

Precursors		Stabilizing Forces		Classes of Precursor Molecules	
Linear Polymers	- Covalent bonds - nucleotides in DNA and RNA - too big to fit in a cell - fold into complex 3D shapes	London Forces (dispersion, induced dipoles)	- Weakest - electron clouds overlap, short lifespan, constantly breaking and reforming	Carbohydrates	PRIMARY ENERGY SOURCE - Most abundant molecule in biosphere - Sugars - Play a role in other molecules
Supramolecular Complexes	- Groups of linear polymers - enzymes, ribosomes...	Hydrophobic Interactions	- Special London force, non-polar molecules dissolved in water. The two don't mix so H₂O forms a rigid structure around the non-polar molecules	Lipids (fats and oils)	- excess of everything - energy reserve (reservoir) - can store an infinite amount - stored in adipose cells - MAIN COMPONENTS OF THE CELL MEMBRANE (barrier)
Subcellular Organelles	- Golgi - ER - Group of supramolecular complexes	Dipole-Dipole Interactions		Amino Acids	- serve as a precursor to the proteins - Bio source for nitrogen and sulfur - can be oxidized for energy in case of starvation
--> Cells --> Tissues	--> Organisms	Hydrogen Bond	- Strong Dipole-dipole interaction - attached to N, O, F (F not in living cells) - lots of attractive force	Nucleotides	- DNA and RNA - Trap and shuttle energy - ATP - signal transduction (<i>turns hormone into a cellular response</i>)
Cell Requirements to live, grow and propagate		Electrostatic Interactions	Ion pairing or salt bridges	Ochem v. Biochem	
Precursors (that which comes before)	precursors are oxidized for energy or combined to form larger biomolecules	<i>Energy decrease = more stable when nonpolar molecules interact with each other surrounded by water</i> - The 5 hold life together		Organic chemistry is about carbon compounds	Bio chemistry is about carbon compounds that crawl
Energy	to drive chemical reactions and/or other cellular processes (ex: muscle contractions)	General Definitions			
Information	to direct and control cellular growth, propagation and response to environmental change	Biochemistry: the study of the matter that makes up living things Structural Complementarity: what holds us together			



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Page 1 of 1.

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