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Autore	Lazic, Vera B.
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STORE CLONED DNA SEQUENCES; EXPRESSING CLONED GENES; THE POLYMERASE CHAIN REACTION (PCR); SUMMARY; REVIEW; ADDITIONAL READING
Chapter 6 Human GenomicsLOOKING AHEAD; INTRODUCTION; MODEL ORGANISMS ARE FUNDAMENTAL TO GENOMICS; EARLY HUMAN GENOME MAPS; DETERMINING THE DNA SEQUENCE OF THE ENTIRE HUMAN GENOME; WHAT WE LEARNED FROM THE HUMAN GENOME SEQUENCE; NINETY-EIGHT PERCENT OF THE HUMAN GENOME IS NONCODING DNA; INDIVIDUAL GENOMES AND GENETIC VARIATION; HUMAN AND CHIMPANZEE DNA: WHAT MAKES US HUMAN?; WHAT WE STILL NEED TO LEARN ABOUT THE HUMAN GENOME; SUMMARY; REVIEW; ADDITIONAL READING; WEB SITE; Chapter 7 Bioinformatics; LOOKING AHEAD; INTRODUCTION; AN EXPLOSION OF DATA FUELED THE RISE OF BIOINFORMATICS
SEQUENCE SIMILARITIES SUGGEST PROTEIN FUNCTION AND EVOLUTIONARY RELATIONSHIPSBIOLOGICAL DATA ARE ORGANIZED IN COMPUTER DATABASES; USING BIOINFORMATICS DATABASES; APPLIED BIOINFORMATICS; SUMMARY; REVIEW; ADDITIONAL READING; WEB SITES; Chapter 8 DNA Forensics; LOOKING AHEAD; INTRODUCTION; FORENSIC DNA TESTING: A POWERFUL AND VERSATILE TOOL; USING DNA ANALYSIS TO RECONSTRUCT THE ORIGINS OF THE HUMAN RACE; SUMMARY; REVIEW; ADDITIONAL READING; Chapter 9 Exploring Cell Fate; LOOKING AHEAD; INTRODUCTION; FATE 1: CELL DIVISION AND REPRODUCTION
CANCER CELLS GO TO THE ""DARK SIDE"" AND EVADE CELL CYCLE CONTROLCELL-CYCLE MACHINE: CYCLINS AND CYCLIN-DEPENDENT KINASES PROMOTE MITOSIS; GENES CONTROLLING CANCER: TUMOR SUPPRESSOR GENES AND ONCOGENES; CLINICAL TRIALS TO TEST HUMAN CANCER TREATMENTS; FATE 2: DEVELOPMENT OF SPECIALIZED CELLS; FATE 3: APOPTOSIS IS PROGRAMMED CELL DEATH; SUMMARY; REVIEW; ADDITIONAL READING; WEB SITES; Chapter 10 Human Genetic Diseases; LOOKING AHEAD; INTRODUCTION; GENETIC DISEASES ARE CAUSED BY MUTANT GENES; 10,000 HUMAN GENES POTENTIALLY CAUSE GENETIC DISEASES; INCONSISTENT GENETIC TESTING LAWS GENETIC DISEASES ARE FREQUENTLY CAUSED BY MORE THAN ONE GENE

Sommario/riassunto

Appropriate for a wide range of disciplines, from biology to non-biology, law and nursing majors, DNA and Biotechnology uses a straightforward and comprehensive writing style that 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 highlights of breakthroughs in hot topic scientific discoveries. Engaging and straightforward scientific writing style Comprehensive forensics chapter Parallel Pedagogic material designed to help both readers and teachers. Highlights in the latest scientifi