

FUNDAMENTALS IN BIOTECHNOLOGY

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Summary

Biotechnology, when thoughtfully applied (Peters 1998), has become an integral feature of the public's consciousness, health, and life. Issues such as food safety, genetically engineered foods, cloning, bioterrorism, and heredity impact and interact with the public's feelings and interests, which in turn influence the development and acceptance of the fundamental biotechnologies in various and complex manners.

Other authors describe biotechnology, biotechnology in society, as a collection of a set of techniques that involve the use of a variety of organisms that lead to products that have a wide range of applications in generating knowledge and in improving healthcare, food production, environmental quality, and consumer pleasure.

An understanding of cell identity and nature has either preoccupied or captivated its characterists, its cultivation, and its functions, namely, its fundamental role in heredity in the laboratory, and later its applications in the environment, health, industry, and societal 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 research, food 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 preeminence of the new Biotechnology Frontier, issues in biotechnology, research in the food and health

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