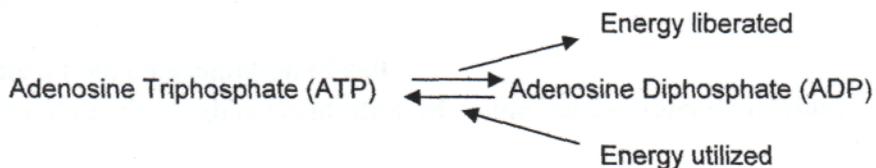
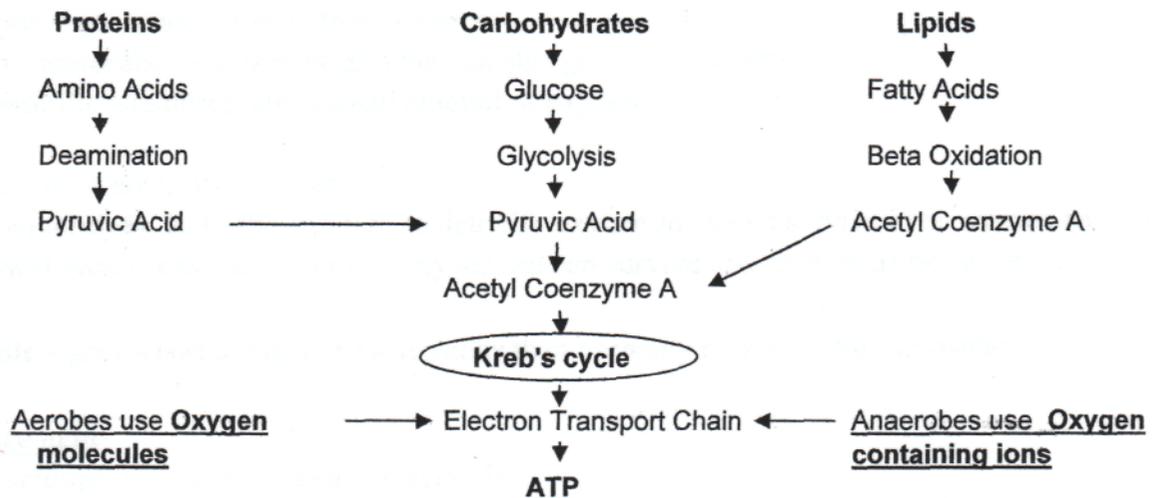


Cellular Metabolism and Energy

- * Sun is the ultimate source of energy
- * When chemical bonds are made, energy is utilized: When they are broken energy is released.
- * **Anabolism** is building larger molecules from simple molecules: utilizes energy
- * **Catabolism** is breaking down larger molecules into smaller molecules: releases energy
- * **Endergonic** reaction: energy is absorbed
- * **Exergonic** reaction: energy is released
- * For energy to be formed, all nutrients need to go through a metabolic pathway called
Kreb's cycle [Citric Acid Cycle, Tricarboxylic Acid (TCA) cycle]

These nutrients enter the chemical pathway at different levels:
Glucose at glycolysis level; Amino acid at pyruvic acid level and fatty acids at
Acetyl coenzyme A levels



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