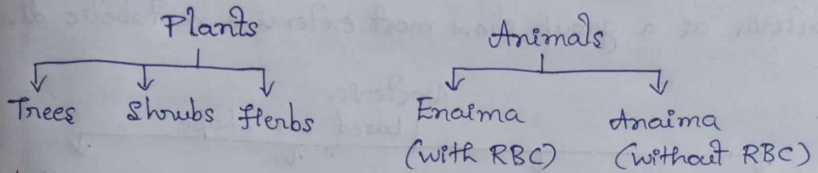


Biological Classification

Introduction

(1) Aristotle - earliest



(2) Linnaeus - 2 kingdom classification
Plant, Animal

(3) Haeckel - 3 kingdom classification
Plant, Animal, Protista

(4) Copeland - 4 kingdom classification
Plant, Animal, Protista, Monera

Limitations of earlier classification

- (1) Included Bacteria, Blue-Green Algae, fungi, mosses, ferns, gymnosperms & angiosperms under plants. (because all had cell wall)
- (2) Brought together prokaryotic bacteria B.G.T with eukaryotes
- (3) Grouped unicellular and multicellular
Eg:- Chlamydomonas and Spirogyra under Algae
- (4) Did not differentiate heterotrophic fungi and autotrophic green plants, though showed difference in wall composition
- (5) R.H Whittaker - 5 kingdom classification - 1969

Plant, Animal, Protista, Monera, Fungi

Main Criteria

- (1) Cell structure
- (2) Body organisation
- (3) Mode of Nutrition
- (4) Reproduction and Phylogenetic relationships

Benefits

- (1) Prokaryotes - grouped under Monera & unicellular eukaryotes under Protista