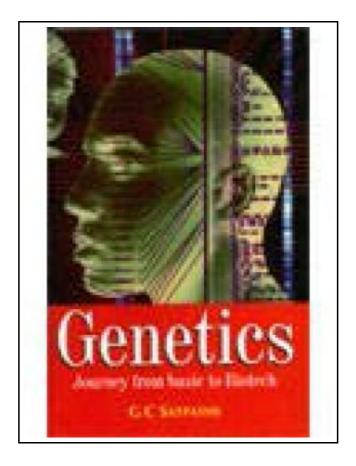
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GENETICS: JOURNEY FROM BASIC TO BIOTECHNOLOGY



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Kalpaz Publications/Gyan Books Pvt Ltd, 2004. Hardcover. Book Condition: New. Knowledge about hereditary phenomena has been important for a long time. Civilization itself became possible when nomadic Tribes learned to domesticate Plants and animals. Long before Biology existed as a Scientific discipline, people selected Grains with Higher yields and greater vigor and Animals with better fur or meat. They puzzled about the inheritance of desirable and undesirable traits in human population. Despite this, the actual basis of inheritance was obscure until Discovery of Mendel's laws. With the Wealth of Genetic Knowledge we now make generalisation about DMA, genes, phenotypes and genotypes as though these concepts were self evident. A working knowledge of principles of Genetics is essential for making informed decisions on many scientific, Political and personal levels. Contents: Message Foreword Preface INTRODUCTION 1. The Beginning of Genetics 2. The Scope of Genetics 3. The Flow of Genetic Information 4. The Genetic Material 5. The Genetic Structure of Populations 6. The Unity of Genetics 7. Genetic Analysis 8. Genetics and Human Affairs 9. The Significance of Genetics 10. Breeding 11. Hybrid Breeding in Plants 12. Other Kinds of Plant Breeding 13. Animal Breeding 14. Biological Control 15. Medicine and Society I. MENDELIAN PRINCIPLES: 1. Fundamentals of Inheritance 2. Innovations of Mendel 3. Mendalism 4. Plants in Heredity 5. Mendel`s Discoveries 6. Selection of Genetic Material 7. Crosses Made by Mendel 8. Second Filial Generation 9. Third Filial Generation 10. Law of Segregation 11. Genetype and Phenotype 12. Law of Independent Assortment 13. Independent Assortment 14. Back Cross 15. Test Cross 16. Trihybrids 17. Polyhybrids 18. Variations in Mendalian Ratios 19. Confirmations and Exceptions to Mendel's Scheme 20. Some Useful Genetic Terms 21. Exceptions to the Mendelian Ratios 22. Coupling of Genes II. CELL DIVISION: 1. The Cell Cycle...



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