chakravarty discusses the basic structure and functioning of living organisms-including cells, organelles, chromosomes, replication, and biomolecules-and the key principles of biochemical reactions, genetics, and molecular biology. Giving students the practical tools that they will need in order to succeed in the real world, the remainder of the text covers biotechnological techniques including recombinant DNA technology, genomics, proteomics, bioinformatics, enzyme biotechnology, microbiology, plant and animal biotechnology, immunology, and environmental biotechnology. Key Features--Includes numerous illustrations, color plates, and text boxes that bring topics to life--Discusses the applications of biotechnology in agriculture, engineering, energy, and other related fields, helping students apply their knowledge to future careers--Features chapters on Bioethics and Biosafety (Ch. 15) and Intellectual Property Rights (Ch.16)--Provides rich pedagogical features in each chapter, including chapter summaries, review questions, and biographies of famous biotechnologists --Includes lab experiments for additional hands-on learning experience--Features an extensive glossary at the end of the book

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Biotechnology is the broad area of biology involving living systems and organisms to develop or make products, or any technological application that uses biological systems, living organisms, or derivatives thereof, to make or modify products or processes for specific use (UN Convention on Biological Diversity, Art. History of biotechnology - Biotechnology - Portal:Biotechnology - Nanobiotechnology. Buy Introduction to Biotechnology (2nd Edition) on tasteoftwoforks.com ? FREE SHIPPING on qualified orders. Biotech is helping to heal the world by harnessing nature's own toolbox and using our own genetic makeup. ? Improving food and crop oil content to help improve cardiovascular health. ? Work with chemical processes, genetic engineering, textile development cosmetic development etc.

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Introduction to biotechnology and its global impact on society. Covers applications, laboratory techniques, limitations and the international economic benefits. Offering in-depth coverage of both fundamentals and techniques, Introduction to Biotechnology is ideal for courses in biotechnology and microbiology. In the first.

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