
Molecular Biology of the Cell 6th Edition Alberts

Test Bank

MOLECULAR BIOLOGY OF THE CELL, SIXTH EDITION

CHAPTER 1: CELLS AND GENOMES

1. Scientists discover more than ten thousand new species of living organisms every year. What is shared between all of these organisms?
 - A. They are made of cells, whose nuclei enclose their DNA.
 - B. They obtain their energy from sunlight.
 - C. They produce and use adenosine triphosphate (ATP).
 - D. Their genome contains at least 1000 genes.
 - E. All of the above.
2. All cells ...
 - A. have membrane transport proteins.
 - B. synthesize proteins on the ribosome.
 - C. replicate their genome by DNA polymerization.
 - D. transcribe their genetic information by RNA polymerization.
 - E. All of the above.
3. Imagine a segment of DNA (within a gene) encoding a certain amount of information in its nucleotide sequence. When this segment is fully transcribed into mRNA and then translated into protein, in general, ...
 - A. the protein sequence would carry more information compared to the DNA and mRNA sequences, because its alphabet has 20 letters.
 - B. the protein sequence would carry less information compared to the DNA and mRNA sequences, because several codons can correspond to one amino acid.
 - C. the amount of information in the mRNA sequence is lower, because the mRNA has been transcribed using only one of the DNA strands as the template.
 - D. the amount of information in the mRNA sequence is higher, because several mRNA molecules can be transcribed from one DNA molecule.
4. Which of the following processes that happens inside a cell DOES NOT normally require consumption of free energy by the cell?
 - A. Replication of the genetic material

Molecular Biology Test Questions

Ian Pickup



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