Classification of Organism

- 1. There are millions of organisms. It is impossible to study each individual separately. Classification means to categories organism into different groups. Study of an individual of a group gives us the idea of rest of the member of that group.
- 2. Linnaeus divide all organism into two kingdoms Planate and Animalia in his book "System a Nature". The foundation of modem classification system was laid in the line of classification system started by Linnaeus. Therefore L nnae s is called 'Father of Taxonomy'. Due to disputed position of organism ike bacte ia, virus, fungi and euglena, there is a need of reconsideration of syst of classification.

Five Kingdom Classification

- 1. Five Kingdom Classification was proposed in 196 by R.H. Whittaker. The criteria of classifying organism into five kingd are it complexity of cell structure, complexity of body of organism, mode of utrition, life style and phylogenetic relationship.
- **1. Monera**: It includes all prokaryot organism ike bacteria, cynobacteria and archiobactera. Filamentous bacteria al o come under this kingdom. All organism of this kingdom are mic oscop c.
- **2. Protista :** This kingdom in ludes uni ellular form usually found in aquatic habitats. On the basis mode f nutrition they are autotrophic, parasitic, and saprophytic. Diatoms flagellates a d protozoa come under this kingdom. Euglena have both heterotro hic and autotrophic mode of nutrition. So, it is placed between plant nd an mal.
- **3. Fungi :** Thi ki gdom includes non-green plants. It has saprophytic nutrition and gr wing dead and decaying organic matter. The cell wall is composed of chitin. E mple Mushroom, Mucor, Albugo etc.
- **4. Planatae :** This kingdom includes all plants except some algae, diatoms, fungi and member of onera and protista.
- **5. Animalia :** Almost all animal comes under this kingdom except protozoan.

Binomial nomenclature: There was the need of uniform international naming of organism. In biology every organism is given two proper names. The first name is genus name always started with capital letter and the second name is species

started with small letter. For example scientific name of human is Homo sapiens. Homo is the name of genus, whose one species is sapiens.

