

Some Important Biological Principles

- Living things obey physical and chemical laws.
- All living things use energy.
- Life has changed over time(The Principle of Evolution).
- Life comes from life(Biogenesis).
- There is a molecular unity of living things.
- Organisms evolve by natural selection.
- Structure is related to function in living things.
- All living things reproduce themselves.
- Living things are responsive.
- Organisms that have morphological and biochemical characters in common are descended from common ancestors.
- Internal growth is a characteristic of life.
- The basic unit of life is the cell.
- Organisms maintain a constant internal environment(Homeostasis).
- Evolution is irreversible.(Dollo's Law)
- All organisms are adapted to their environment.
- Genes composed of DNA are the units of heredity.
- Genes can be changed(mutation).
- An organism inherits its genes from its ancestors.