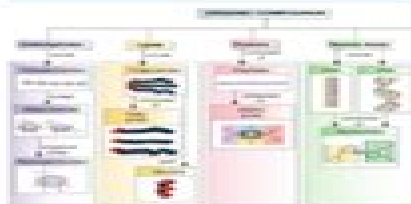


MACROMOLECULES

Common Functional Groups

Hydroxyl	-OH	polar
Carboxyl	-COOH	polar
Carbonyl	-CO	polar
Amino	-NH ₂	polar
Phosphate	-PO ₃	polar
Methyl	-CH ₃	non-polar
Sulfhydryl	-SH	non-polar

Organic Compounds Overview



*more details underneath this block

Carbohydrates

Monosaccharides	Disaccharides	Polysaccharides
- glucose	- sucrose	- "starch"
- fructose	- lactose	- cellulose
	- dextrose	- chitin
	- maltose	- amylose
	- galactose	- glycogen

*sugars can dissolve in H₂O because they are NON-POLAR!

Lipids

Triglycerides	Phospholipids	Steroids
-made of glycerol and fatty acids	-forms a bilayer (membranes)	-4 rings
-three "strands"	-polar, hydrophilic heads	-cholesterol
-no kink = saturated	-nonpolar, hydrophobic tails	-estrogen
-kink = unsaturated		-testosterone

Non-ionized form of amino acid



*R groups can be a mix of the following: unchanged, non-polar, polar, hydrophilic, hydrophobic

*amino acids are joined by a **PEPTIDE BOND**
*this results in a dehydration (taking H₂O out)

*protein = shape

Nucleotides

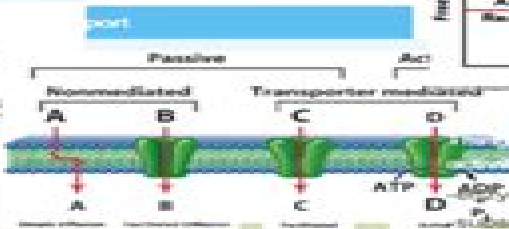


*amount of Pi (phosphate group) can change

TRANSPORT/ENZYMES

Osmosis

Hypertonic	Hypotonic	Isotonic
high solute, less water	low solute, high water	equilibrium
cell shriveled	cell swells (hippo)	cell is normal



*more descriptions below

Endocytosis



Exocytosis



Enzymes

-bind to a substrate. These fit depending on the **SHAPE** of enzymes

-competitive inhibitors can block substrates by changing the shape of the enzyme

Enzymes are catalysts



*that factor enzyme

enzyme concentration
substrate concentration

-temperature
-pH

*enzymes have an optimal temp. and pH
*this depends on the specific enzyme!

*enzymes usually can go back to its original form, unless it **DENATURES**



Biology Study Guide Cheat Sheet

Lee Tang



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