



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. Chlorrella and spirullina 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	Class	Order	Family	Genus	Species
Chlamydomonas	Chlorophyta	Chlorophyceae	Chlorophyales	Chlamydomonadaceae	Chlamydomonas	Chlamydomonas reinhardtii
Volvox	Chlorophyta	Volvocales	Volvocales	Volvocaceae	Volvox	Volvox carolinianus
Ulva	Chlorophyta	Ulvales	Ulvales	Ulvacaceae	Ulva	Ulva lactuca
Sargassum	Chlorophyta	Sargassales	Sargassales	Sargassaceae	Sargassum	Sargassum muticum
Porphyra	Chlorophyta	Porphyrales	Porphyrales	Porphyrales	Porphyra	Porphyra umbilicalis
Gracilaria	Chlorophyta	Gracilariales	Gracilariales	Gracilariales	Gracilaria	Gracilaria tikvahiae
Gelidium	Chlorophyta	Gelidiales	Gelidiales	Gelidiales	Gelidium	Gelidium crinale
Chlorella	Chlorophyta	Chlorellales	Chlorellales	Chlorellaceae	Chlorella	Chlorella vulgaris
Spirulina	Cyanophyta	Spirulinales	Spirulinales	Spirulinales	Spirulina	Spirulina maxima

Plant Kingdom Study Guide

J Rink



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