

Division: Cyanophyta (Blue green algae)

Class: Cyanophyceae

Order 2: Oscillatoriales

Family 1 : Oscillatoriaceae

Genus 1: *Oscillatoria*

Genus 2: *Lyngbya*

Family 2 : Phormidiaceae

Genus 1 : *Phormidium*

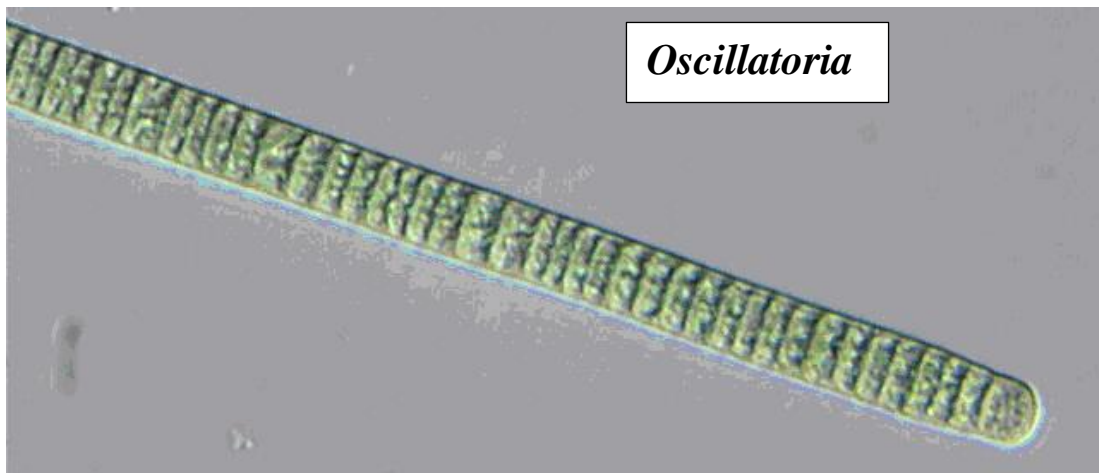
Genus 2: *Spirulina*

This order having **un- branched** filaments, **lacking** heterocysts and akinetes. Reproduction is by **break** of trichomes into few cell segments, **Hormogonia**.

1- Family: Oscillatoriaceae

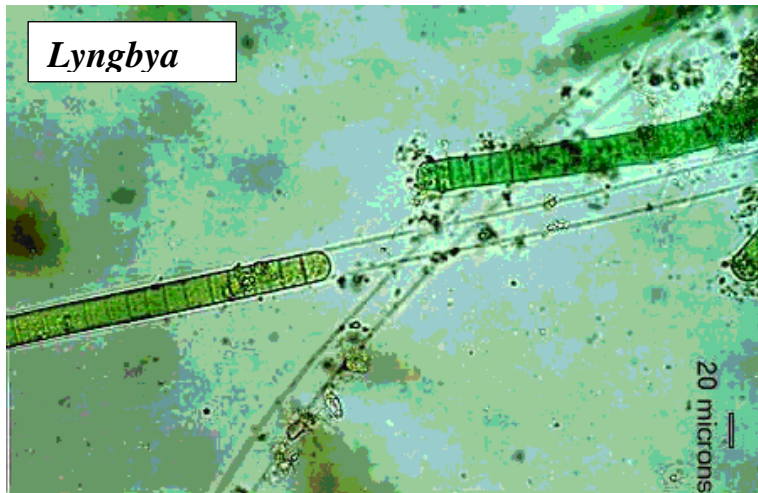
Genus 1: *Oscillatoria*

Trichomes **lack a sheath**, may be straight or bent, single or in groups, free floating or attached. Cells **wide** longer than its long. Sheath lacking, apical cell rounded.

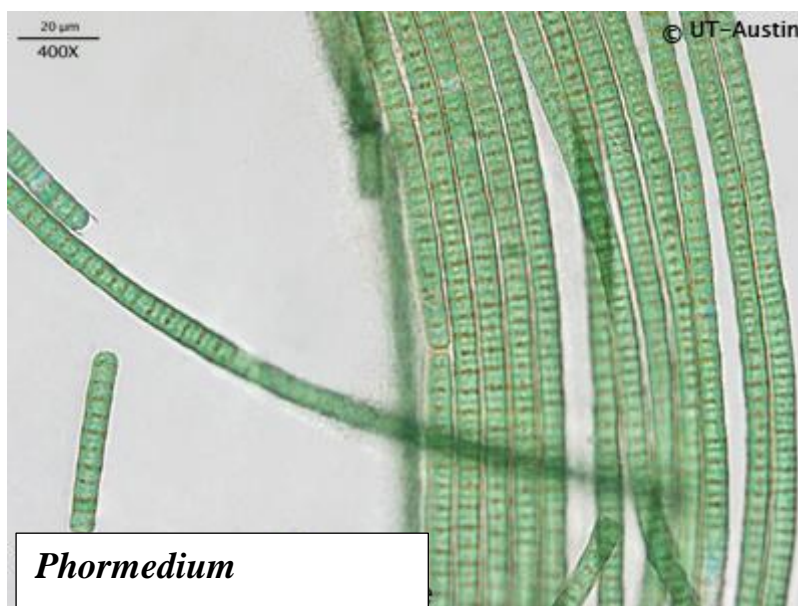


Genus 2: *Lyngbya*

The filaments occur singly or in free floating, this genus is differing from *Oscillatoria* **only in having a distinct sheath**. Sheath is firm and **thin**.

**Family 2 : Phormidiaceae****Genus 1 : *Phormidium***

Filamentous; filaments unbranched, rarely solitary, usually in fine, smooth, layered to leathery strata (mats), microscopic and later macroscopic to several cm diam.



Genus 2: *Spirulina*

Trichomes **without sheath**. The trichome regularly twisted into narrow spirals.

Grows in both **fresh** and **salt** water.

