

Glossary of Molecular Biology

Polymerase chain reaction (PCR): is a technique that produces thousands to millions of copies of a particular DNA sequence in vitro

Agarose gel electrophoresis: is a method used to separate DNA or RNA molecules by size.

Transcription: is a process in which one DNA strand is used as template to synthesize a complementary RNA

Promoter: is a region of DNA where RNA polymerase and other proteins bind directly to facilitate the transcription of a particular gene.

Operator: region between the promoter and the first gene act as an “on-off switch”, it is DNA binding site of repressor protein

Operon: refers to a group of closely linked genes, arranged under a common promoter and regulated by a common operator whose mRNA is synthesized in one piece, which together code for various enzymes of a particular biochemical pathway.

Transcription factor: is a protein that binds to specific DNA sequences and controls the transcription of genetic information from DNA to mRNA.

Translation: is the synthesis of protein molecule using mRNA as a template

Ribosomes: are large molecules consisting of large and small subunits which attach to the mRNA to translate its message into a polypeptide by aid of tRNA

The Genetic Code: A sequence of three nucleic acid bases (a triplet) acts as a code word (codon) for one amino acid

Proteins are polymers composed of monomers called amino acids

Primary structure of protein: is the linear sequence of amino acids in the polypeptide chain that held together by peptide bonds

Secondary structure of protein: twisting and folding of polypeptide chain by hydrogen bond

Tertiary structure of protein: overall folding of polypeptide chain that are driven by different bonds and stabilized by interaction of R-groups

Quaternary structure of protein: composed of two or more polypeptides chains (identical or not) coming together to form functional protein

Glossary Of Molecular Biology

LP Steffe



Glossary Of Molecular Biology:

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Glossary Of Molecular Biology Introduction

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