Biomolecule Study Chart

Categories	Carbohydrates	Lipids	Proteins	Nucleic Acids
Structure	C, H, O in ring shape	C, H, O in long chain	C, H, O, N -Amino -Carboxyl -R group	C, H, O, N, P -Sugar -Phosphate Group -Nitrogenous base
Function	-Short term energy -long term energy -structure (ex. cell wall)	-long term energy -cell membrane bilayer -cell signal	-enzymes -cell signal -membrane proteins -antibodies	-store & transmit genetic code
Monomer	Monosaccharide (ex. glucose)	Fatty Acids (ex. saturated & unsaturated)	Amino Acids (20 different R group)	Nucleotide
Polymer	Polysaccharide Glacose sedescoles Starch Starch Starchardeness	Triglyceride (3 fatty acid + glycerol)	Polypeptide	Polynucleotide
Special Characteristics	N in Chitin (structural)	P in phospholipid	Sulfur in some amino acid - form disulfide bridges in 3* and 4*	DNA vs. RNA L Thymine Unacil Double Single Decxyribose Ribose

Biology Biomolecule Study Guide Answers

Henrik Flyvbjerg,Frank Jülicher,Pal Ormos,Francois David

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