

## CLASSIFICATION

#### A. LEVELS OF TAXONOMIC CLASSIFICATION

= (largest to smallest) Domain, Kingdom, Phylum, Class, Order, Family, Genus, Species.

## ALTERNATE CAP LAYOUT



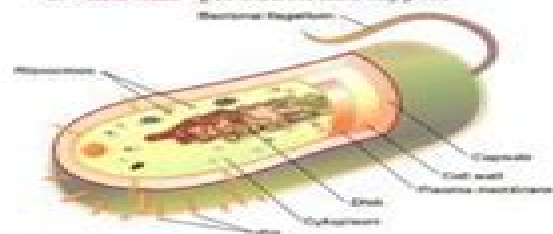
## CELL BIOLOGY

## A. CELL THEORY

1. All living things are made up of one or more cells.
2. The cell is the basic unit of structure and function.
3. All cells come from existing cells.

#### II. PROKARYOTIC CELL STRUCTURE

1. **Plasma membrane** – regulates what enters and leaves the cell
2. **Flagellum** – locomotion
3. **Ribosomes** – sites of protein production (RNA) – protein synthesis
4. **Pili** – used for attachment to other bacteria or to a host
5. **Plasmid** – small circle of DNA separate from main chromosome loop
6. **Cell wall** – protection and support



### C. EUKARYOTIC CELL STRUCTURE

1. **Plasma membrane** – regulation of internal environment
2. **Mitochondria** – membrane-enclosed – energy-producing reactions
3. **Chloroplasts** – plants – photosynthesis
4. **Lysosomes** – storage for digestive enzymes
5. **Smooth Endoplasmic reticulum (SER)** – protein and lipid synthesis
6. **Rough Endoplasmic Reticulum (RER)** – produces, modifies, and transports proteins – has ribosomes attached
7. **Ribosomes** – particles composed of ribonucleic acid (RNA) – protein synthesis
8. **Golgi apparatus** – stores, modifies, and packages secretory products
9. **Peroxisomes** – contain oxidative enzymes
10. **Vacuoles** – fluid-filled spaces – storage
11. **Cell wall** – plants – protection and support

12. **Centriole, centrosome** – animal cells – cell division  
13. **Cilia, flagella** – locomotion and ingestion  
14. **Nucleolus** – in nucleus – ribosome synthesis



- D. LIMITATIONS ON CELL SIZE** — As cell size increases, surface area-to-volume ratio increases. If the ratio becomes too high, the cell surface is not large enough to carry out its function. It cannot allow materials into or out of the cell quickly enough to support necessary life processes.

## E. STRUCTURE OF THE CELL MEMBRANE



## EXCHANGE BETWEEN CELL AND ENVIRONMENT

- A. **DIFFUSION** - movement of ions or molecules down a concentration gradient
- B. **OSMOSIS** - movement of water molecules across a membrane down a concentration gradient
  - 1. **Isotonic medium** - same solute concentration as cell
  - 2. **Hypertonic medium** - higher solute concentration than cell; cell loses  $H_2O$  (shrink)
  - 3. **Hypotonic medium** - lower solute concentration than cell; cell gains  $H_2O$  (expand)
- C. **ACTIVE TRANSPORT** - movement against a concentration gradient; requires energy input from cell

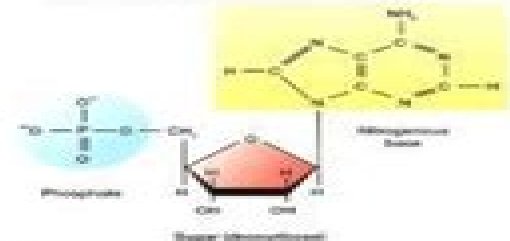
- D. ENDOCYTOSIS** - cell encloses material (includes phagocytosis of solid particles); a form of active transport
- E. EXOCYTOSIS** - cell discharges vacuole-enclosed material; a form of active transport

## METABOLIC AND ENERGY-PRODUCING PATHWAYS

- A. ENZYME** - protein catalyst speeds reaction by lowering energy of activation
1. **Substrate** - molecule on which enzyme acts
  2. **Coenzyme** - binds briefly to enzymes; activates and assists enzymes
  3. **ATP** - adenosine triphosphate; energy stored in phosphate-phosphate bonds; energy released when bonds are hydrolyzed
  4. **NAD** - nicotinamide adenine dinucleotide; part of electron transport system
- B. PHOTOSYNTHESIS** - chloroplasts -  $6\text{CO}_2 + 6\text{H}_2\text{O} + \text{light, chlorophyll} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
- C. CELLULAR RESPIRATION** - generates ATP
1. **Glycolysis** - initial stage of respiration - cytoplasm - anaerobic - activation of glucose (by ATP), with production of pyruvate (net gain of 2 ATP)
  2. **Krebs (citric acid) cycle** - second stage of respiration - mitochondria - aerobic - pyruvate broken down with production of  $\text{CO}_2$ , 2 ATP and many electron carriers
  3. **Electron (hydrogen) transport chain** - third stage of respiration - mitochondria - aerobic - hydrogen and electrons stripped from carriers with production of 32 ATP

CON

- A. NUCLEOTIDES** – subunits of nucleic acids
1. Phosphate
  2. Sugar (deoxyribose in DNA, ribose in RNA)
  3. Nitrogenous base (four in DNA): Adenine (A), Thymine (T), Guanine (G), Cytosine (C)



### III. STRUCTURE OF DNA

1. Sugar-phosphate groups - sugar is deoxyribose
2. Nucleotides
3. Double helix - sugar-phosphate groups form backbone (sides of 'ladder'), pairs of nucleotides form 'rungs of ladder'; nucleotide pairs joined by hydrogen bonds: A always pairs with T, C always pairs with G

## REGULAR GRAPHS

- ### A. DEFINITIONS
1. **Gene** – a location on a chromosome, typically codes for one polypeptide
  2. **Alleles** – different forms of a gene
  3. **Chromosome** – structure made up of DNA and associated proteins
  4. **Genotype** – genetic makeup of an organism
  5. **Phenotype** – visible expression of genetic material

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**North Carolina. Department of Public  
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