



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, organisms 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. Chlorocella 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. Uldorina

Oogamous

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

Figure 10.1 Diversity of algae (not to scale)

Algae	Phylum	Reproduction	Size & Form	Economic Importance
Chlamydomonas	Chlorophyta	Asexual	Microscopic unicellular	Space food (SCP)
Volvox	Chlorophyta	Asexual	Colonial	Space food (SCP)
Ulothrix	Chlorophyta	Asexual	Filamentous	Space food (SCP)
Spirogyra	Chlorophyta	Asexual	Filamentous	Space food (SCP)
Chlamydomonas	Chlorophyta	Sexual	Microscopic unicellular	Space food (SCP)
Volvox	Chlorophyta	Sexual	Colonial	Space food (SCP)
Ulothrix	Chlorophyta	Sexual	Filamentous	Space food (SCP)
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Ulothrix	Chlorophyta	Sexual	Filamentous	Space food (SCP)
Spirogyra	Chlorophyta	Sexual	Filamentous	Space food (SCP)

Plant Kingdom Study Guide

L Cohen

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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