



Plant Kingdom



IMPORTANT POINTS

Fungi, Monerans, protists were earlier included in plant Kingdom but not now. BGA is not an algae anymore

Various Systems of classification

Earlier systems were based on gross morphology like habitat, colour, no. & shape of leaf

Artificial system

Based mainly on vegetative characters (easily affected) or on the androecium structure. Eg- Linnaeus classification of plants based on no. Of androecium. It had drawbacks like it separated closely related species, were based on few characters & equal weightage given to vegetative & sexual characters.

Natural system

Based on natural affinities among organisms & consider external, internal, ultra structure, anatomy, embryology, photochemistry. Eg- George Bentham & Joseph Dalton Hooker classification of flowering plants

Phylogenetic system

Most acceptable, based on evolutionary relationships, **organism** s belonging to **Same taxa** have common ancestor.

Different kinds of taxonomy

Numerical taxonomy

Based on observable characters using computers (no. & codes are assigned to each character) **each character is given equal importance.**

Cytotaxonomy

Based on chromosome no., structure, behaviour

Chemotaxonomy

Chemical constituents of the plant to resolve confusions

ALGAE/THALLOPHYTA

Introduction

They are chlorophyll bearing simple thalloid, autotrophic & largely aquatic (both fresh & marine) org. **Some algae form association with fungi (lichen), with animals (on sloth bear)**

Economic importance

They fix 1/2 of the total CO₂. They are primary producers & is energy source for aquatic animals. Eg- PORPHYRA, LAMINARIA, SARGASSUM are used as food. Algin (brown algae) & carrageen (red algae) produce hydrocolloids (water holding subst.) Agar is produced from Gelidium & gracilaria. Chlorella and spirulina are used as space food (SCP-Single cell protein)

Size & form

Chlamydomonas (microscopic unicellular), volvox (colonial), ulothrix & spirogyra (filamentous), kelps (massive marine form)

Reproduction

Vegetative

By fragmentation. Each fragment develops into thallus

Asexual

By production of zoospores (motile)

Sexual

By fusion of 2 gametes



Isogamous

Gametes are similar in size
1) if motile- chlamydomonas
2) if nonmotile- spirogyra

Anisogamous

Gametes are different in size but of same capability to move. Eg- some species of chlamydomonas i.e. Udonina

Oogamous

Female gamete is non motile but male is motile. Eg- volvox, fucus

Table 14.1: Features of algae and other plant-like organisms

Organism	Chlorophyll	Starch	Cell wall	Reproduction	Other features
Chlamydomonas	+	+	+	Isogamous	Microscopic, unicellular
Volvox	+	+	+	Isogamous	Colonial, multicellular
Ulothrix	+	+	+	Isogamous	Filamentous, multicellular
Spirogyra	+	+	+	Isogamous	Filamentous, multicellular
Kelps	+	+	+	Oogamous	Massive, marine form
Porphyra	+	+	+	Oogamous	Red alga, used as food
Laminaria	+	+	+	Oogamous	Brown alga, used as food
Sargassum	+	+	+	Oogamous	Brown alga, used as food
Agar	+	+	+	Oogamous	Produced from Gelidium & Gracilaria
Chlorella	+	+	+	Oogamous	Space food (SCP)
Spirulina	+	+	+	Oogamous	Space food (SCP)

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Ying-Ying Zheng



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