

ARJUNA NEET BATCH





Biological Classification

Lecture - 07

By: Biswajit Sir



Today's objectives

chrysophytes
Dinoflagellates
Euglenoids
Slime moulds



Chrysophytes

- includes desmids and diatoms

(golden algae)

-> microscopic and float passively along with water current.

chaysophytes are called planktons

- -> mostly photosynthetic
- aquatic | fresh water

 (mostry)

 marine



di utomite is for Diatoms -> bioindicator of water pollution fittration of gra , or /no of diatoms diatomite/diatomceous diatomite/diatomceous peasth/keiselguho Stoucture et diatoms epitheck - hypotheca 1) flagella except reproductive phase 4 absent t epithèce cu gets acumulated parenty parenty pover billions of (1) Cell wall thin (shell) thypothers, smaller, always newly indestructible
boverlapping like soap box

makes cw 4) made of cellulose and embedged with Silica L) covers primordial utricle ls peripheral cytoplasm

Auxospore

- -> 2n (diploid), unicellula o
- -) formed from zygote
- -, sexual spore
- walled
- -> helps the diatoms to retain their normal Site.
 - -> called rejuvenescent spore
 - -) found in several of diatoms

hormocyst

-, multicellular spore.

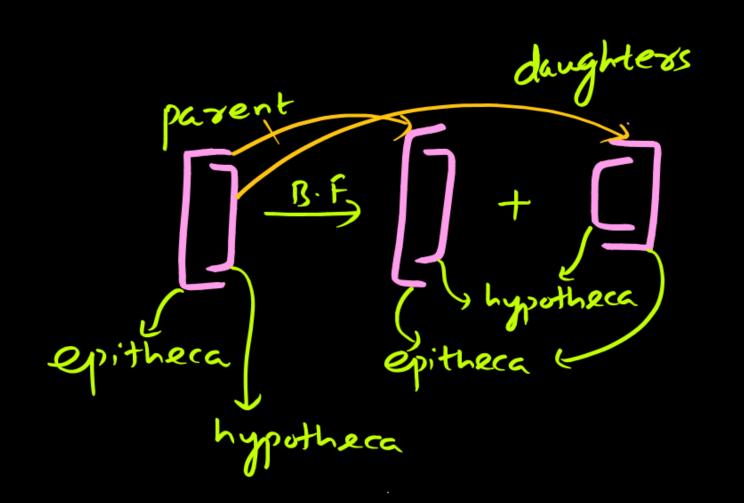
-) found in few BGA

Statospores

L) produced in diatoms L, asexual spore



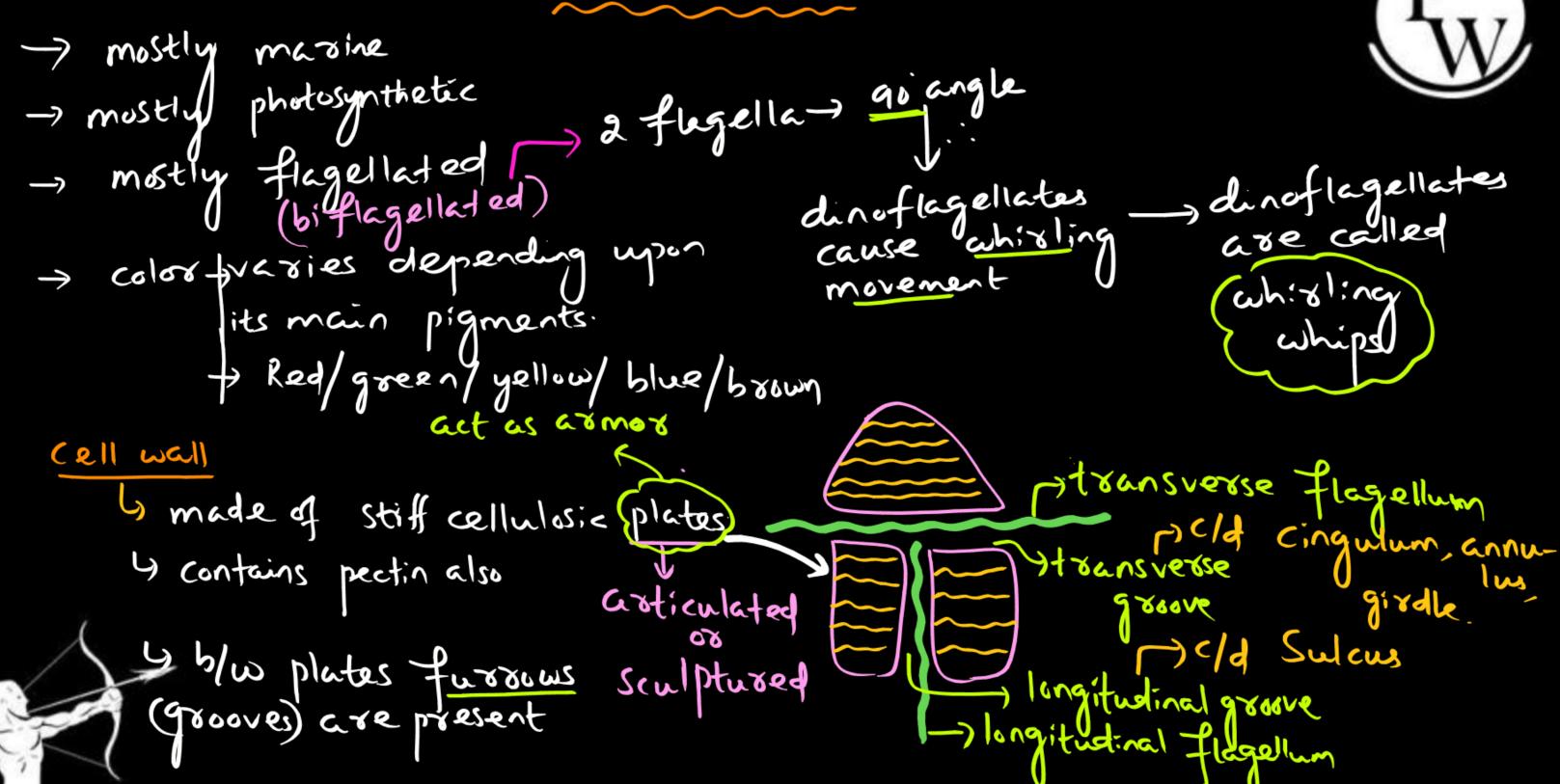




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Dinoflagellates



Nucleus

L, mesokaryon

G has chromosomes even in interphase

4 Muclear membrane persists in Mphase

histone - ve

Chloroplast

4 envelope -> 3 layered (3 membranes) 4 contains · 3 thylakoids

Mongaenlax

-) dinaflagellate

-> marine

> multiply rapidly result

make water red called

Red tide

-> release toxin saxitoxin

-) toxin in large quantity can Kill aquatic animals like tishes.



Euglenoids

-> includes both chlosophyllows and photosynthetic

-> mostly found in stagmant fresh water.

-) major genus of englenoids

→ cw → pellicle +ve

lagella

4 one-) larger, stichonematic

and Ismaller, smooth

nonchlosephylous members. nonphotosynthetic



mastigoneme pantonematic Stichonematic Smooth (whiplash) flagellum tinsel type Flagellum

Mudzition in Englana

* Euglena -> photosynthesis

photosautotoophic

Ly Euglena predates on other smaller organisms

Euglena becomes heterotrophic

Euglena - autotrophic + heterotrophic

Mixotrophic

Reproduction in Englana

avousable anfavousable conditions

longitudinal B.F. - Cyst

- Pamelle Stage



thanks for watching

