



## Genetics and Molecular Biology: With Fundamentals of Biostatistics

By David R. Hyde

Tata McGraw-Hill Education Pvt. Ltd., 2010. Softcover. Book Condition: New. First edition. Hyde's Genetics and Molecular Biology teaches the principles of genetics with an innovative approach that emphasizes the basic concepts involved in solving problems as well as teaching students how to manipulate genetic data. This text maintains the rigor that faculty require in a genetics book, while incorporating a student-friendly presentation style that helps the reader grasp the subject in easiest manner. TABLE OF CONTENTS: Introduction to Genetics Part 1: Patterns and Mechanisms of Classical Inheritance 2. Mendelian Genetics 3. Mitosis and Meiosis 4. Sex Linkage and Pedigree Analysis 5. Modifications to Mendelian Patterns of Inheritance 6. Linkage and Mapping in Eukaryotes Part 2: Molecular Basis of Inheritance and Gene Expression 7. DNA Structures and Chromosome Organization 8. Changes in Chromosome Structure and Number 9. DNA Replication 10. Gene Expression: Transcription 11. Gene Expression: Translation Part 3: DNA Technologies 12. Recombinant DNA Technology 13. Application of Recombinant DNA Technology Part 4: Control of Gene Expression 14. Genetics of Bacteria and Bacteriophages 15. Gene Expression: Control in Bacteria and Phages 16. Gene Expression: Control in Eukaryotes 17. DNA Mutation, Repair, and Transposition 18. Extranuclear Inheritance 19. Mutational Analysis Part 5:...



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