

Study Guide: Biochemistry exam 1

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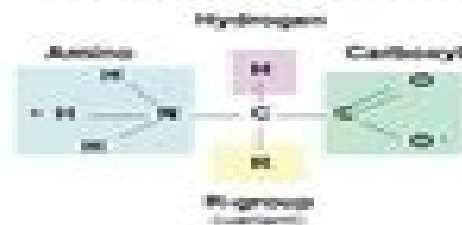
1. Define or describe the "Central Dogma" in relation to the storage & retrieval of genetic information, the creation of proteins and the expression of traits:

- ✧ "Central Dogma" explains the storage, retrieval, & expression of genetic information.
- ✧ Replication: duplication of DNA to make an identical copy.
- ✧ Transcription: reading of a gene & its transcription into RNA.
- ✧ Translation: translation of RNA sequence into the corresponding sequence of amino acids to form a protein.
- ✧ "Information processing": information flow from DNA to protein structure -
 - DNA undergoes replication → transcribed into RNA → RNA translated into a protein → proteins develop into traits.

2. Illustrate and/or describe the general structural, physical and/or chemical characteristics of amino acids.

- ✧ There are 20 standard amino acids.
- ✧ Each amino acid has an amino group, and a carboxyl group joined at the alpha carbon.
- ✧ The "R" group is the unique feature for each amino acid.

Amino Acid Structure



- ✧ There's an O⁻ on the carboxyl group b/c the H⁺ goes to amino-group, making NH₃⁺ at a certain pH.
- ✧ There are 4 main groups of amino acids:
 - **Neutral non-polar:** no charge, hydrophobic
 - **Neutral polar:** no charge, hydrophilic
 - **Acidic:** extra carboxyl in R-group, can be - charged
 - **Basic:** extra amino in R-group, can be + charged.
- ✧ **Charges occur in R groups!**
- ✧ **Amphoteric:** when an amino acid can act as an acid or base (depending on the pH).
- ✧ Amino acids are "zwitterionic" meaning they can carry both a + and - charge on the same molecule.
- ✧ The alpha carbon is "asymmetric" if all 4 attached groups are different.

3. Describe and/or illustrate the titration of an amino acid, including the pI's or pKa's of ionizable groups.

- ✧ Begin titration by adding a base, and watch the pH change.
- ✧ You can increase the pH by adding a base, thus giving COOH the time to give up its proton.
- ✧ pKa reflects the dissociation of an acid.
- ✧ pI is a point where 100% of the molecule has a 0 charge.

Essential Biochemistry Study Guide

Michael Rajnik



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