

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

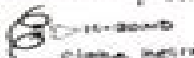
1. Primary structure in proteins = just the sequence of the amino acids in order



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 cause fold)



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

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A Loxley



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5.5 - Hypothesis Testing for Two-Sample Proportions

We are now going to develop the hypothesis test for the difference of two proportions for independent samples. The hypothesis test follows the same steps as ... Two-Sample t-Test | Introduction to Statistics The two-sample t-test is a method used to test whether the unknown population means of two groups are equal or not. Learn more by following along with our ...

1.3.5.3. Two-Sample t -Test for Equal Means

Purpose: Test if two population means are equal, The two-sample t-test (Snedecor and Cochran, 1989) is used to determine if two population means are equal.

2 Sample t-Test (1 tailed)

Suppose we have two samples of ceramic sherd thickness collected from an archaeological site, where the two samples are easily distinguishable by the use of. Two sample t-test: SAS instruction Note that the test is two-sided (sides=2), the significance level is 0.05, and the test is to compare the difference between two means ($\mu_1 - \mu_2$) against 0

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