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A Textbook of Biotechnology (M.E.), Revised Edition

By Dr. R.C. Dubey

S. Chand & Company Ltd, 2013. Softcover. Book Condition: New. 5th or later edition. CONTENTS: Unit I : INTRODUCTION : 1. Biotechnology : Scope and Importance : What is Biotechnology?; History of Biotechnology; Traditional Biotechnology; Modern Biotechnology - Emergence of Modern Biotechnology, Biotechnology as an Interdisciplinary Area, Global Impact and Current Excitement of Biotechnology (Health Care, Agriculture, Human Genome Project, Environment, Genomics and Proteomics, Bioinformatic); Global Impact of Biotechnology; Health Care; Agriculture; Environment; Biotechnology in India and Global Trends; Global Scenario; Potential of Modern Biotechnology; International Centre for Genetic Engineering and Biotechnology (ICGEB); Need for Future Development; Achievements of Biotechnology; Ban on Genetic Food, Prevention of Misuse of Biotechnology; Biodiversity and its Conservation (Genetic Diversity, Species Diversity, Ecosystem Diversity); Biodiversity in India; Conservation of Biodiversity Gene Bank and Plant Conservation Unit II : GENES AND GENETIC ENGINEERING : 2. Genes : Nature, Concept and Synthesis : Chemical Nature of DNA; Chemical Composition; Nucleotides, Nucleosides; Polynucleotides; Chargaff's Rule of Equivalence; Physical Nature of DNA; Watson and Cricks Model of DNA; Circular and Superhelical DNA; Organisation of DNA in Eukaryotes; Structure of RNA; Gene Concept; Units of a Gene; Cistron; Recon; Mutant; Split Genes (introns); RNA Splicing; Ribozyme; Evolution of Split Genes;...

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