

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
 - ↳ causation @ correlation
- 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:
 1. Carbohydrates (monosaccharide + monosaccharide → polysaccharide + H_2O)
 2. Lipids
 3. Proteins
 4. 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 ∴ liquid)

↳ saturated fats/triglycerides: no double bonds (can pack easily ∴ solid)

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

↳ "amphiphilic" molecule

form phospholipid bilayer



- 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

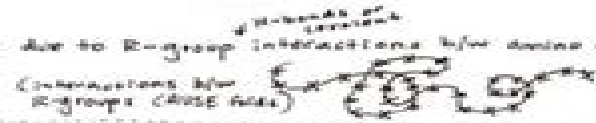


↳ 2. Secondary structure in proteins = H-bonds b/w amino group of 1 amino acid & carboxyl of another



↳ 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) → R-group interactions b/w multiple polypeptide chains



↳ see mutated amino acid can affect/ruin the entire polypeptide structure & ∴ 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:

1. Raw organic molecular materials for building our own macromolecules
2. Energy for cellular work

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