

# BIO101 TEST GUIDE (#1)

## LO1 - Life Science

- LO: Describe elements of research design and how they impact conclusions
  - sample size, randomization, double blind, strengths & weaknesses
  - caveation @ causation
- LO: Formulate testable hypothesis & design controlled exp
- LO: Distinguish science from unjustified claims

## LO2 - Macromolecules

- LO: name & explain 6 major themes of biology
- LO: classify polysaccharides based off their structure/function in plants/animals & describe how formed
  - 4 major macromolecules (biological polymers) in cell:
    - Carbohydrates (monosaccharide + monosaccharide  $\rightarrow$  polysaccharide +  $H_2O$ )
    - Lipids
    - Proteins
    - Nucleic Acids



- | 4 polysaccharides                 |
|-----------------------------------|
| 1. Starch: Storage in plants      |
| 2. Glycogen: Storage in animals   |
| 3. Cellulose: Structure in plants |
| 4. Chitin: Structure in animals   |

### Hydrolysis & Dehydration Reactions

- Hydrolysis: breaks polymers into monomers by adding  $H_2O$
- Dehydration reaction: links monomers together,  $H_2O$  released



- LO: define lipids & explain their functions & properties in polar/nonpolar

### Lipids = nonpolar & hydrophobic

4 important types of lipids: fats, phospholipids, cholesterol, and steroids

1. Fats (monomer = glycerol & fatty acids) (aka. a triglyceride = "3" & "glycerol")

unsaturated fats/triglycerides: hydrocarbon chain has 1+ double bond (can't pack tight  $\therefore$  liquid)

saturated fats/triglycerides: no double bonds (can pack easily  $\therefore$  solid)

2. Phospholipids (hydrophilic head (glycerol + phosphate mol) + 2 hydrophobic tails)

"amphiphilic" molecule



form phospholipid bilayer



hydrocarbon fatty acids

- LO: draw protein structure & depict the consequence of mutations on normal structure & function

Proteins' monomers are amino acids. Amino acid + amino acid = dipeptide

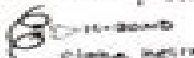
1. Primary structure in proteins = just the sequence of the amino acids in order



amino acid

peptide bonds b/w amino group of 1 amino acid & carboxyl of another

2. Secondary structure in proteins = H-bonds b/w amino group of 1 amino acid & carboxyl of another



alpha helix



beta pleated

3. Tertiary structure in proteins = overall 3-D shape of polypeptide due to R-group interactions b/w amino acids

4. Quaternary structure (NOT ALL HAVE)  $\rightarrow$  R-group interactions b/w multiple polypeptide chains



interactions b/w R-groups (close acids)



see mutated amino acid can affect/ruin the entire polypeptide structure &  $\therefore$  function

one incorrect/misplaced amino acid can make protein defective bc specific R-groups & orders cause each protein's unique folds & functions

- LO: identify how human body uses macromolecules from food

Eat for 2 reasons:

- Raw organic macromolecular materials for building our own macromolecules
- Energy for cellular work

# General Biology College Study Guide

**United States. Office of Education.  
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