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Open

Structure	Function	Location	Notes
Cell membrane	Controls what enters and leaves the cell	Surface of the cell	Phospholipid bilayer
Cell wall	Provides structural support and protection	Outer layer of plant cells and bacteria	Cellulose in plants, peptidoglycan in bacteria
Chloroplast	Site of photosynthesis	Plant cells	Contains chlorophyll
Mitochondrion	Site of cellular respiration	All eukaryotic cells	Contains DNA and ribosomes
Nucleus	Contains genetic material (DNA)	All eukaryotic cells	Surrounded by nuclear envelope
Rough ER	Site of protein synthesis	Inside the cell	Studded with ribosomes
Smooth ER	Lipid synthesis and detoxification	Inside the cell	Lacks ribosomes
Golgi apparatus	Modifies, sorts, and packages proteins	Inside the cell	Composed of flattened sacs
Lysosome	Digests waste materials	Inside the cell	Contains digestive enzymes
Vacuole	Stores water, ions, and nutrients	Plant cells and some animal cells	Large central vacuole in plants
Centrioles	Organize microtubules	Animal cells	Cylindrical structures
Cilia/Flagella	Cell movement	Surface of some cells	Microtubule-based

Immunology System Topics To Study - ANSWER KEY

- ABCDE Rule and how to identify melanoma

LOOK FOR (DANGER SIGNALS) - UNUSUAL LESIONS OF THE SKIN
 Consult your dermatologist immediately if you detect these or pigment spots which:

A Asymmetry - one half unlike the other half

B Border irregular - scalloped or poorly circumscribed border

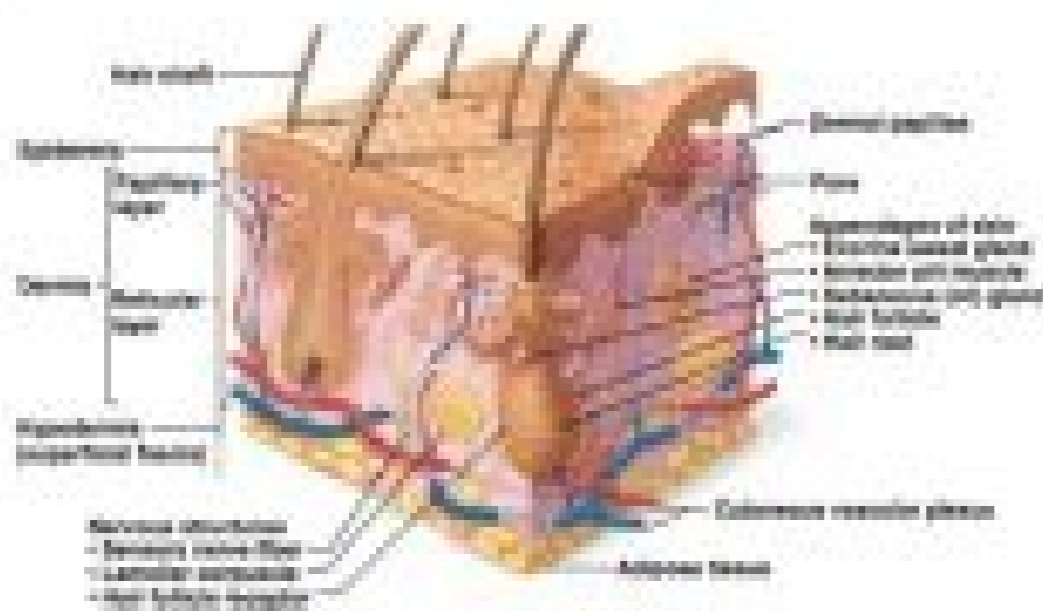
C Color varied - more than one color, shades of tan and brown, black, sometimes white, red or blue

D Diameter larger than - 6mm, as a rule diameter of pencil-eraser

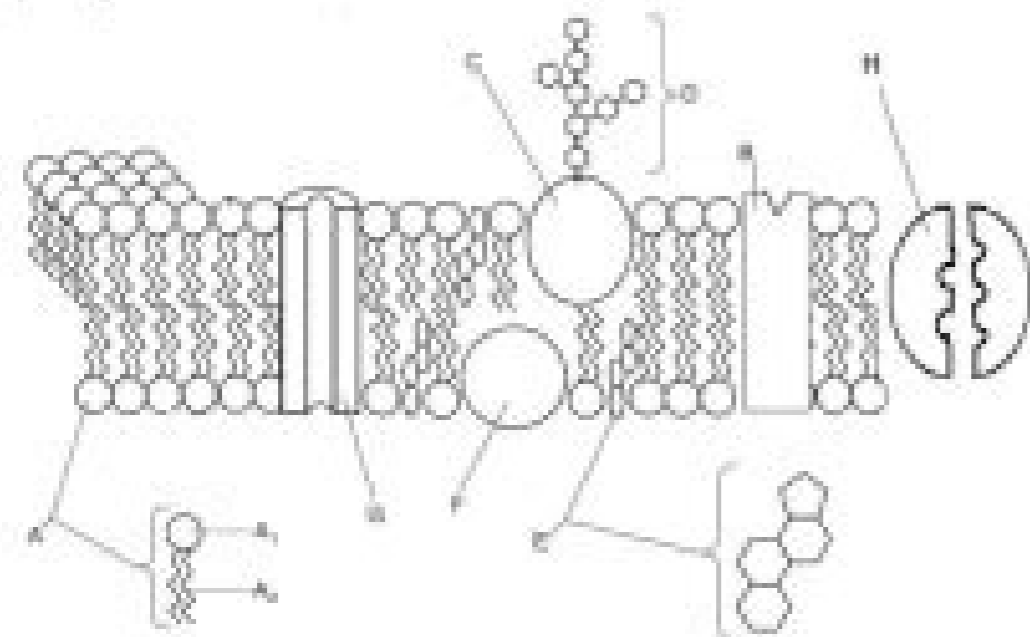
- Importance of Using Sunscreen

Sunscreen
 Since the number one risk factor for skin cancer is sun exposure, the use of sunscreen is the best prevention.
 UV-A radiation will not cause sunburn, but can still increase the risk of skin cancer. Only broad spectrum sunscreens actually block both UV-A and UV-B radiation.

- Diagram (epidermis, dermis, hypodermis, hair follicle, sebaceous pit, sudoriferous gland, sebaceous gland)



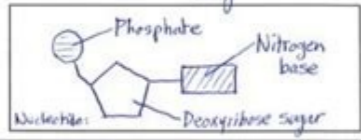
Cell Membrane Coloring: Color each structure a different color. Indicate the structure color by coloring the circle next to the structure name with the corresponding color.



- A: Phospholipid
- A1: Hydrophilic phosphate head (yellow)
- A2: Hydrophobic fatty acid tails (you may simply trace the lines in the picture; DO NOT shade the entire middle section of the bilayer) - (pink)
- B: Receptor protein - (blue)
- C: Glycoprotein: protein with a carbohydrate attached, often used to identify cells (light blue)
- D: Carbohydrate chain - (orange)
- E: Cholesterol - (brown)
- F: Peripheral protein (light green)
- G: Channel protein (also an example of an integral protein) - (tan)
- H: Active transport (Sodium/potassium pump) (red)

B Biology HL: DNA Structure & Replication Review

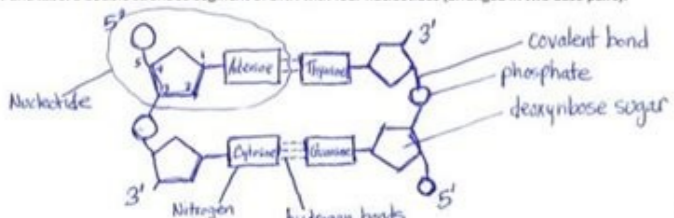
1. Draw a single nucleotide, labeling the phosphate, deoxyribose sugar and nitrogen base, in the box to the right.



2. Compare DNA and RNA.

DNA	RNA
Similarities: Nucleic acid polymers made up of nucleotides - Contain nitrogen bases Adenine, Guanine, and Cytosine	
Differences:	
Deoxyribose sugar	Ribose sugar
Double-stranded (helix)	Single-stranded (non-helix)
Thymine is fourth nitrogen base	Uracil is fourth base

3. Draw and label a double stranded segment of DNA with four nucleotides (arranged in two base pairs)



4. The diagram shows a DNA double helix. How does a double helix form? What keeps hold it in position?

DNA double helix is formed by two polynucleotide strands running antiparallel to one another. Covalent bonds join nucleotides in sugar-phosphate backbone. Hydrogen bonds join nitrogen base pairs.

5. Draw and label a nucleosome - size of 6 histone proteins



6. What are the functions of nucleosomes?

Nucleosomes allow packaging / supercoiling of DNA into chromosomes for easy separation in mitosis/meiosis. When DNA is wrapped around nucleosomes it cannot be transcribed/translated so this allows genes to be turned off.

7. Describe what is meant by "highly repetitive DNA sequence" and list several functions of these sequences.

Nucleotide sequences in DNA that do not code for production of proteins - also called introns. Repeating these letter patterns are ~5-300 letters long (or more) and build up mutations quickly without affecting organisms (since they don't code for traits) which makes them helpful for DNA fingerprinting. They also make up telomeres, produce RNA and rRNA, and help promote or silence gene expression.



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