

Unit 4 Review – Molecular Genetics

1. Know all key terms from this unit.
2. Know all diagrams from this unit.

A) The Structure of DNA:

3. List and discuss properties of a DNA nucleotide as well as the 4 DNA bases.
4. What does a DNA double helix look like? How are the bases held together? How are the nucleotides held together? What is the intrinsic directionality of the helix?

B) DNA Replication:

5. Explain the detailed steps of DNA replication.
6. What would happen if certain enzymes or molecules were missing from this process? What are the ramifications (consequences) for the cell?

C) Protein Synthesis – Transcription and Translation:

7. What is meant by the term "Central Dogma"?
8. How do DNA and RNA differ?
9. Be able to read the genetic code and determine amino acid sequences.
10. Explain the detailed steps of transcription. Include an explanation of post-transcriptional modifications (i.e., capping, tailing, splicing introns, recombining exons).
11. Discuss the structure of a ribosome. Include a diagram in your explanation.
12. What is the role of tRNA?
13. Explain the detailed steps of translation.

D) Gene Expression and Mutations:

14. Discuss gene regulation at its 4 levels.
15. Explain how the lac operon and trp operons work in prokaryotic cells.
16. Discuss the 3 major types of mutations (silent, missense, nonsense).
17. Discuss the occurrence of these mutations (substitution, deletion, insertion).
18. Discuss the result of these occurrences (frameshift, point, translocation, transposable elements, inversion).
19. Use a chart to compare 5 key genetic differences between eukaryotes and prokaryotes.
20. Explain how genes are organized into chromosomes. Include the following terms: histones, nucleosomes, super-coiling, VNTRs, telomeres, LINEs, SINEs.

E) Biotechnology and DNA:

21. What is recombinant DNA?
22. How do restriction endonucleases (aka restriction enzymes), methylases, and DNA ligase work?
23. Explain the steps to gene cloning through plasmids and transformation (vectors). Use your diagram to help you (see your handout).

Genetics Unit Review Sheet Answers

Tobias Bleicker



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