

FUNDAMENTALS IN BIOTECHNOLOGY

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Summary

Biotechnology, when thoughtfully applied (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 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 feed themselves and feed other organisms, in generating knowledge and in improving health care, 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 natural system that contribute to human progress and welfare. The different articles covered by this topic 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 also some new concepts that involve ethics and heredity. With the preeminence of the new Biotechnology Frontier, issues in biotechnology, research in the food and health

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Clifford Lane



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