

## 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 Review And Study Guide

**D Keegan**



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