

Molecular Biology and Human Genetics : An Overview

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ABSTRACT

The field of science known as molecular genetics, which also includes the practice of genetic engineering, examines the structure and operation of genes at the molecular level. The various methods used in molecular genetics include DNA cloning, polymerase chain reaction, amplification, and mRNA isolation. Human genetics is regarded as both a fundamental and applied science. It belongs to the field of study known as genetics, which studies the laws governing the transfer, storage, and realisation of information necessary for the growth and operation of living things. The high-level "construct" in genetics is the gene as a unit of information storage, transfer, and realisation. Mendel's laws were rediscovered in 1900, and since then, genetic mechanisms have been pieced together at the molecular level through the analysis of transcription and translation, genetic code decipherment, and the role of genes-determined proteins.

Keywords: Genetics, Polymerase chain reaction


10.11.23
for Book