

## SBI4U - Unit 2: Molecular Genetics & Biotechnology

### **EXPECTATIONS**

**D2.1** Use appropriate terminology related to molecular genetics

**D2.2** Analyze a strand of DNA to determine the genetic code and base pairing of DNA

**D3.1** Explain the model of DNA replication and describe the different repair mechanisms that can correct mistakes in DNA sequencing

**D3.2** Compare the structures and functions of RNA and DNA, and explain their roles in the process of protein synthesis

**D3.3** Explain the steps involved in the process of protein synthesis and how genetic expression is controlled in prokaryotes and eukaryotes by regulatory proteins

**D3.4** Explain how mutagens (radiation, chemicals, etc.) can cause mutations by changing the genetic material in the cells

**D3.5** Describe some examples of genetic modification and how it is applied in industry and agriculture

**D3.6** Describe the functions of some of the cell components used in biotechnology

**D3.7** Describe on the basis of research some of the historical scientific contributions that have advanced our understanding of molecular genetics

### **IMPORTANT RESEARCHERS & THEIR DISCOVERIES**

- Gregor Mendel discovered the fundamental laws of inheritance (Mendel's law)
- Frederick Griffith discovered the "transformation principle"; lead to discovery that DNA acts as a carrier for genetic information
- Joachim Hammerling discovered that the nucleus is the storehouse of hereditary material
- Oswald Avery, Maclyn McCarthy, and Colin MacLeod discovered that DNA is the material of which chromosomes and genes are made of
- Alfred D. Hershey and Martha Chase discovered that only the DNA of a virus needs to enter a bacterium to infect it
- Rosalind Franklin (and Maurice Wilkins) discovered the structure of DNA (photo 51)
- June Lindsey discovered the double-helix structure of DNA
- James Watson and Francis Crick discovered the double-stranded, twisted-ladder structure of DNA
- Friedrich Miescher identified DNA as a distinct molecule in 1869

### **DNA SYNTHESIS AND REPLICATION SUMMARY**

- DNA replicates semi-conservatively; one coding strand and one newly synthesized strand
  - discovered by Meselson and Stahl (1958)
- step-by-step process

# Genetics And Biotechnology Study Guide

**Mr. Rameshwar Singh**



## **Genetics And Biotechnology Study Guide:**

**Life: The Science of Biology Study Guide** William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR [Student Study Guide for Biology \[by\] Campbell/Reece/Mitchell](#) Martha R. Taylor, 1999

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beginning with an introduction to genetics and biotechnology highlighting their historical development and emerging trends The foundational principles of genetics including Mendelian inheritance molecular genetics and gene regulation are thoroughly discussed Core biotechnological techniques such as PCR DNA sequencing and cloning methods are also explored A dedicated section examines genomics and proteomics emphasising their roles in advancing our understanding of gene function and interaction The book also addresses applications in agriculture including genetically modified crops and sustainable farming practices Medical biotechnology is extensively covered focusing on gene therapy vaccine development and genetic diagnostics Industrial and environmental biotechnology sections delve into microbial applications biofuels and bioremediation efforts Throughout the book ethical considerations and societal impacts are discussed encouraging responsible research and application By integrating theoretical knowledge with practical insights this book aims to equip readers with the expertise required to navigate and contribute to the dynamic fields of genetics and biotechnology

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