1. Record Nr. UNINA9910828688703321 Autore Alcamo I. Edward **Titolo** DNA technology: the awesome skill // I. Edward Alcamo Pubbl/distr/stampa San Diego, : Academic Press, 2001 **ISBN** 1-281-07057-2 9786611070571 0-08-053048-6 Edizione [2nd ed.] Descrizione fisica 1 online resource (361 p.) Disciplina 660.6/5 Soggetti Genetic engineering DNA Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Front Cover; DNA Technology: The Awesome Skill; Copyright Page; Nota di contenuto Contents; Chapter 1. The Roots of DNA Research; Introduction; Inheritance Factors: Chromosomes and Factors: Genes and DNA: Relating DNA to Heredity; Summary; Chapter 2. The Double Helix; Introduction: The Structure of DNA: DNA Replication: Summary: Chapter 3. DNA In Action; Introduction; Foundation Studies; Protein Synthesis; Summary; Chapter 4. Foundations of DNA Technology; Introduction: The Tools of Genetic Engineering: Recombinant DNA Experiments; Summary; Chapter 5. Methods of DNA Technology; Introduction The Biochemistry of GeneGene Libraries; Summary; Chapter 6. Pharmaceutical Products of DNA Technology: Introduction: Human Protein Replacements: Human Therapies; Vaccines; Summary; Chapter 7. DNA Analysis and Diagnosis; Introduction; Methods of DNA Analysis; Diagnosing Infectious Disease; Identifying Genetic Disease; Environmental Monitoring; Summary; Chapter 8. Gene Therapy; Introduction; Vectors in Gene Therapy; Advances in Gene Therapy;

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Sommario/riassunto

DNA Technology, Second Edition, is a survey of biotechnology written to enlighten readers about the breakthroughs made possible by the science and technologies associated with current DNA research. Ed Alcamo gives the educated layperson a survey of DNA by presenting a brief history of genetics, a clear outline of techniques that are in use, and indications of breakthroughs in cloning and other DNA advances. Appropriate for a wide range of courses for non-biology majors, including a ODNA for Lawyers course or allied health and nursing courses. After reading this book, individuals