



Lecture No.:22

CORE CONCEPT OF
Group A - Algae

Date: 27th May, 2020
SUB./GEN. - PART 1

NOSTOC

Taxonomic position -
Class-Cyanophyceae
Order-Nostocales
Family-Nostocaceae
Genus-Nostoc

Occurrence - Both terrestrial and aquatic also as endophytes (in *Cycas* and *Anthoceros*) as well as symbiotic with fungi forming lichen.

Structure - Innumerable bead like chains of cells called **trichomes** which are aggregated together within mucilage to form Nostoc **balls** colonies.
Heterocysts in



the trichome are intercalary (sometimes terminal e.g N.linckia)

Reproduction - Only vegetative by :

A. Fragmentation - Hormogonia (formed by the rapture of trichome at the heterocyst).

B. Akinetes (a resting spore, containing reserve food, formed to tide over the unfavourable condition)

C. Endospores (contents of the heterocysts divide to produce endospores in N. microscopicum).

