Biotechnology: Innovative Technologies

About the Book

Biotechnology is referred to as the utilization of biological processes for industrial and other purposes. It involves the genetic manipulation of microorganisms for the production of antibiotics and hormones. Innovative biotechnology provides advanced products and techniques to combat devitalizing and rare diseases and develop greener, and more efficient industrial manufacturing processes. Biotechnology has applications across multiple industries such as food, pharmaceutical, chemical, bio-products, textiles, medicine, nutrition, and animal sciences. A few of its major branches are animal, medical, industrial, environmental, and plant biotechnology. This book attempts to understand the multiple branches that fall under the discipline of biotechnology and how such concepts have practical applications. The various studies that are constantly contributing towards innovative technologies and evolution of this field are examined in detail. As this field is emerging at a fast pace, this book will help the readers to better understand the concepts of biotechnology.

About the Editor

Sophia Martin received her M.Sc. in Biotechnology from University of Lincoln, United Kingdom. She is actively engaged in the researches focused on replacement of genes and artificial chromosomes, and genetic enhancement of plant lenience to drought and salinity. She has authored and edited more than 30 articles, journal papers and book chapters in the field of biotechnology. Martin has also served as a reviewer in several well-known scientific and medical journals.

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