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,embryol ogy,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 Geledium & gracilaria. Chlorella and spirullina are used as space food (SCP-Single cell protein)

Size & form
Chlamydomonas(microscopic unicellular),volvox(colonial),ulothrix & spirogyra(filament ous),kelps(massiv e 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. Udorina

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

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Jin-Ying Zhang

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