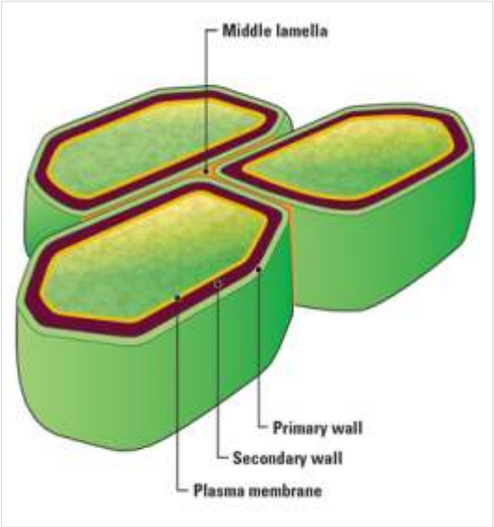
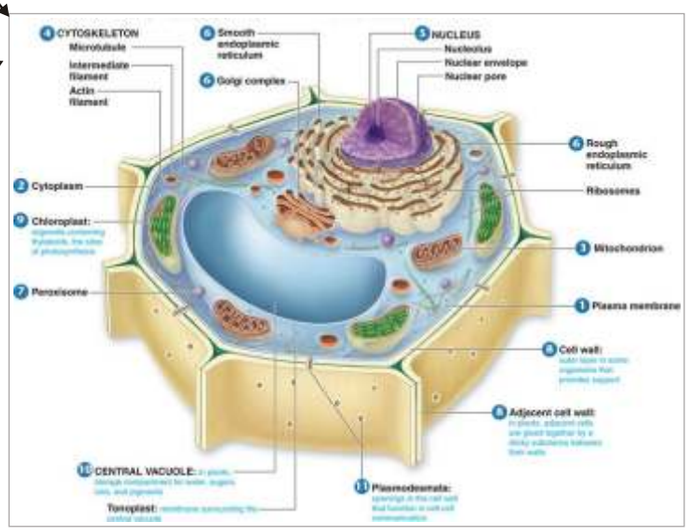
CELL

- **CELL THEORY**
  - Schleiden & Schwann
  - R.Virchow
- Longest-Nerve cell
  Largest - ostrich egg
  Smallest - PPLO/mycoplasma
- **CELL SIZE**
  - Prokaryotic
    - No membrane bounded organelles
    - Loose DNA in cytoplasm
      e.g. BGA, bacteria, PPLO
  - Eukaryotic
- Collect Together to make
  - Tissue e.g. skin
    - Organs e.g. Heart
- Can be Seen by
  - Microscope
- Type of cell
  - Prokaryotic
  - Eukaryotic

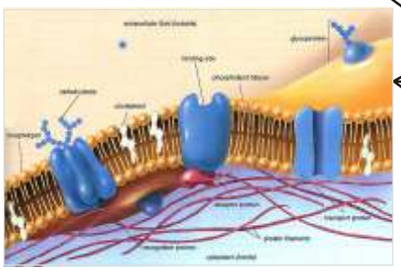




CELL MEMBRANE

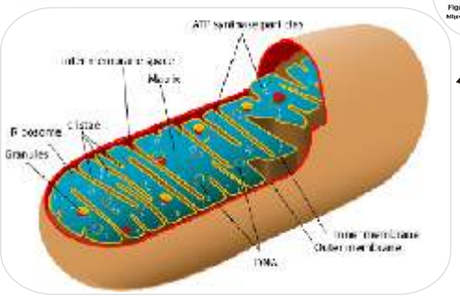
(BARRIER FOR CELL & meant for transportation inside & outside the cell)

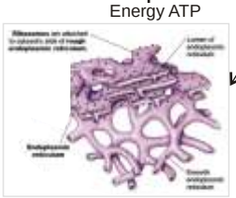
- Cell wall (rigid) (only in plants)
- Plasma membrane (fluid mossaic model)

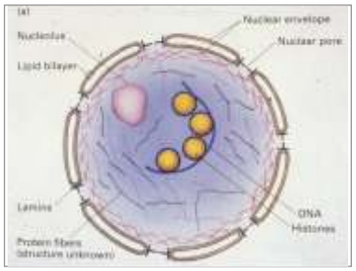


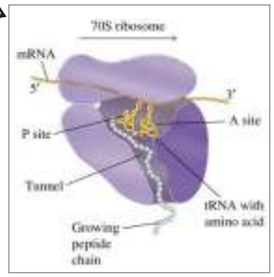
PROTOPLASM

- **CYTOPLASM**
  - **Cytosol**
    - **Double Membranous**
      - Plastids (kitchen) (Only in Plants)
      - **Mitochondria (Power house)**
        - Energy ATP
    - **Non Membranous**
      - **Single membranous**
        - **ER (Transportation)**
          - Smooth ER
          - Rough ER (Protein factors)
        - **Golgi (Trafficking)**
        - **Vacuole** (Maintains Osmoregulation of cell)
        - **Lysosome (Suicidal Bags) or (waste dispasable system)**
          - Contain Hydrolytic enzymes
      - **Ribosome** — **Protein synthesis**
  - **Cell Organelles**
- **NUCLEUS (HEAD QUARTER)**
  - Chromatin — Cell division
  - Nucleolous









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