

FUNDAMENTALS IN BIOTECHNOLOGY

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Summary

Biotechnology, when thoughtfully practiced (Peters 1988), has become an integral feature of the public's consciousness, hopes, and fears. Issues such as food shortages, genetically engineered foods, cloning, bioterrorism, and heredity impact and interact with the public's feelings and actions, which in turn influence the development and acceptance of the technological capabilities of biotechnology in various and complex manners.

Often, neither a single technology, biotechnology, in reality, is a collection of a set of technologies that involves the use of a variety of organisms that feed themselves nor truly range of disciplines in generating knowledge and in improving health care, food production, environmental quality, and consumer pleasure.

An understanding of cell identity and nature has, either previously or subsequently, its characteristics, its cultivation, and its functions, remains as fundamental to its handling in the laboratory, and later its applications in the environmental, health, industrial, and medical sectors that contribute to human progress and welfare. The different articles covered by this paper focus on these basic issues, and on the application of microorganisms, plants, and animals. Moreover, a concise study on genetic engineering and recombinant DNA technology is provided. The utilization of genetic information in microbial, plant, and animal cells is contributing to disease prevention and cure, gene therapy, production of biopharmaceuticals within organisms, etc. There is not even one scenario that involves ethics and heredity. With the predominance of the new Biotechnology Paradigm, issues in biotechnology, especially in the food and health

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