

أولاً: العوالق النباتية

PHYTOPLANKTONS

أنواع العوالق المائية

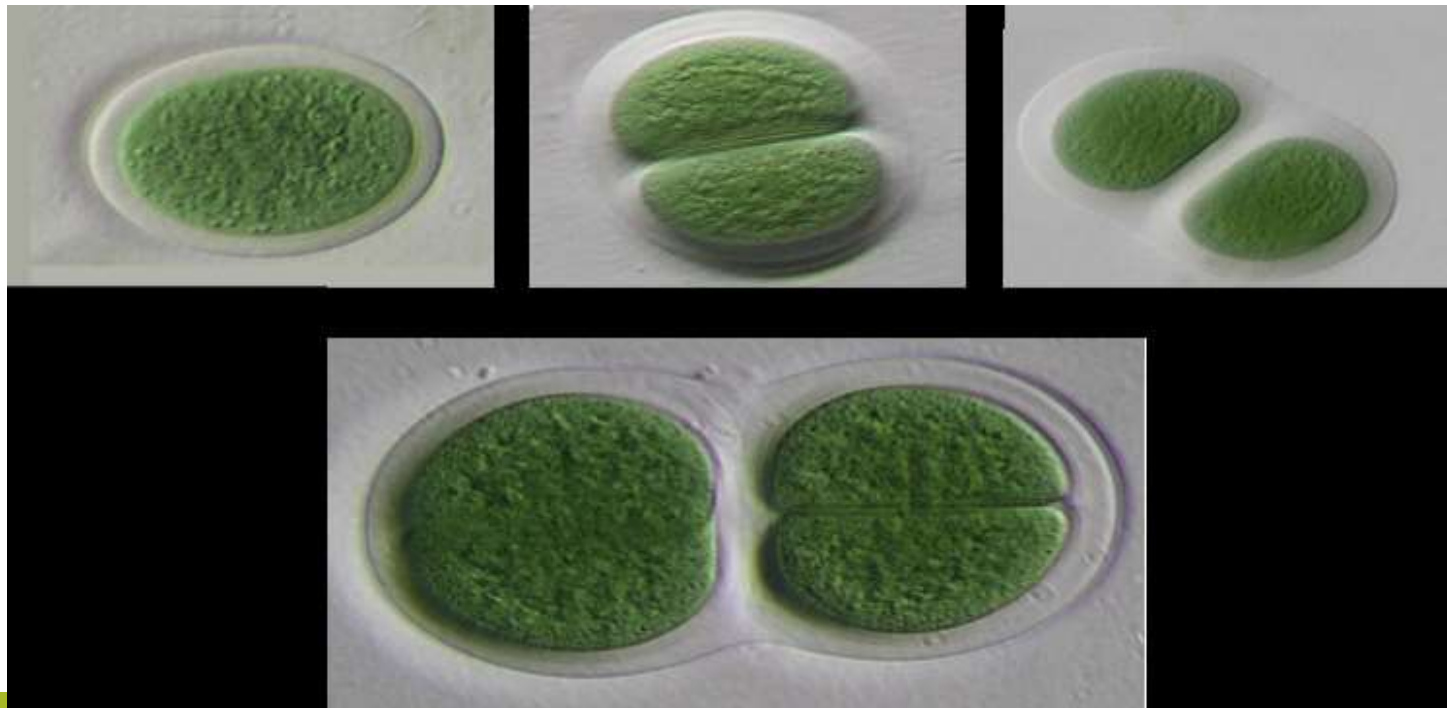
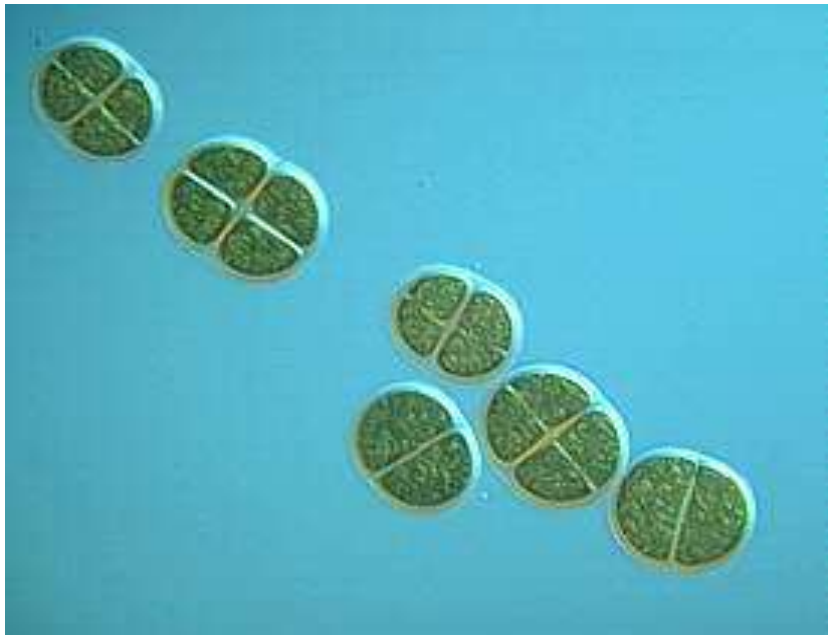
هناك أنواع مختلفة من العوالق
وسنتناول اليوم أمثلة من العوالق النباتية المختلفة

1- الطحالب الخضراء المزرقة Cyanophyta

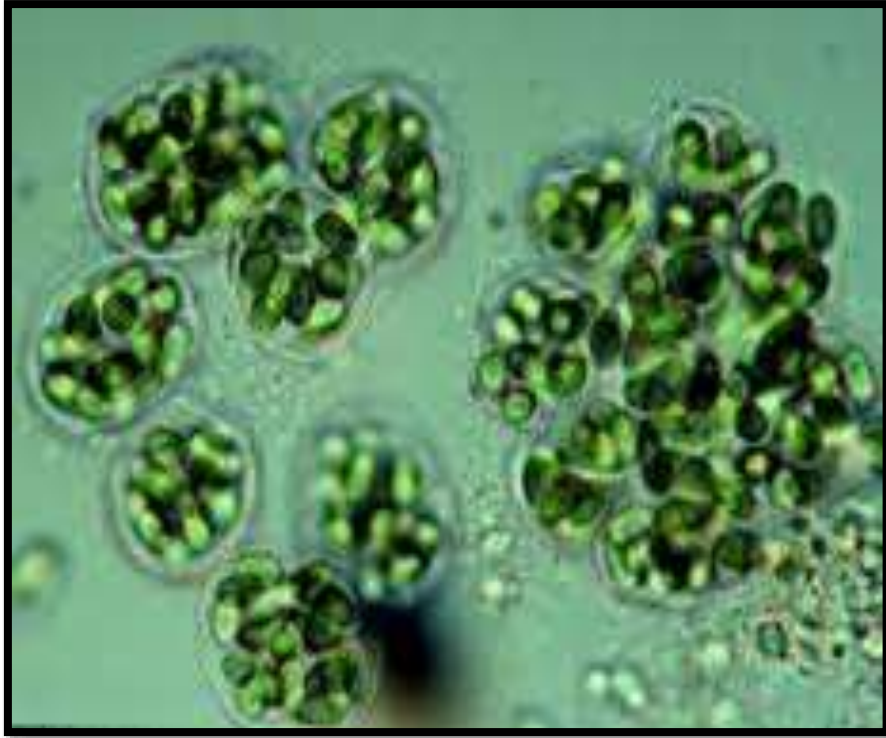
- **Division: Cyanophyta**
- **Class: Cyanophycophyceae**
- **Order: Chroococcales**
- **Family Chroococcaceae**
- **Genera:**
 - *Chroococcus*
 - *Gloeocapsa*
 - *Merismopedia*
 - *Microcystis*

3- *Chroococcus* ★



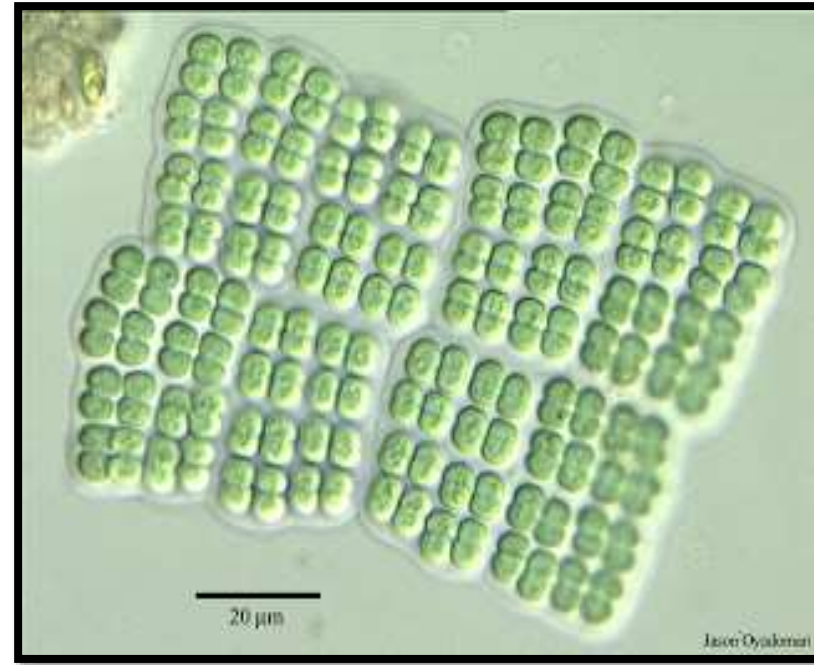
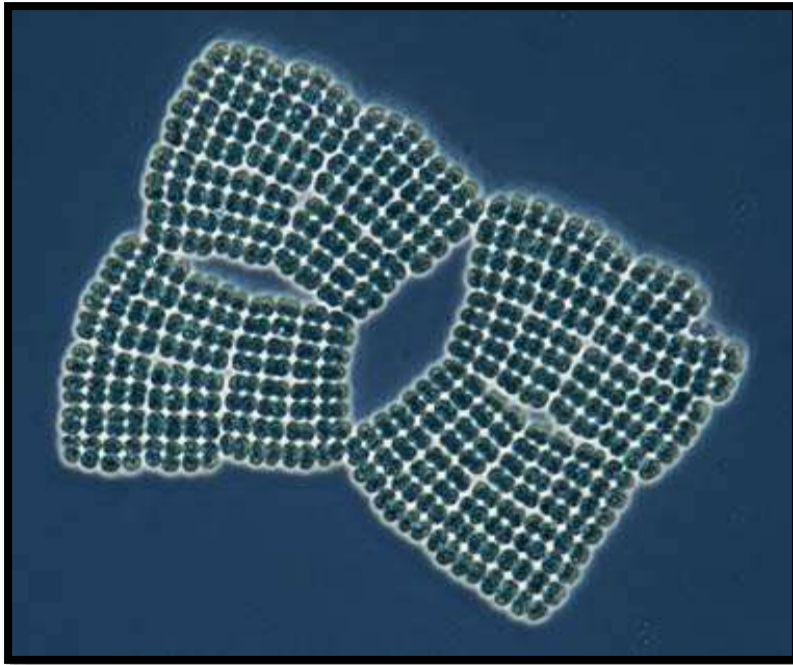


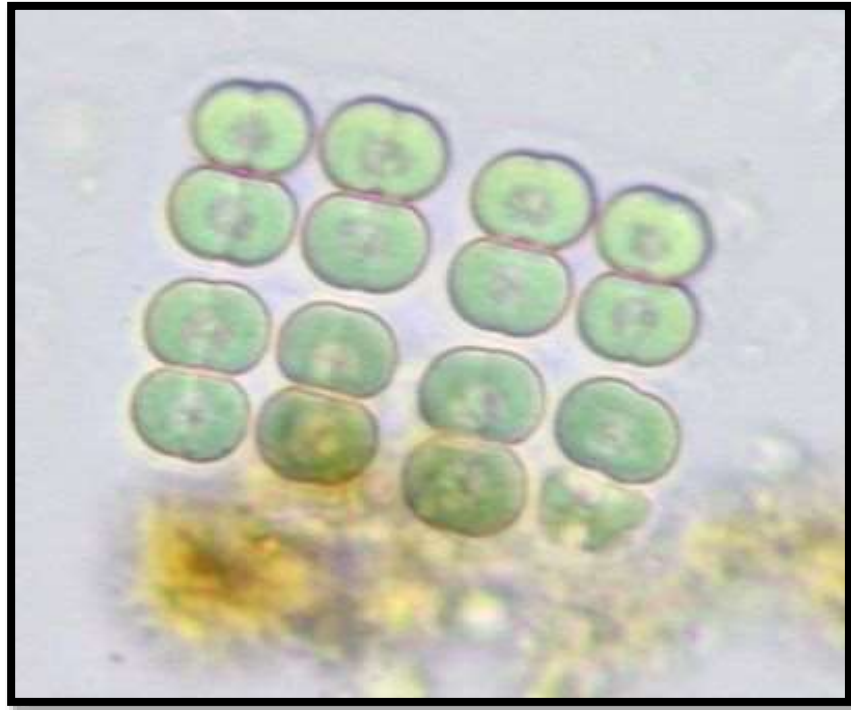
2- *Gloeocapsa*



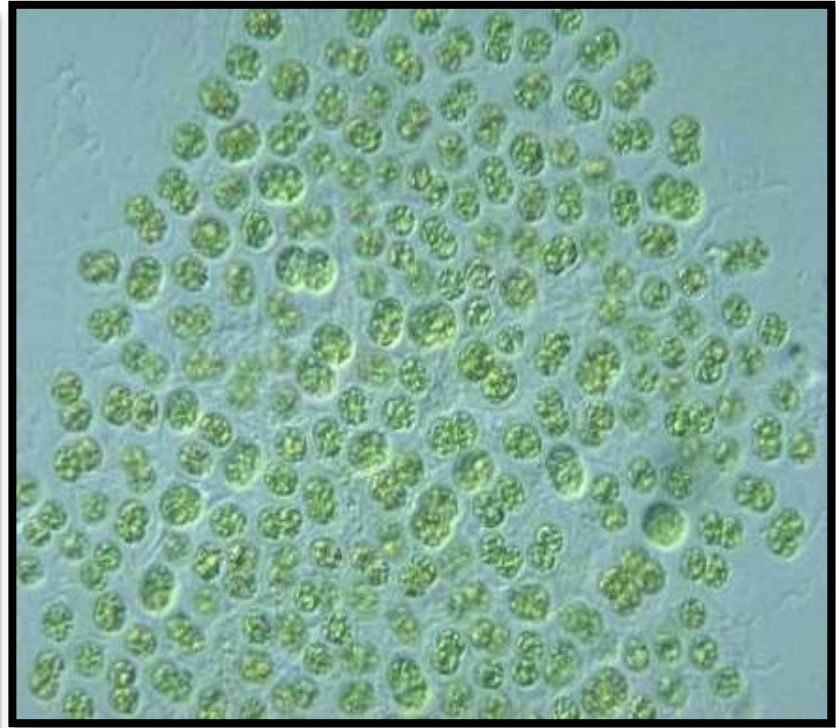
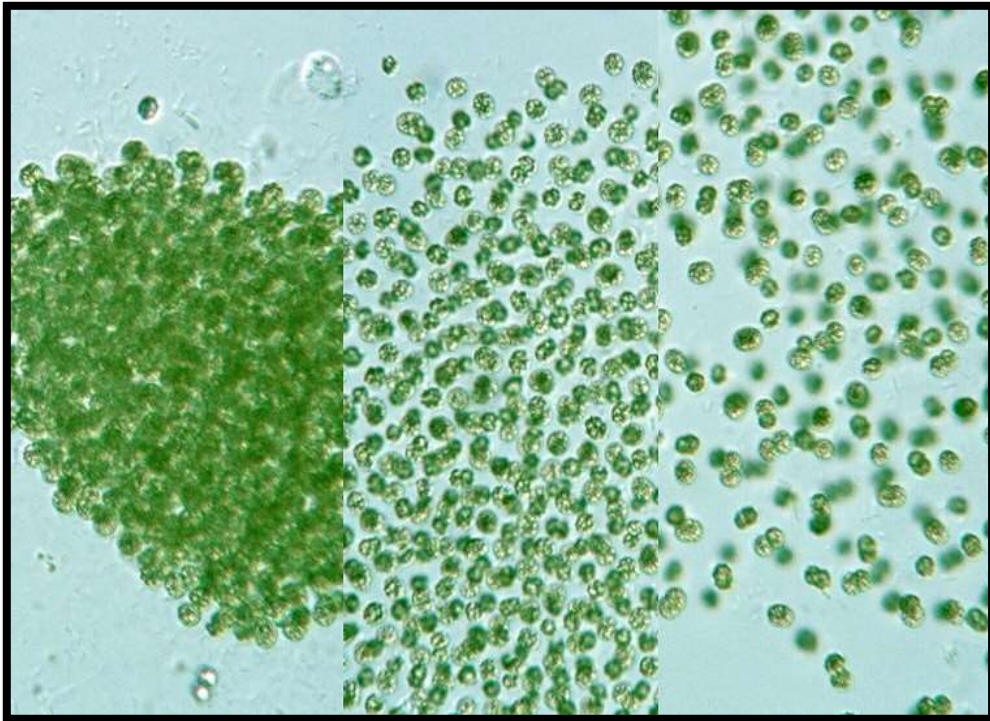


1- *Merismopedia*





5- *Microcystis*



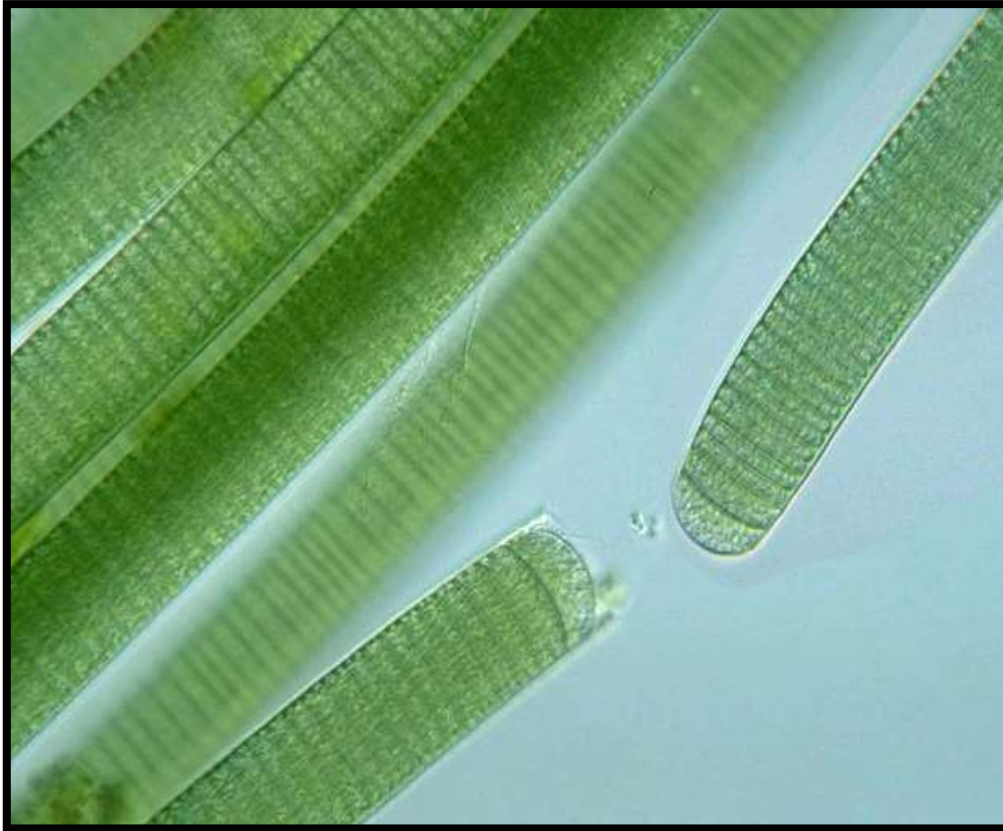


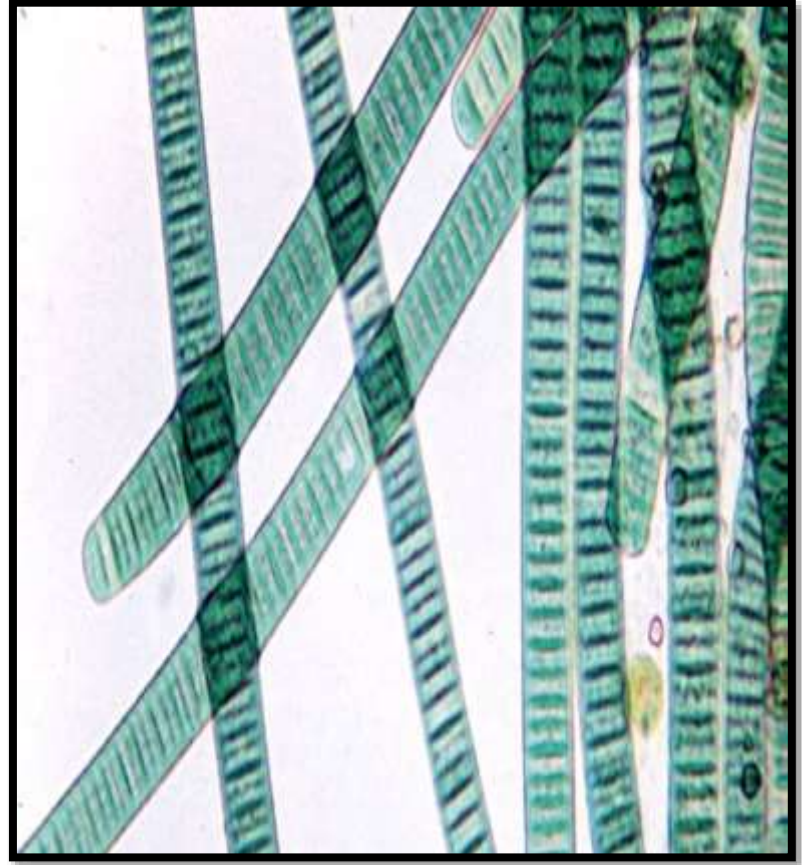
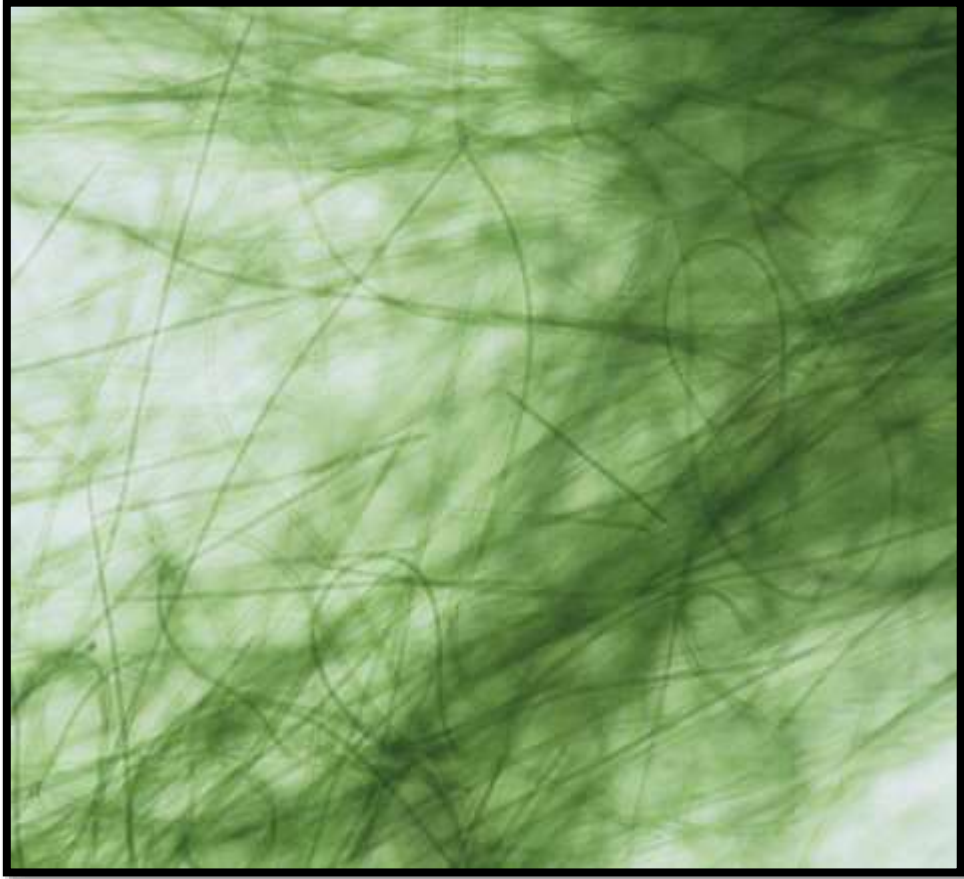
1- الطحالب الخضراء المزرقة Cyanophytae

- **Division: Cyanophyta**
- **Class: Cyanophycophyceae**
- **Order: Nostocales**
- **Family: Oscillatoriaceae**
- **Genera:**
 - *Oscillatoria*

- **Division: Cyanophyta**
- **Class: Cyanophycophyceae**
- **Order: Nostocales**
- **Family: Rivulariaceae**
- **Genera:**
 - *Gloeotrichia*
 - *Rivularia*

7- *Oscillatoria*





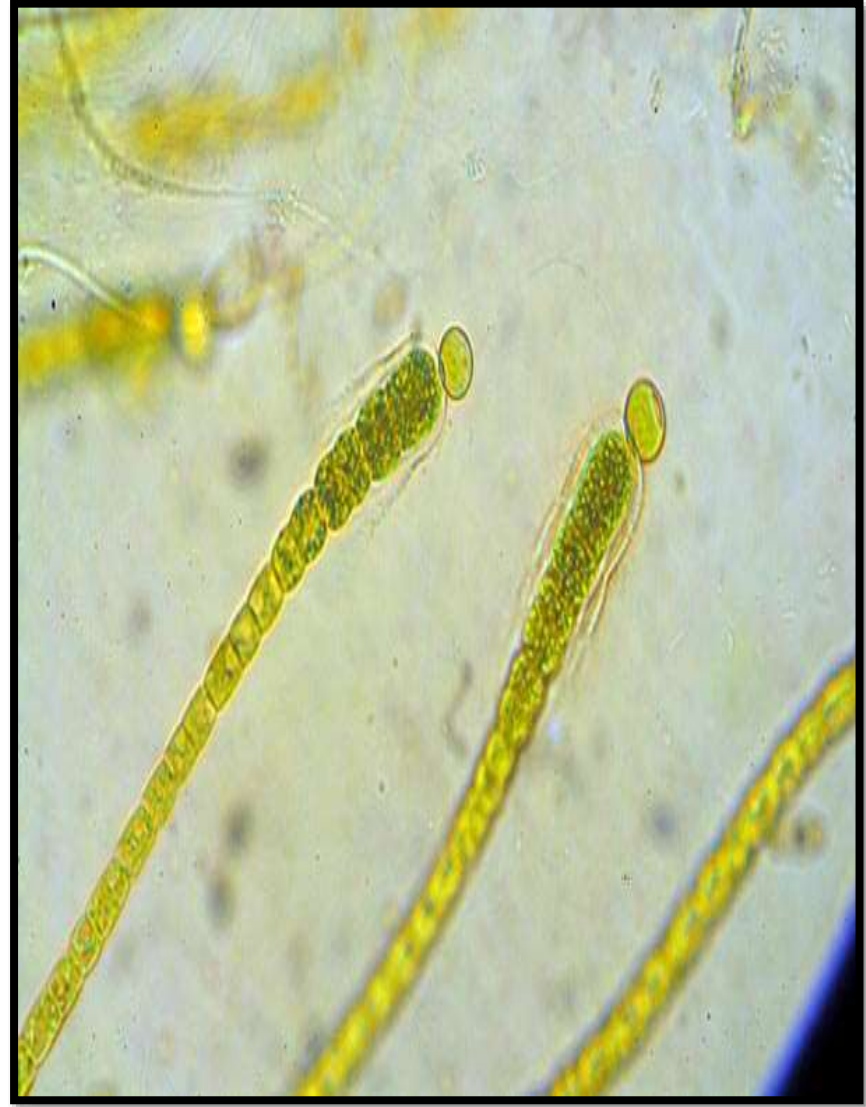
9- *Gloeotrichia*





19-Rivularia

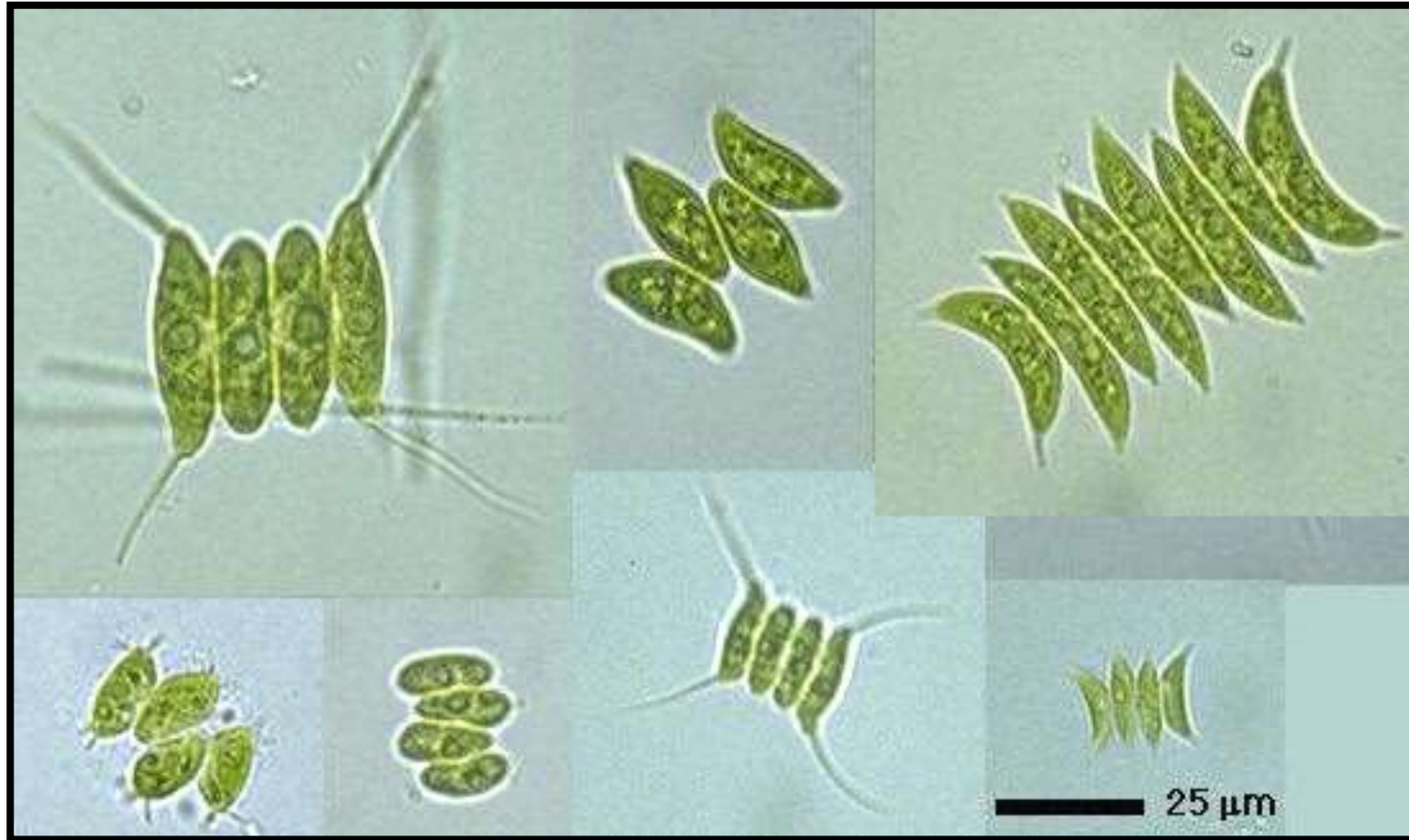


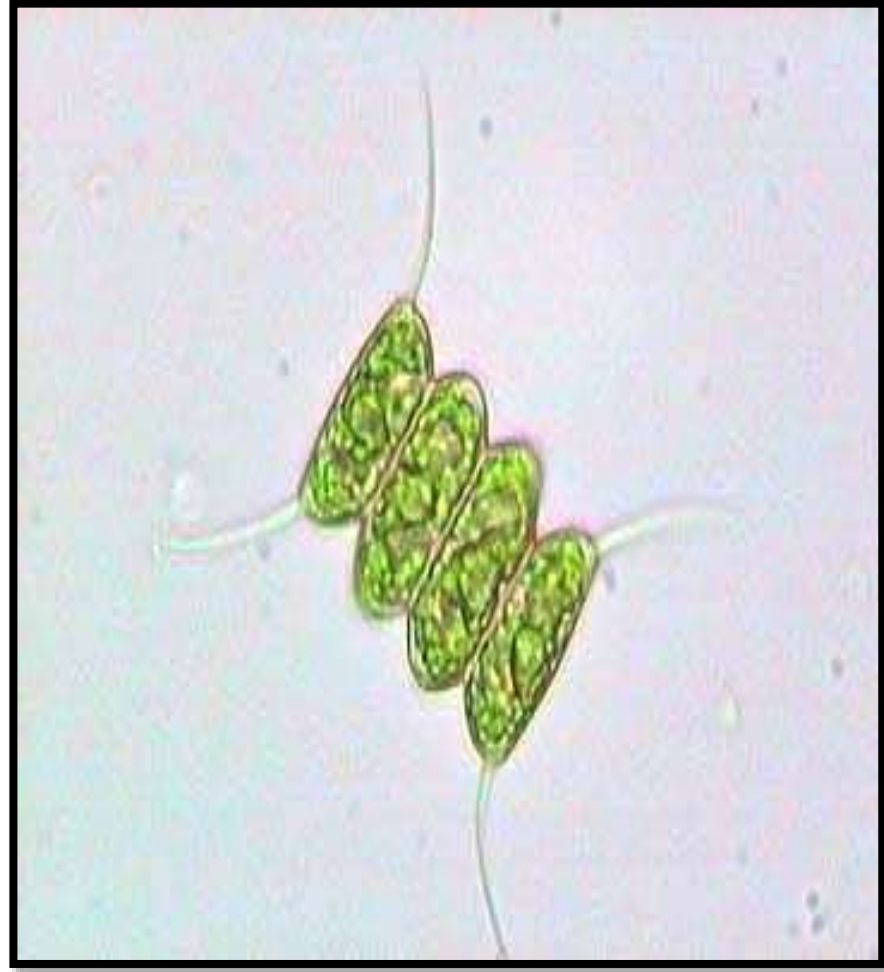
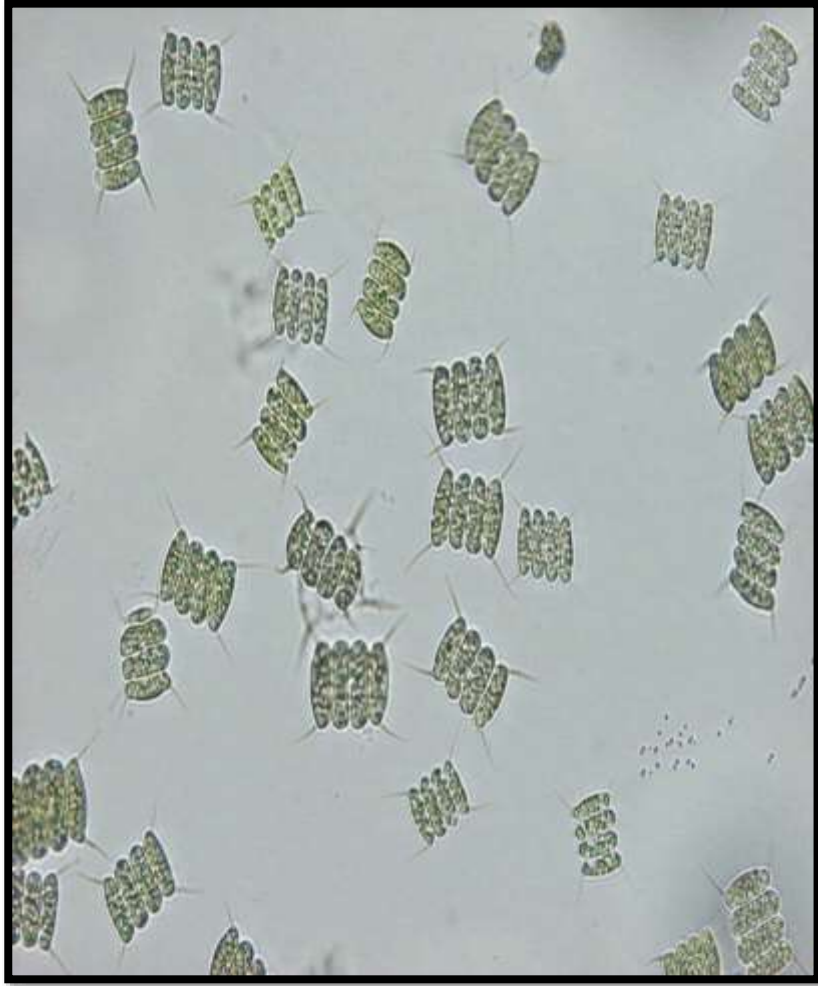


Chlorophyta الطحالب الخضراء -2

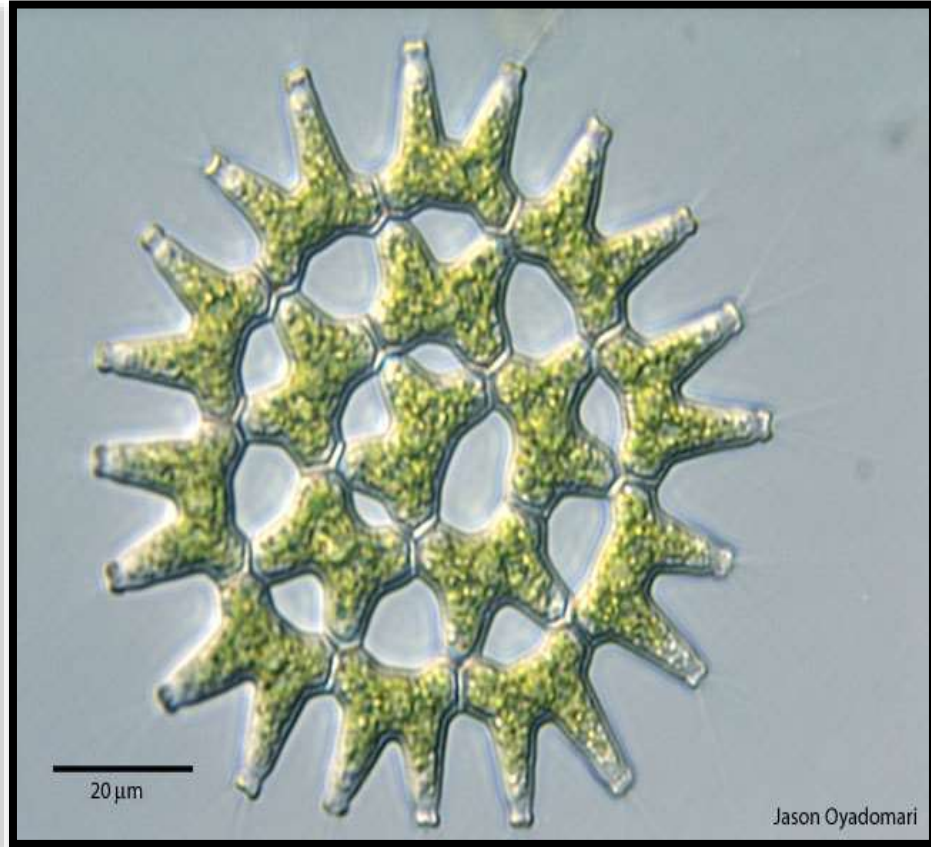
- **Division: Chlorophyta**
- **Class: Chlorophycophyceae**
- **Order: Chlorococcales**
- **Family Scenedesmaceae**
- **Genera:**
 - *Scenedesmus*
 - *Hydrodictyon*
 - *Pediastrum*

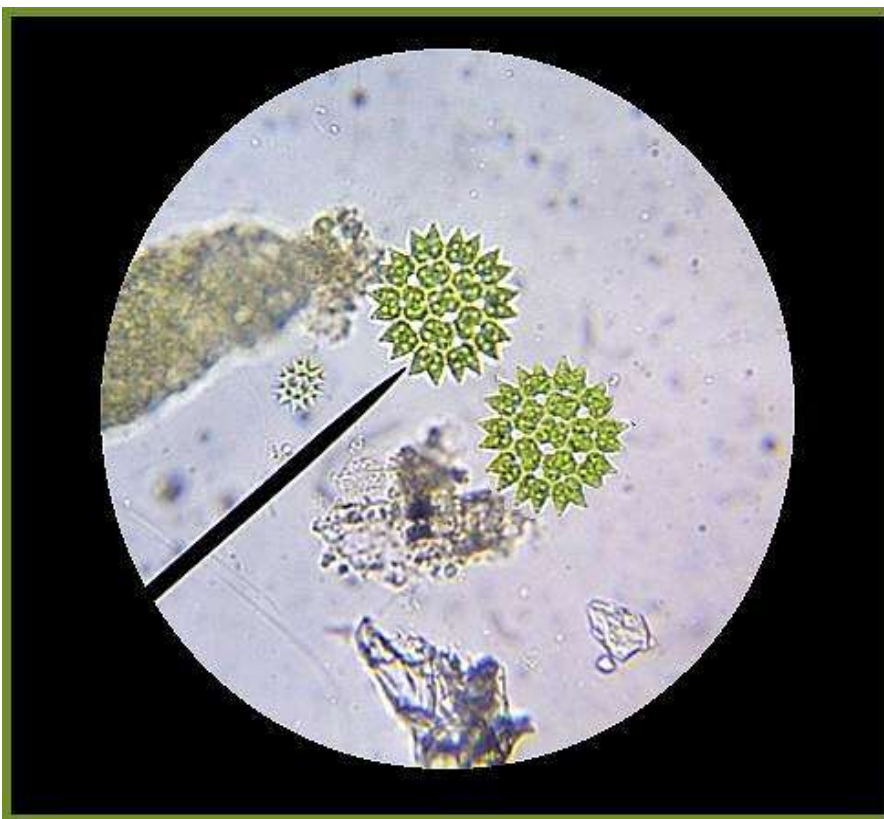
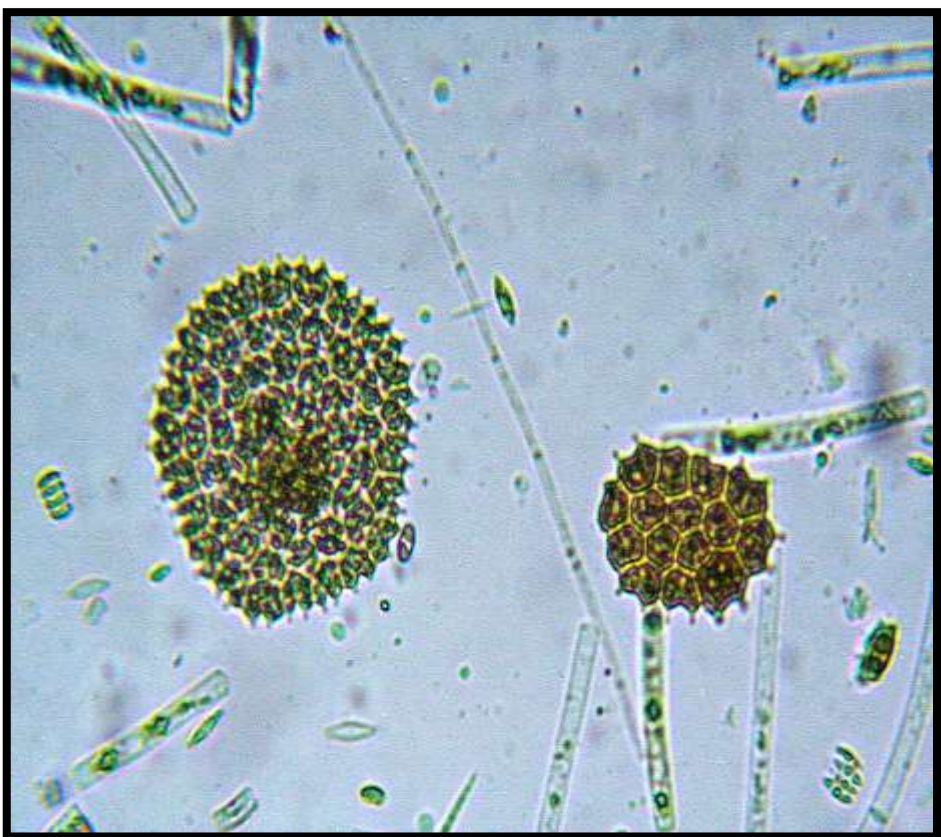
14- *Scenedesmus* ★



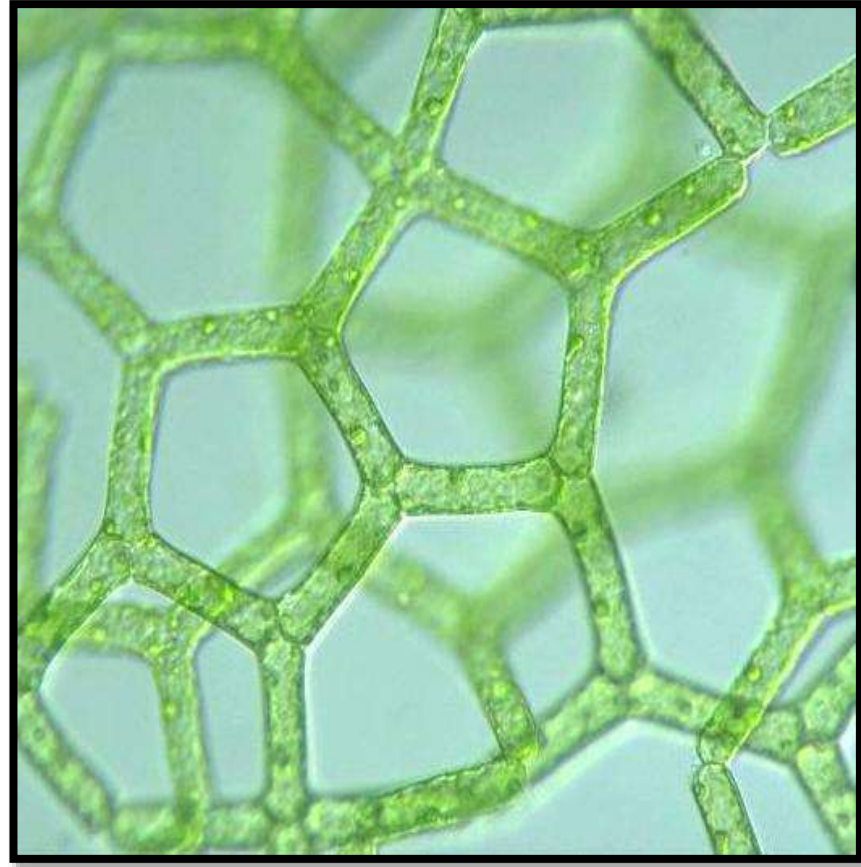


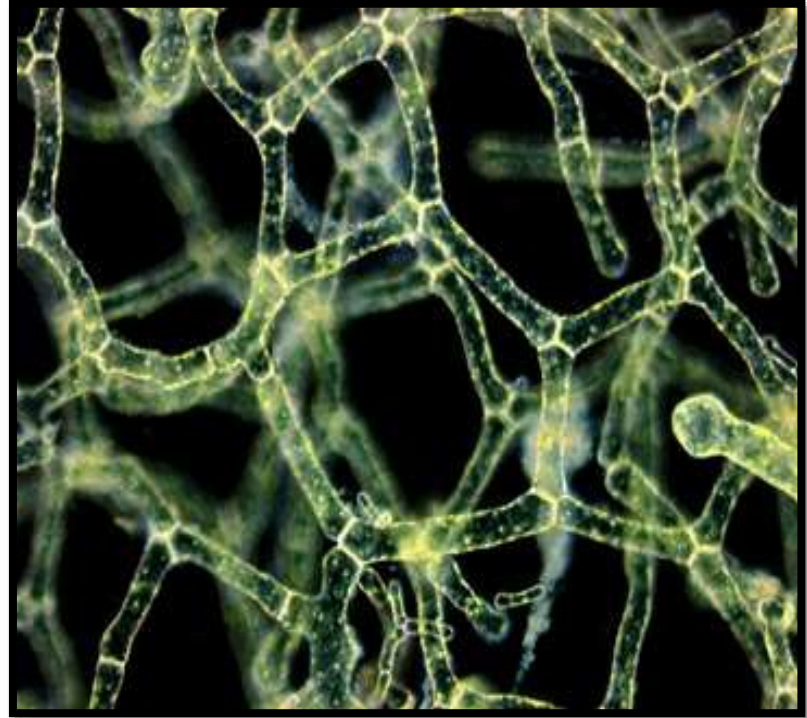
15- *Pediastrum*



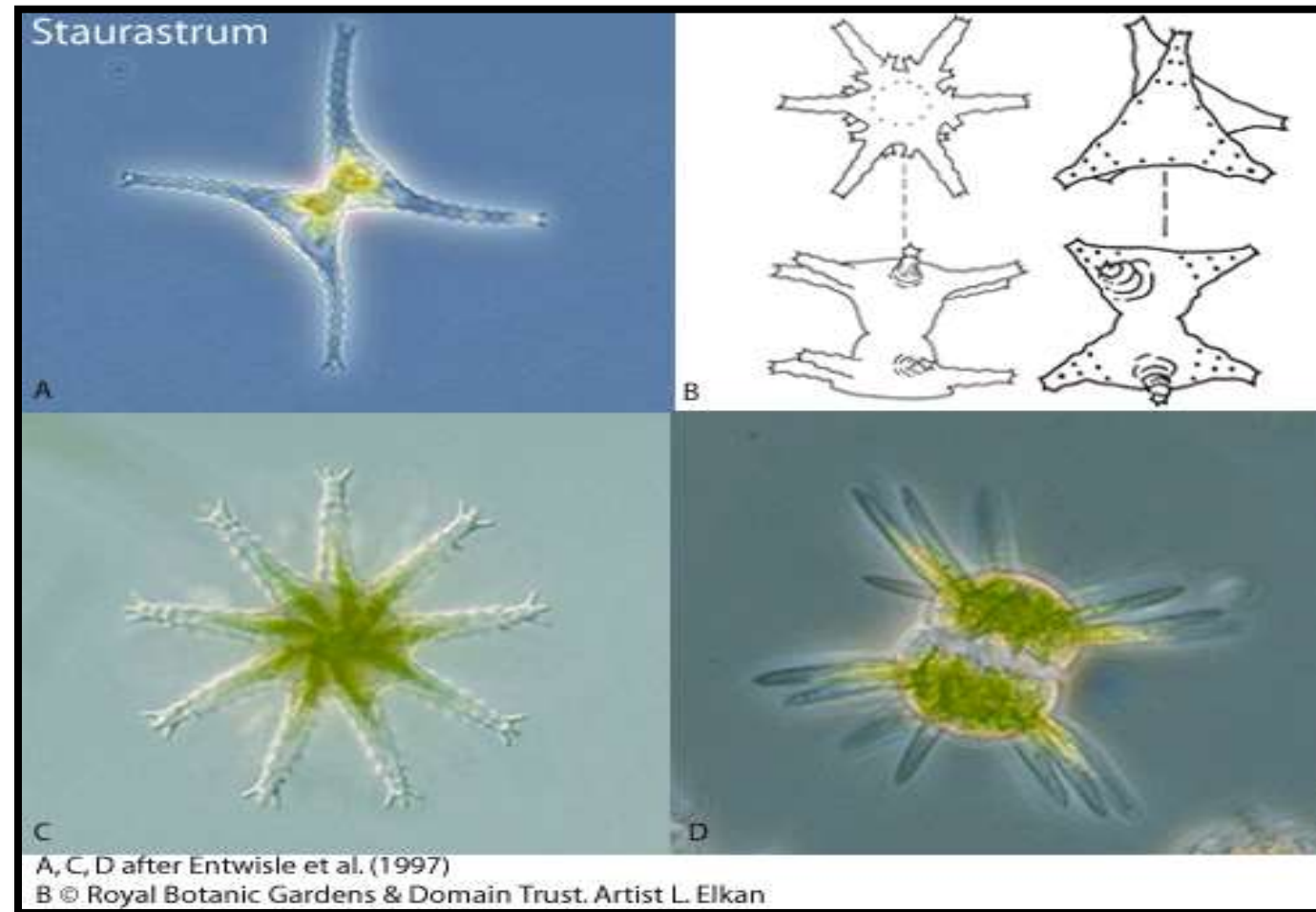


16- *Hydrodictyon*





17- *Staurastrum*

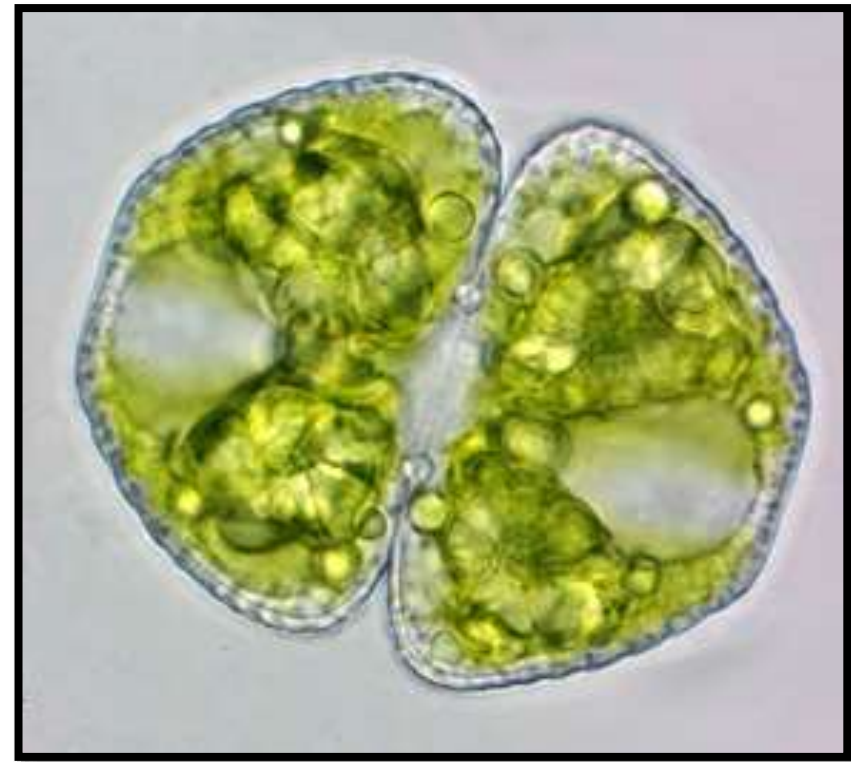
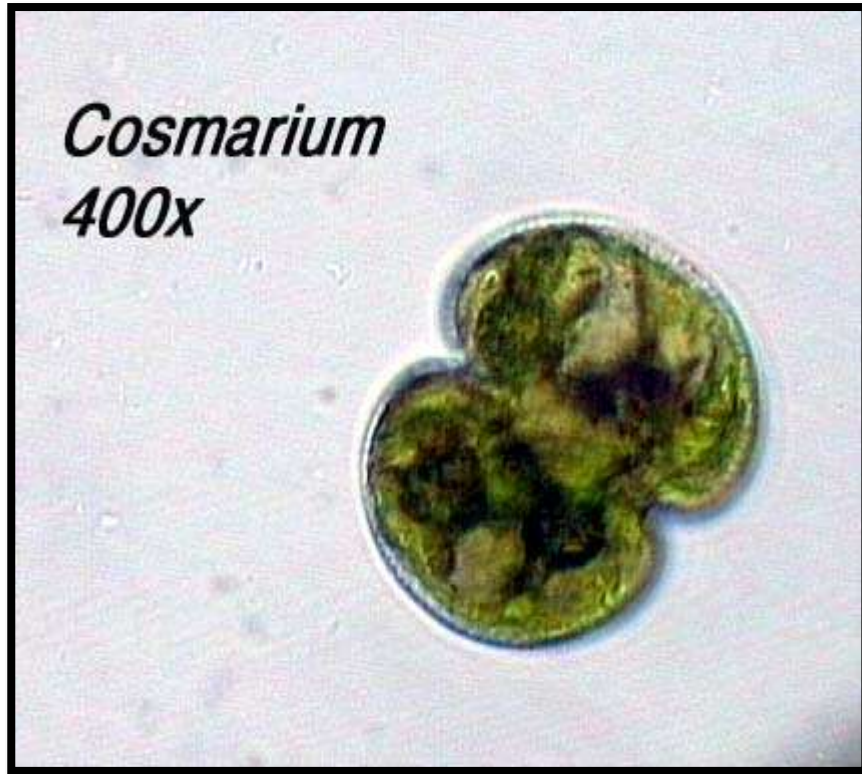




Chlorophyta الطحالب الخضراء -2

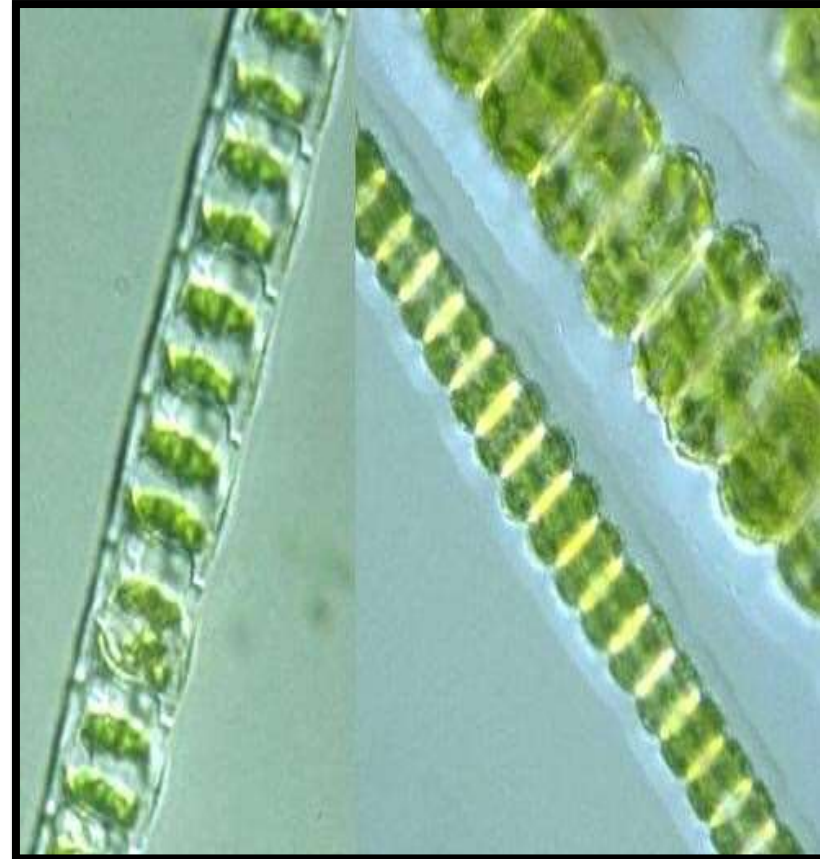
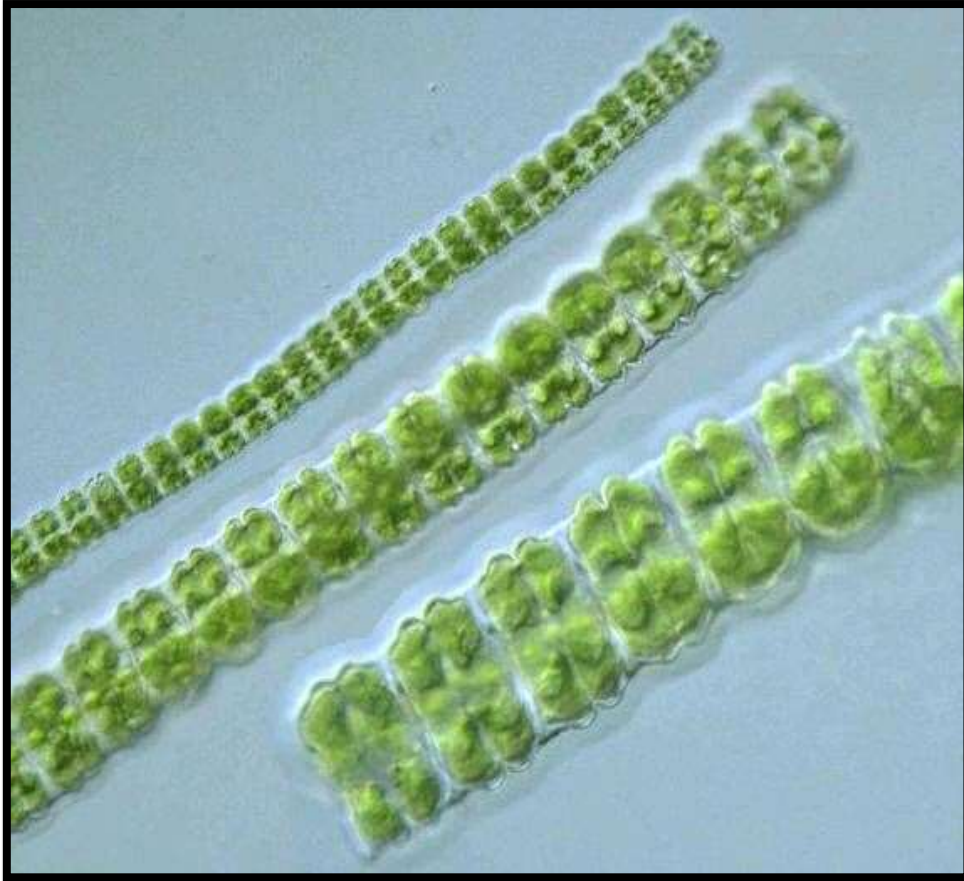
- **Division: Chlorophyta**
- **Class: Chlorophycophyceae**
- **Order: Conjugales**
- **Family Desmidiaceae**
- **Genera:**
 - *Cosmarium*
 - *Closterium*
 - *Desmidium*

8- *Cosmarium*

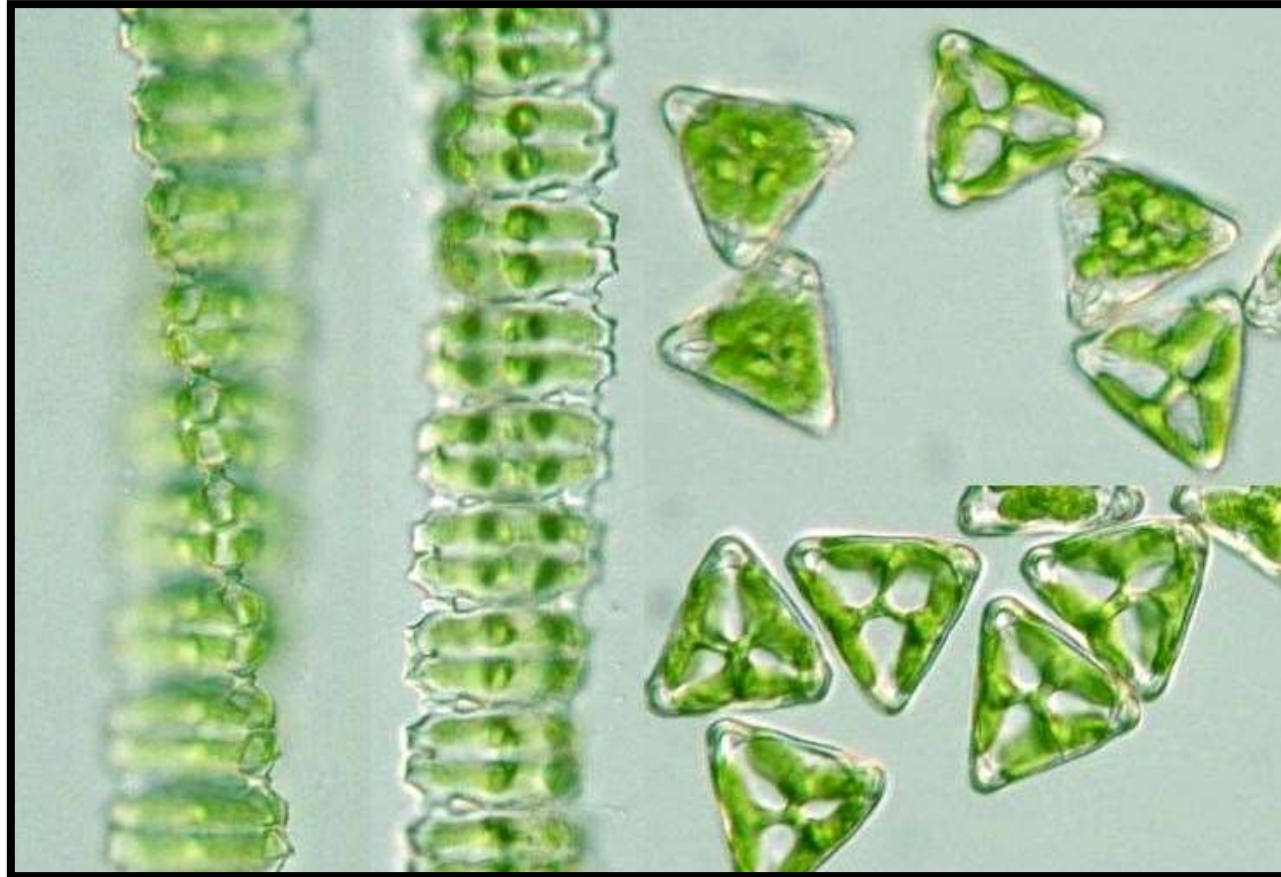




10- *Desmidium*



Desmidium



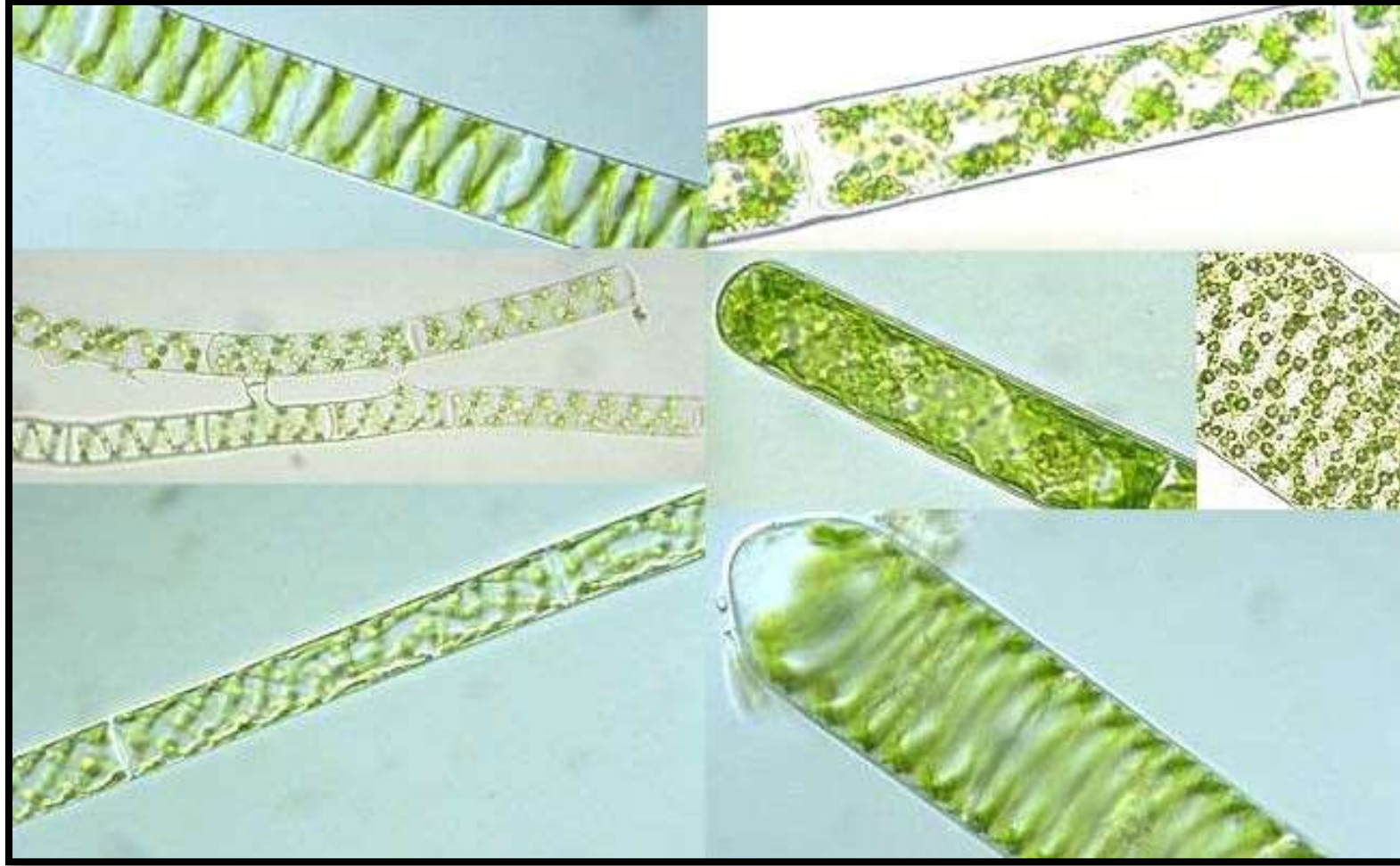
6- *Closterium*

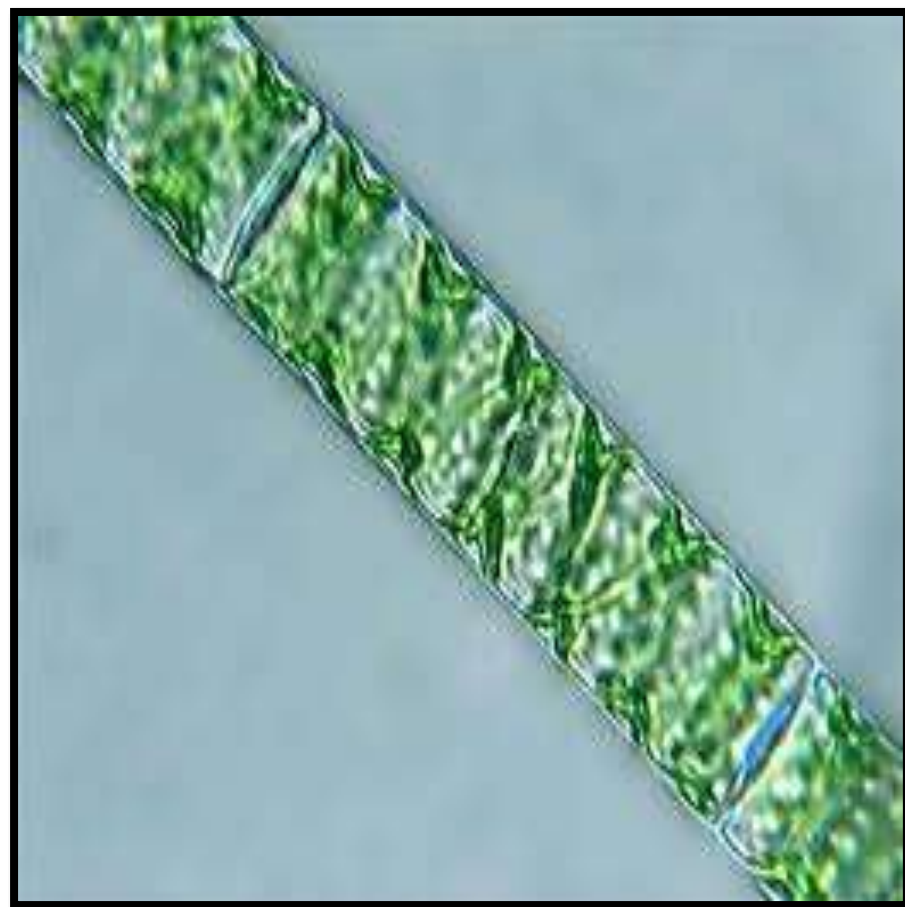
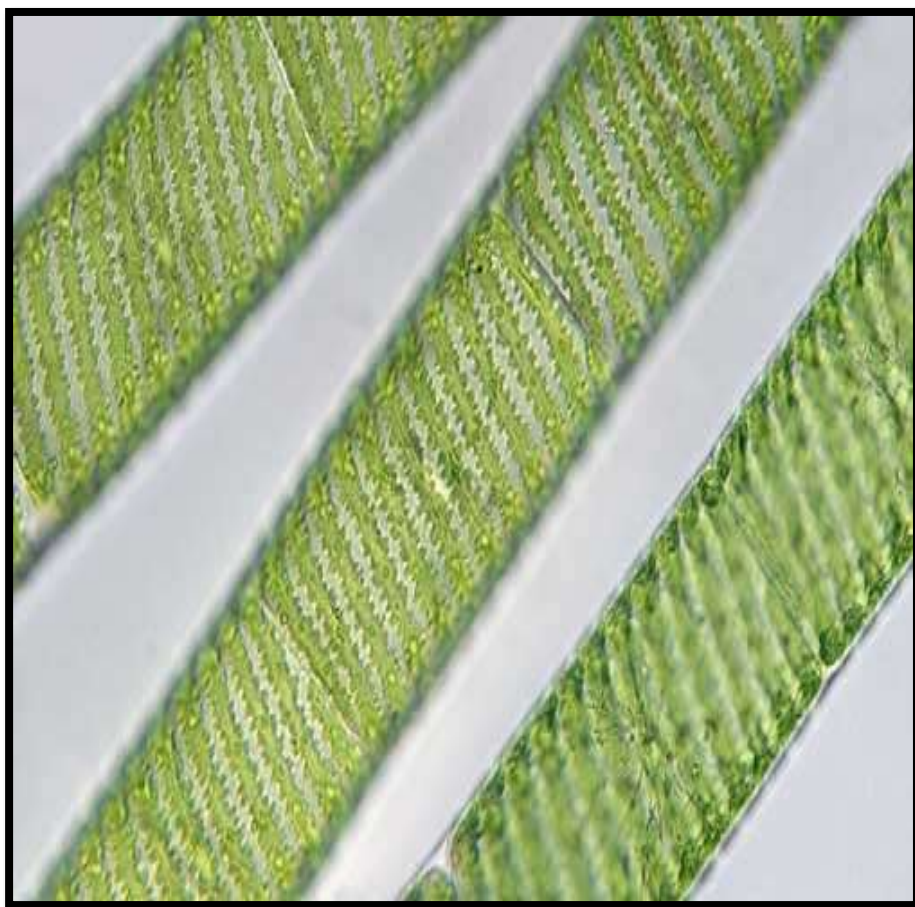


Chlorophyta الطحالب الخضراء -2

- **Division: Chlorophyta**
- **Class: Chlorophycophyceae**
- **Order: Conjugales**
- **Family Zygnemaceae**
- **Genera:**
 - *Spirogyra*

★ 25- Spirogyra

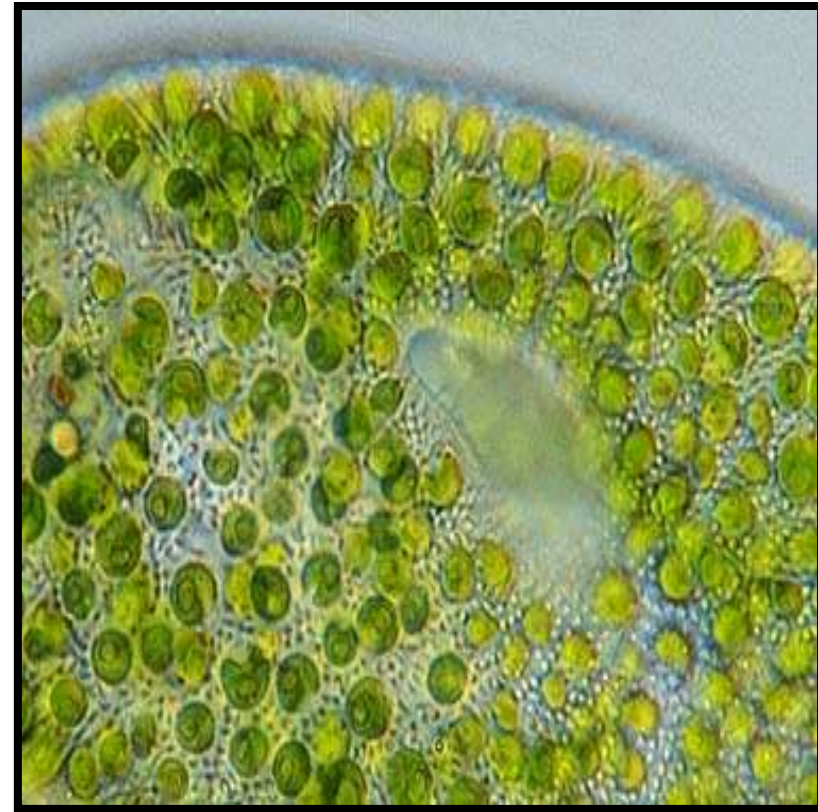
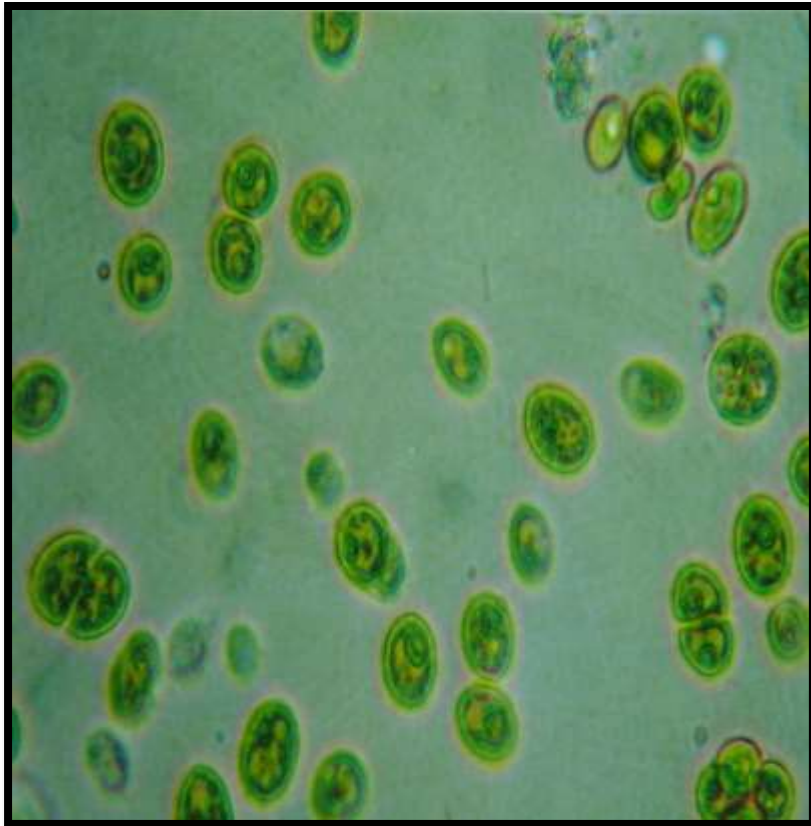


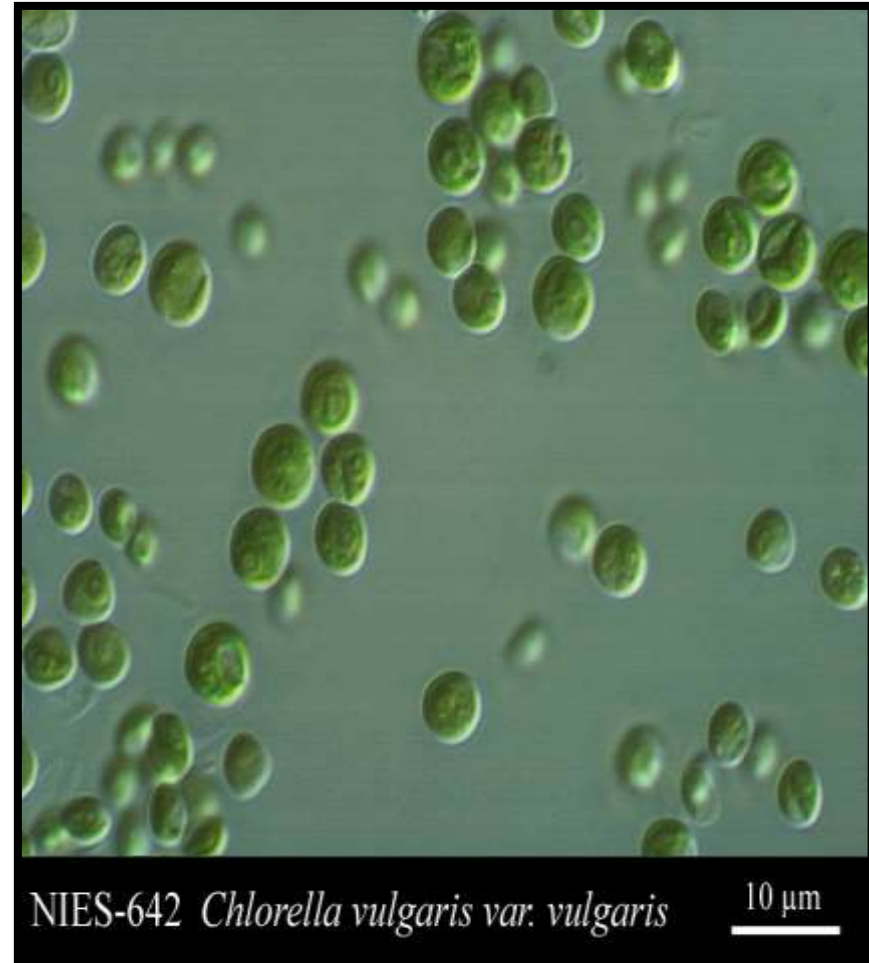
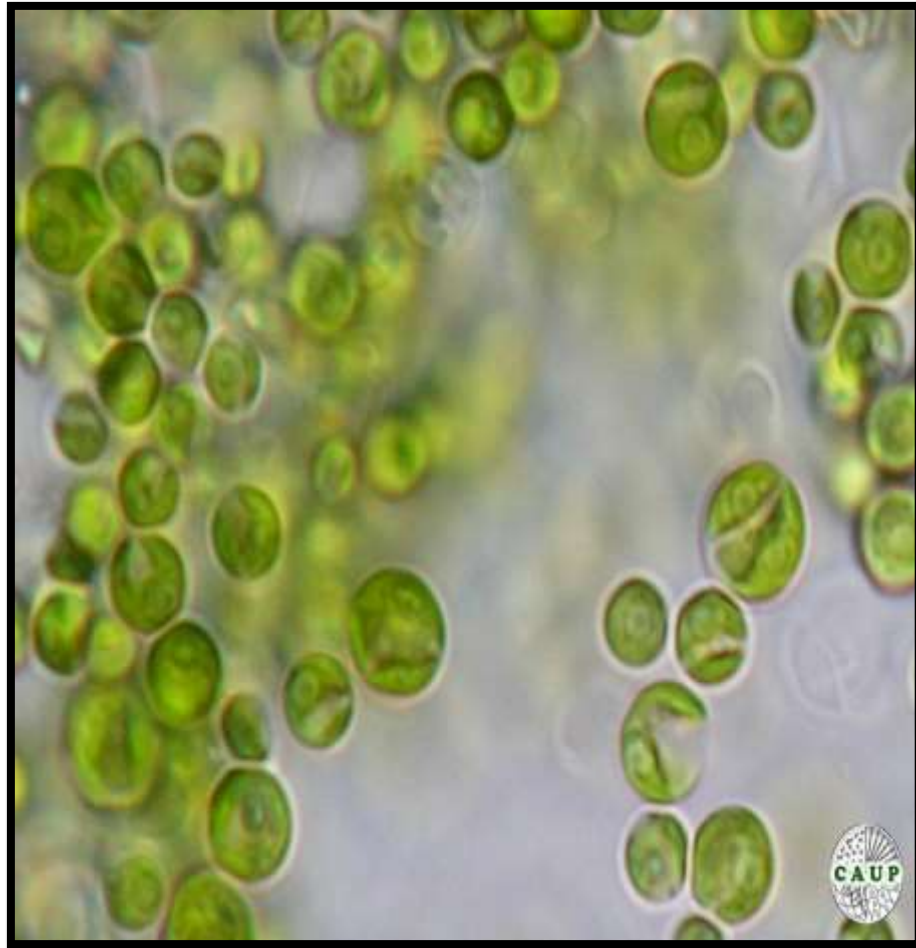


Chlorophyta الطحالب الخضراء -2

- **Division: Chlorophyta**
- **Class: Chlorophycophyceae**
- **Order: Chlorococcales**
- **Family Chlorellaceae**
- **Genera:**
 - *Chlorella*

24- Chlorella★





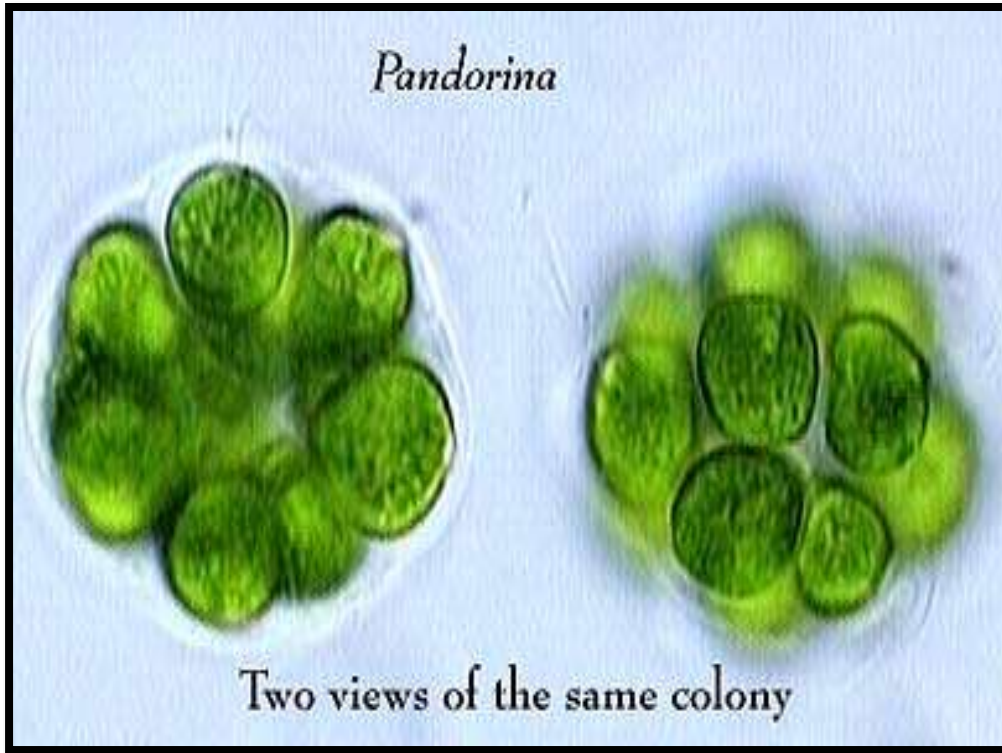
Chlorophyta الطحالب الخضراء -2

- **Division: Chlorophyta**
- **Class: Chlorophycophyceae**
- **Order: Volvocales**
- **Family Volvocaceae**
- **Genera:**
 - *Pandorina*
 - *Volvox*

21- *Pandorina*



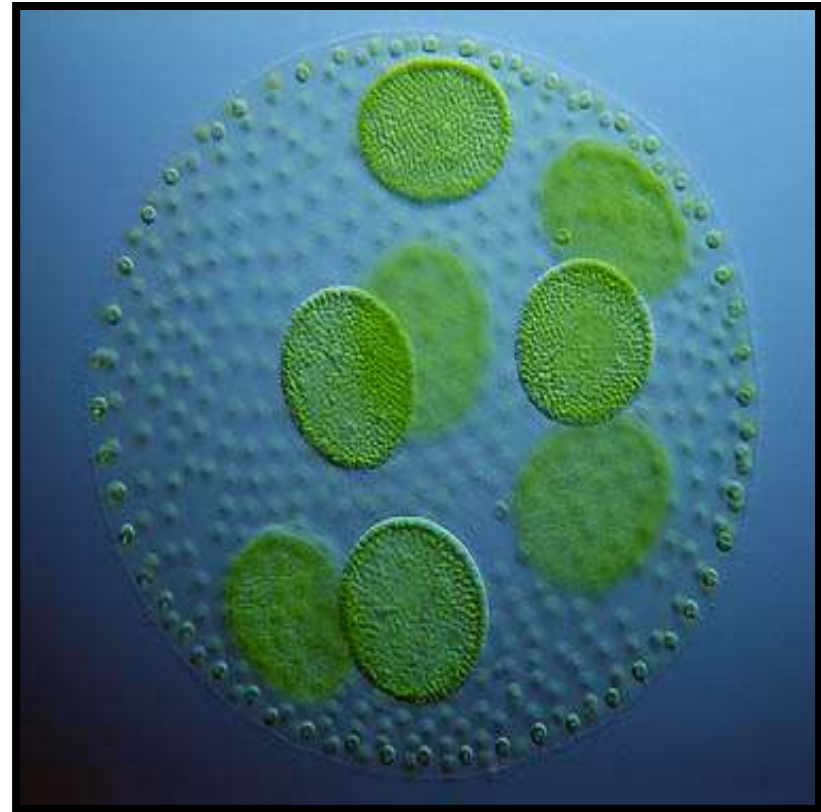
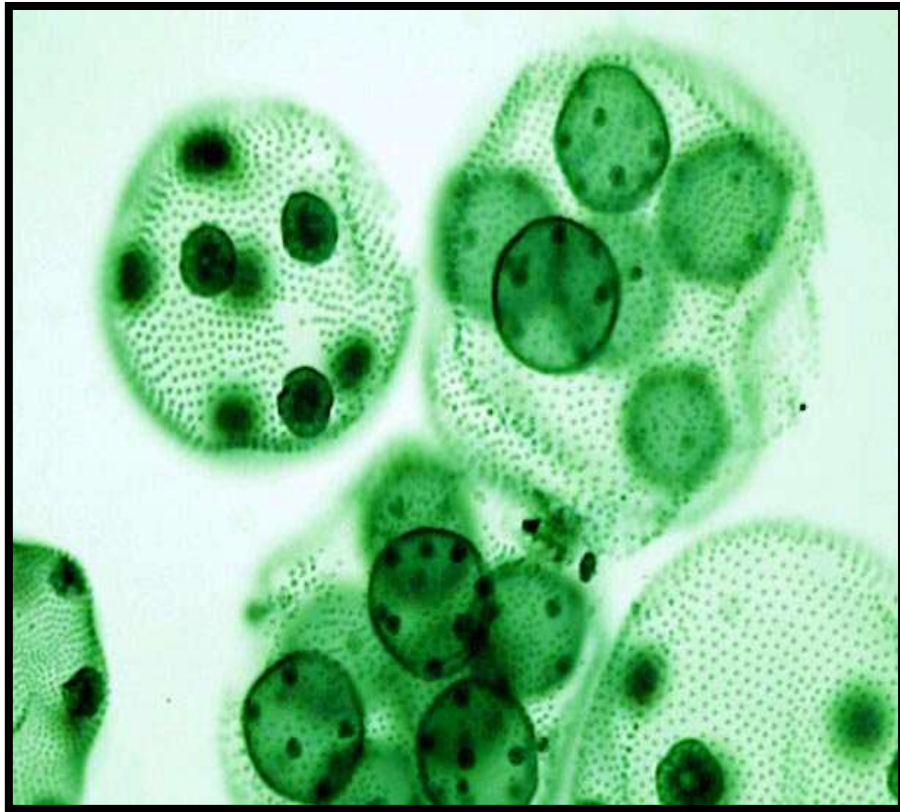
Pandorina

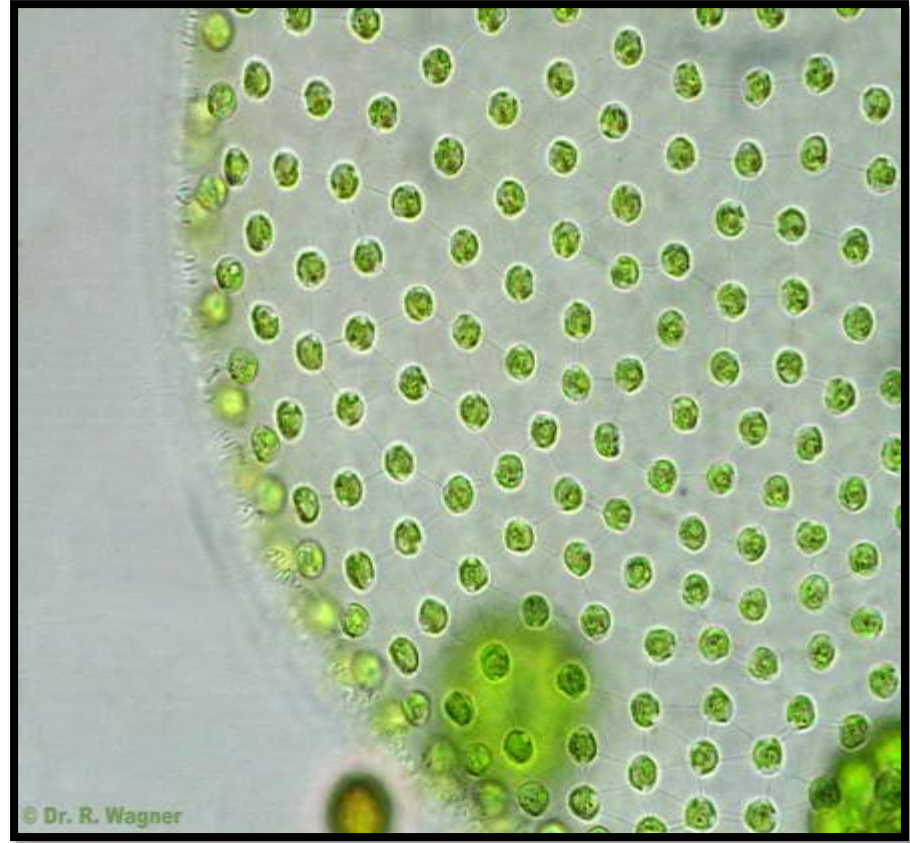


Two views of the same colony



23-Volvox ★

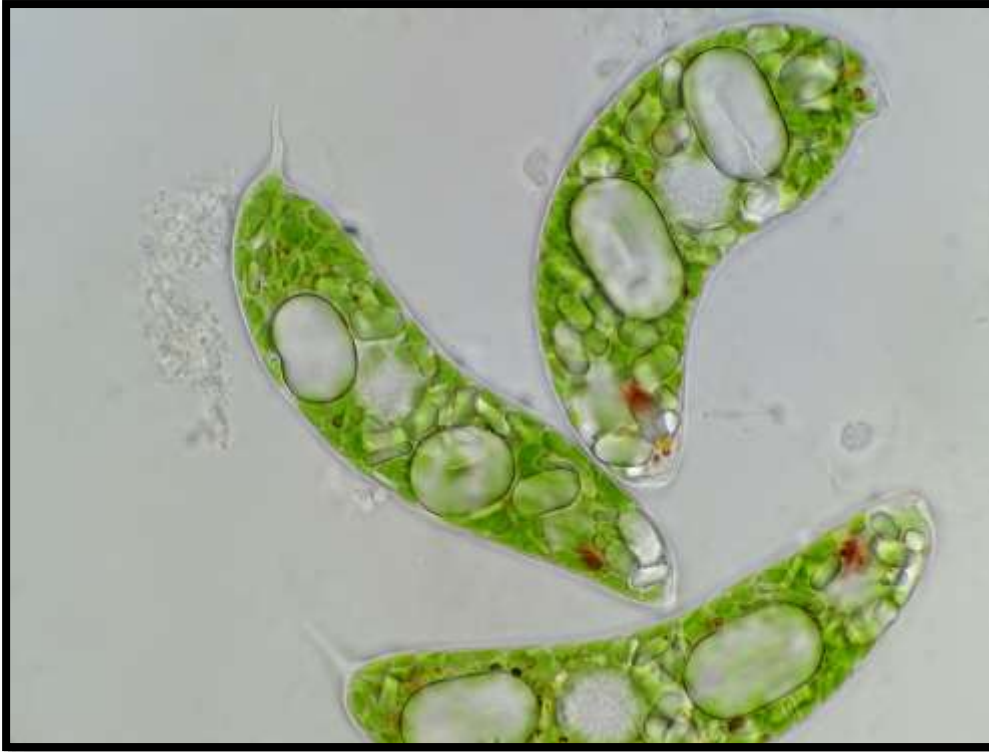


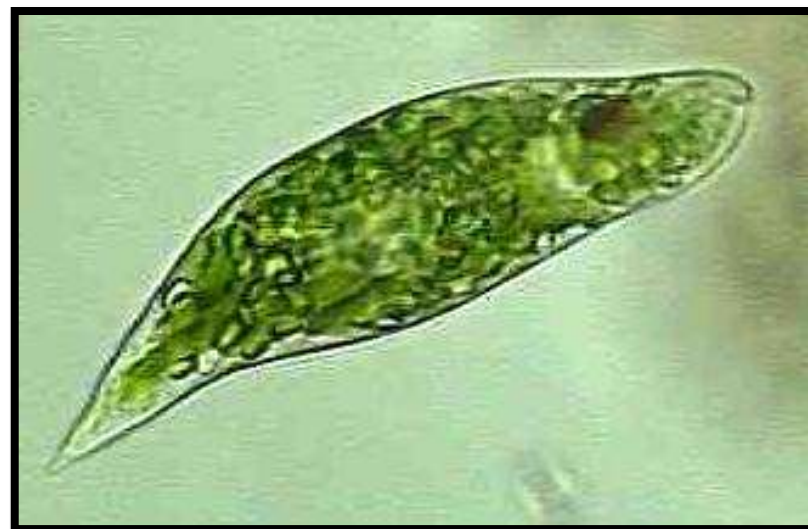


Chlorophytae الطحالب الخضراء -2

- **Division: Euglenophycota**
- **Class: Euglenophycophyceae**
- **Order: Euglenales**
- **Family Euglenaceae**
- **Genera:**
 - *Euglena*

22- *Euglena* ★

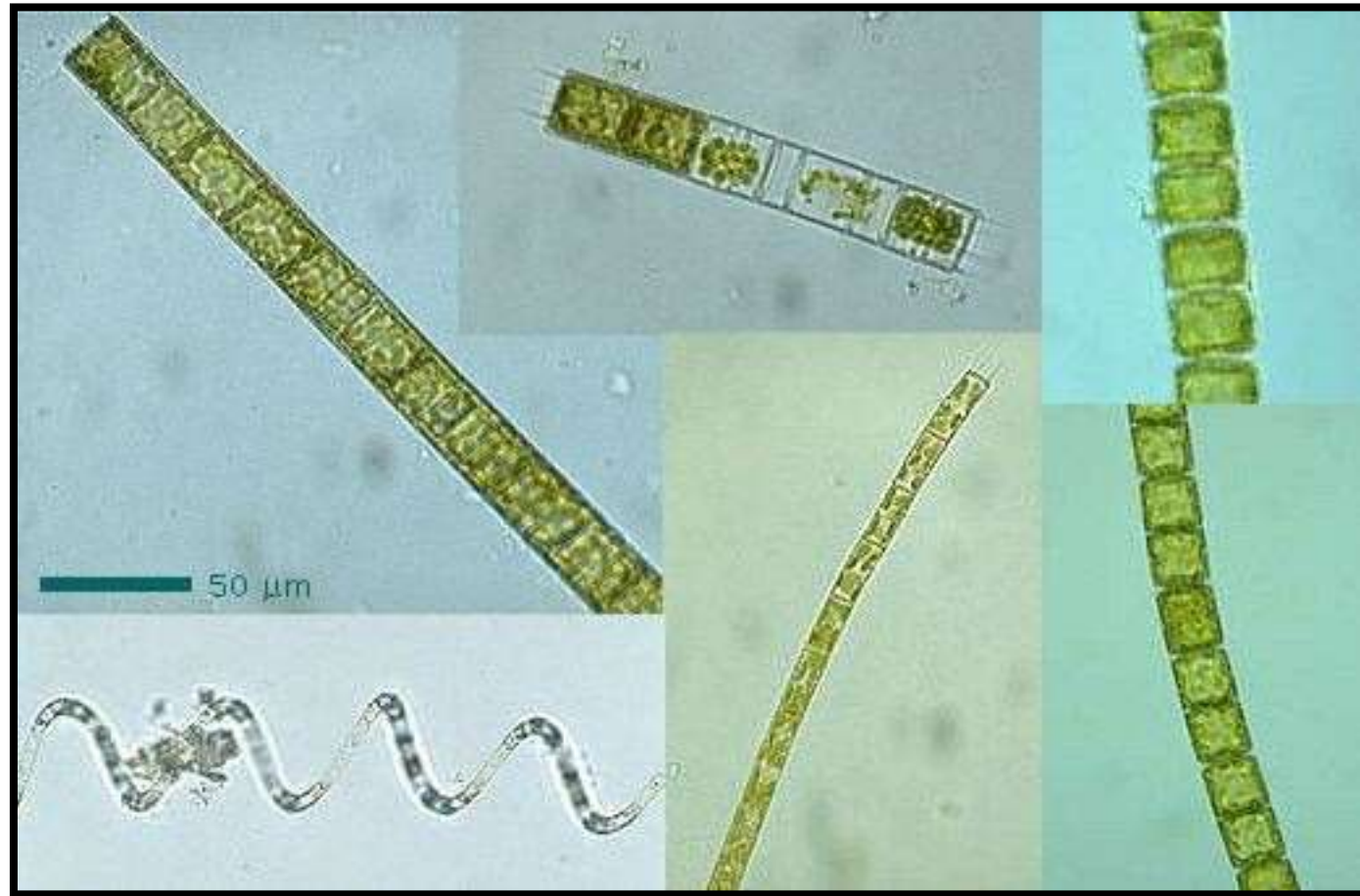


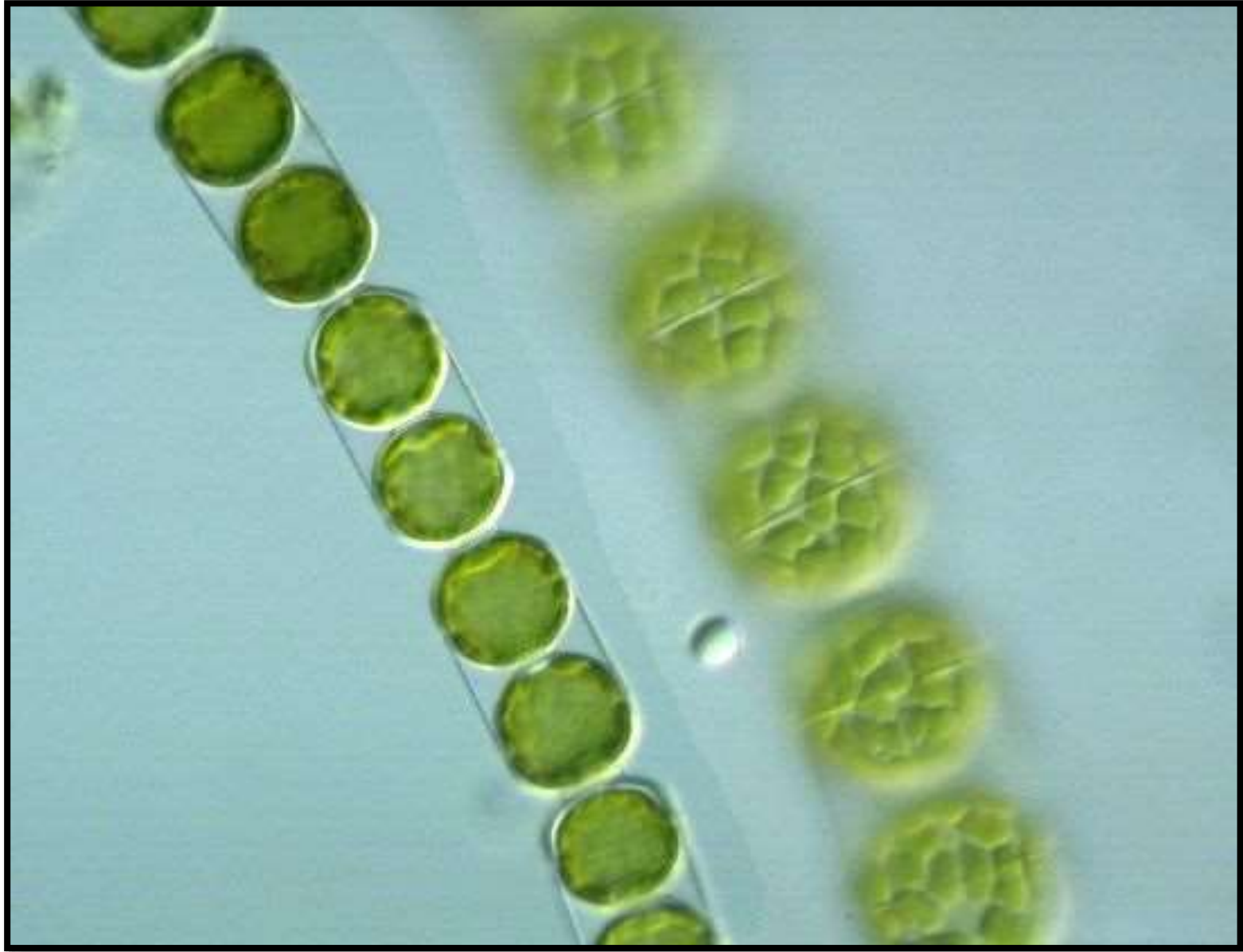


3- الدياتومات (الطحالب الصفراء) Diatoms

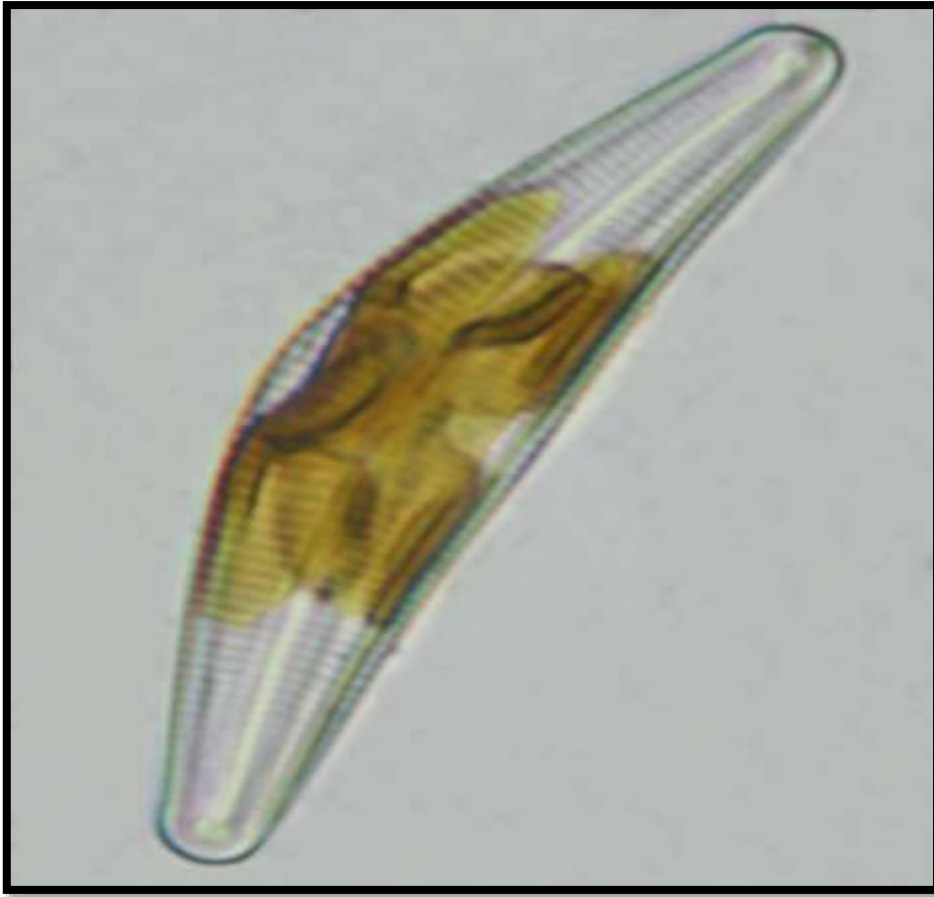
- *Melosera*
- *Cymbella*

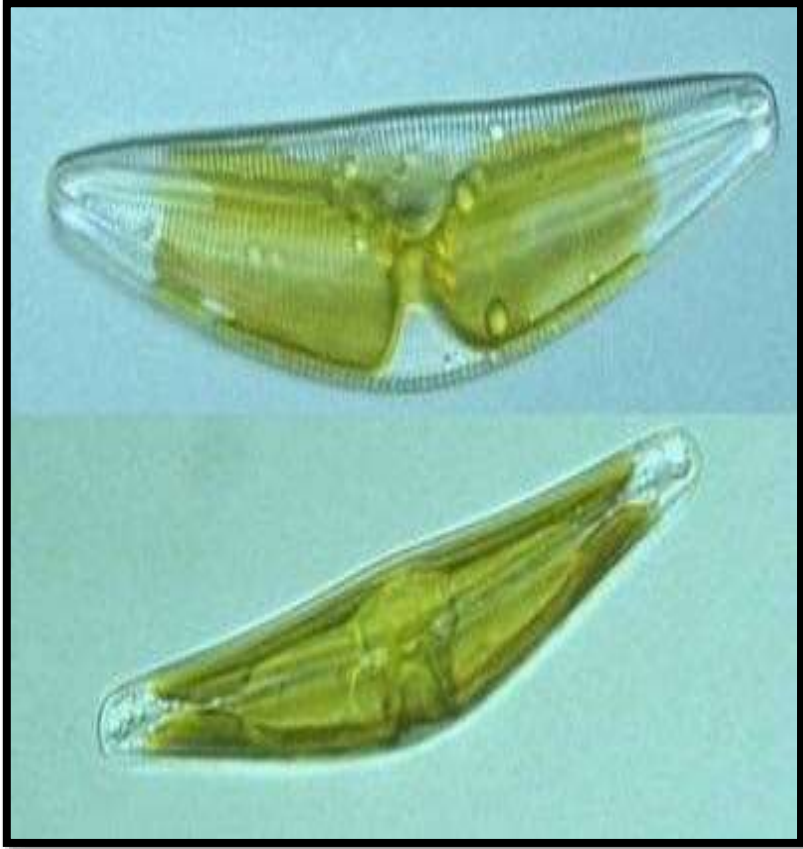
12- *Melosira*



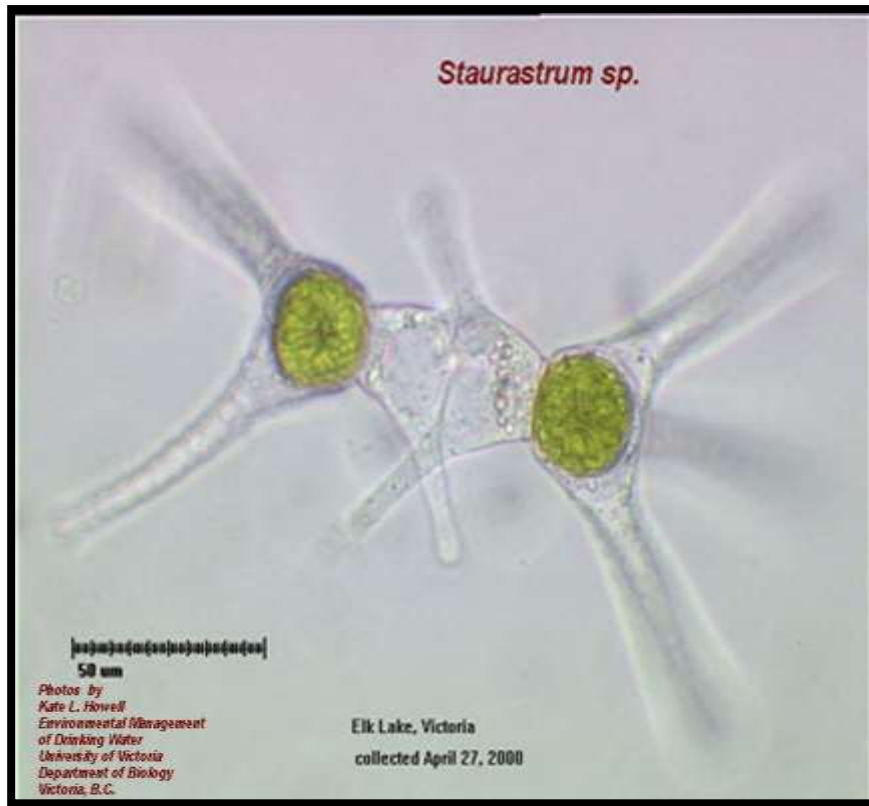


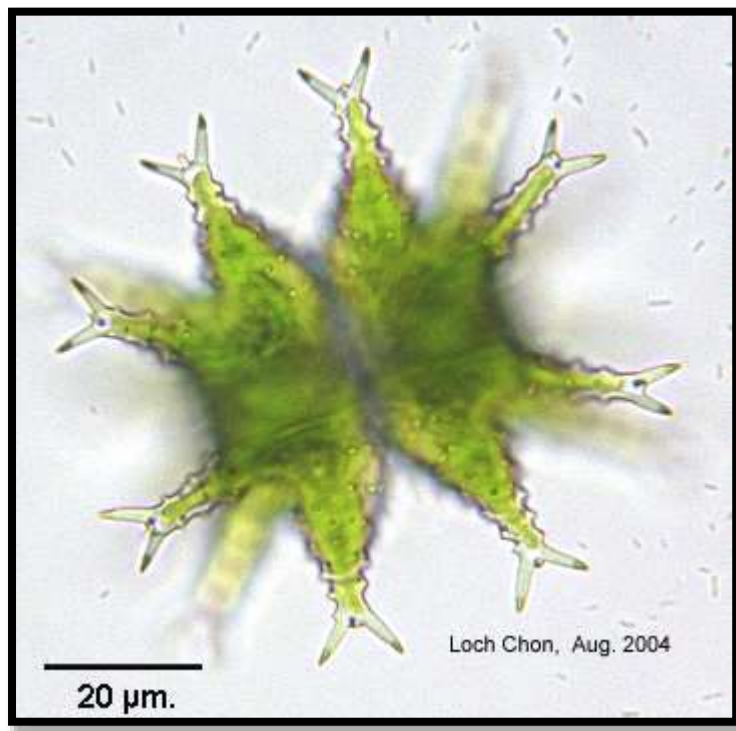
20- Cymbella





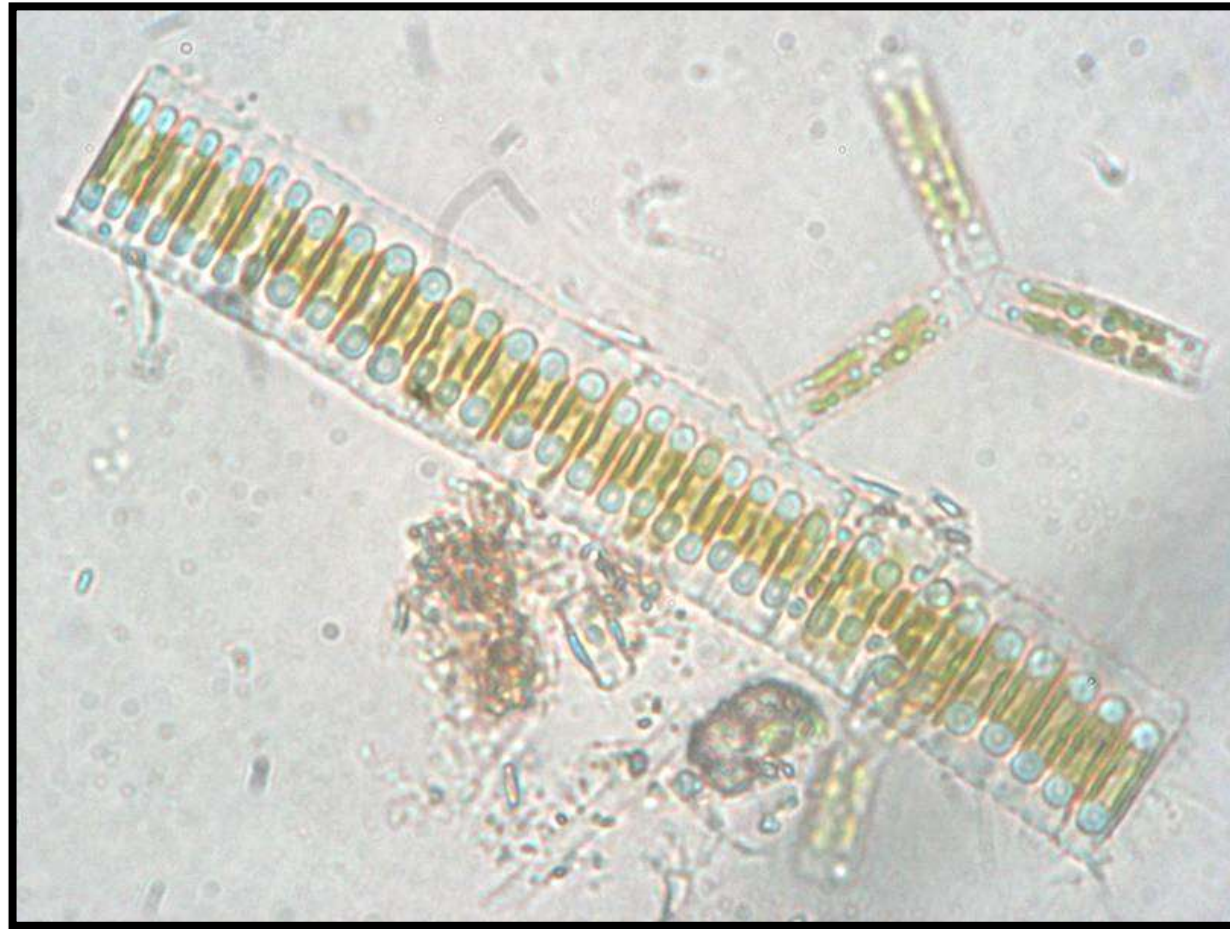
4- *Staurastrum*

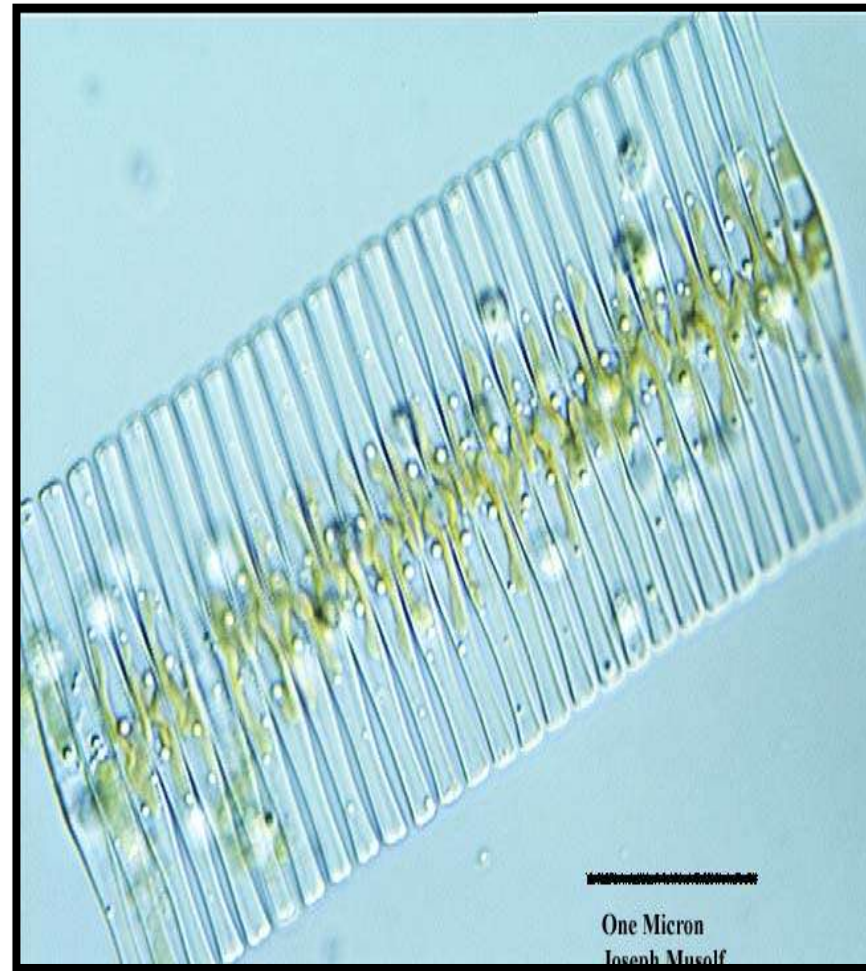
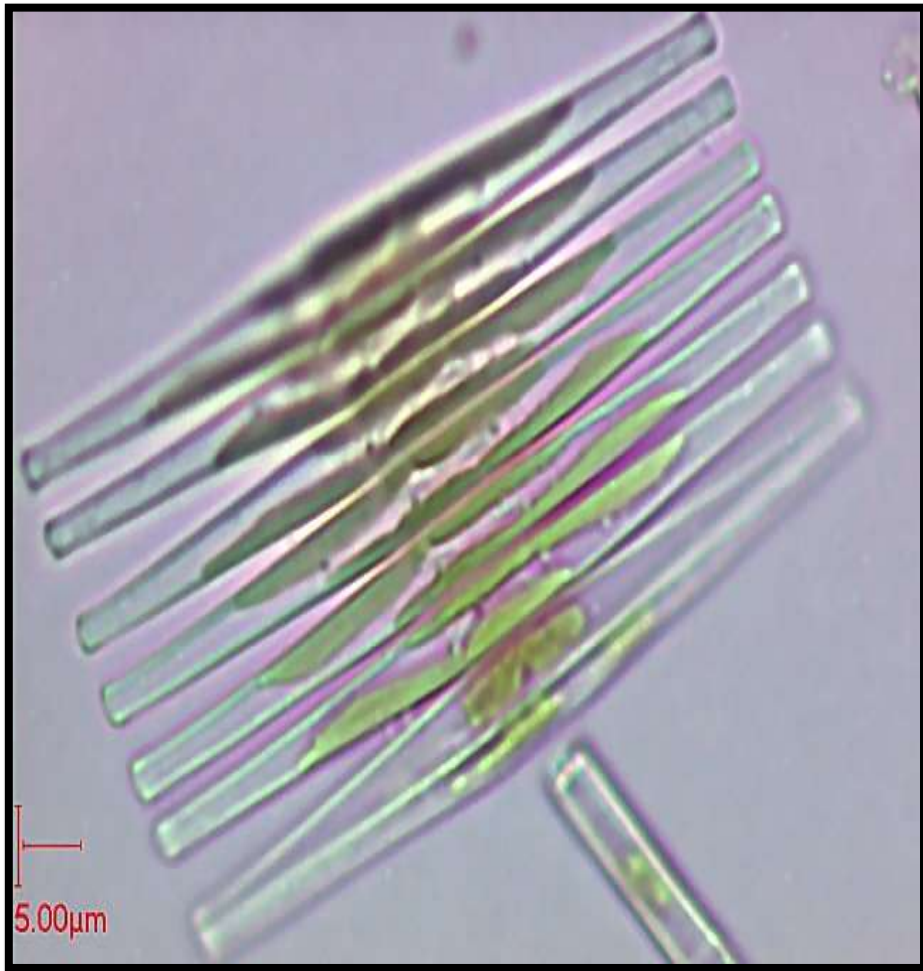




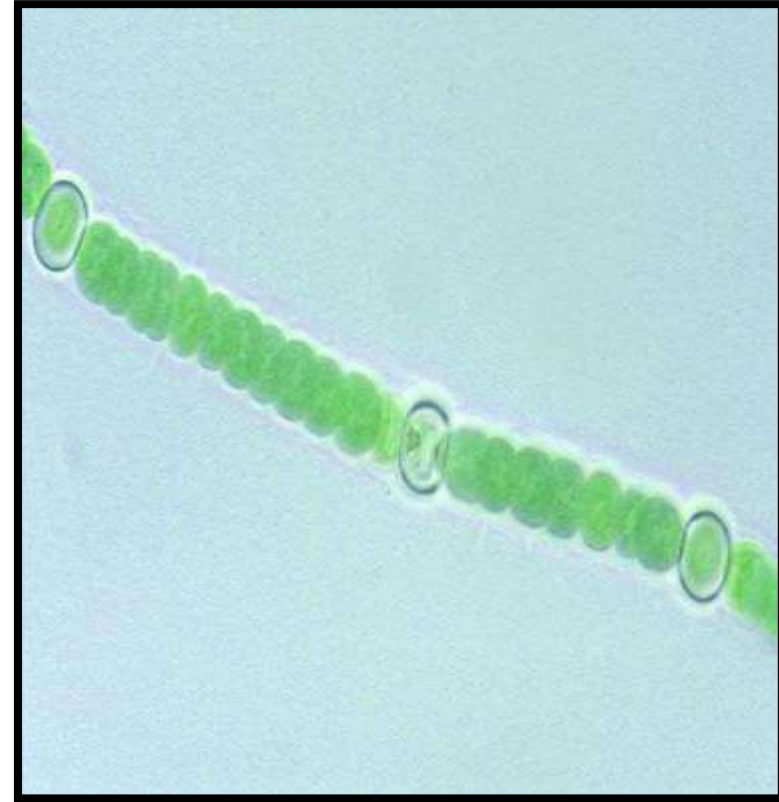
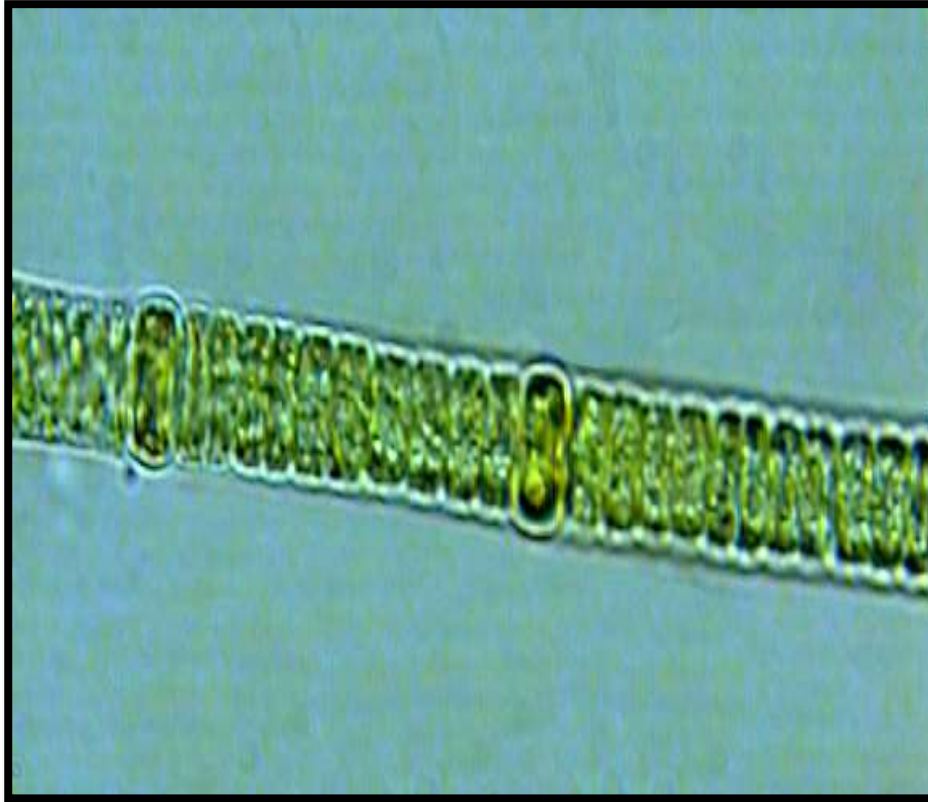


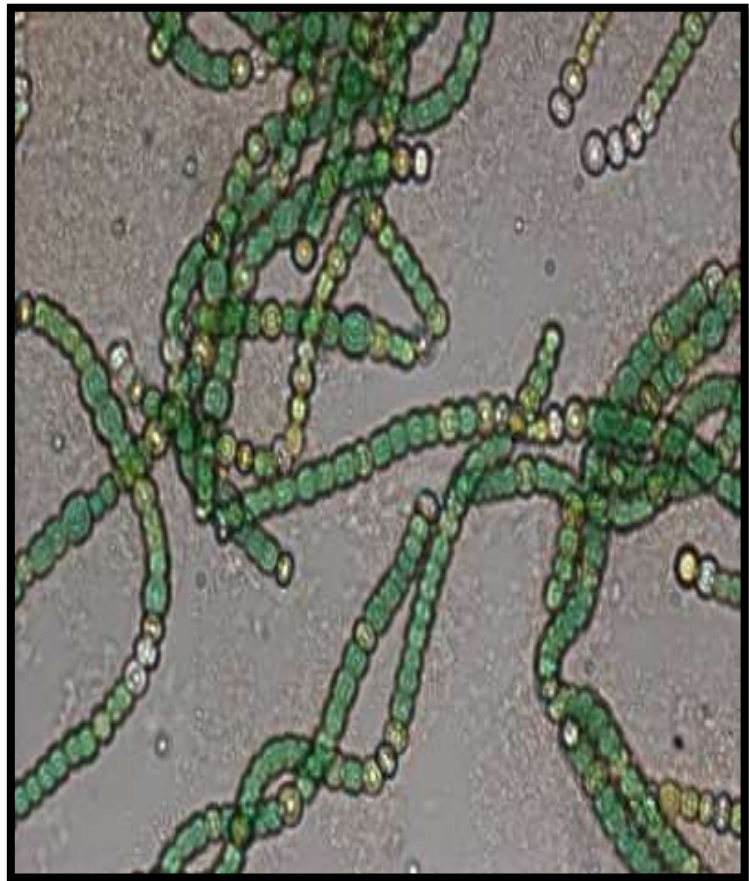
11- *Fragilaria*



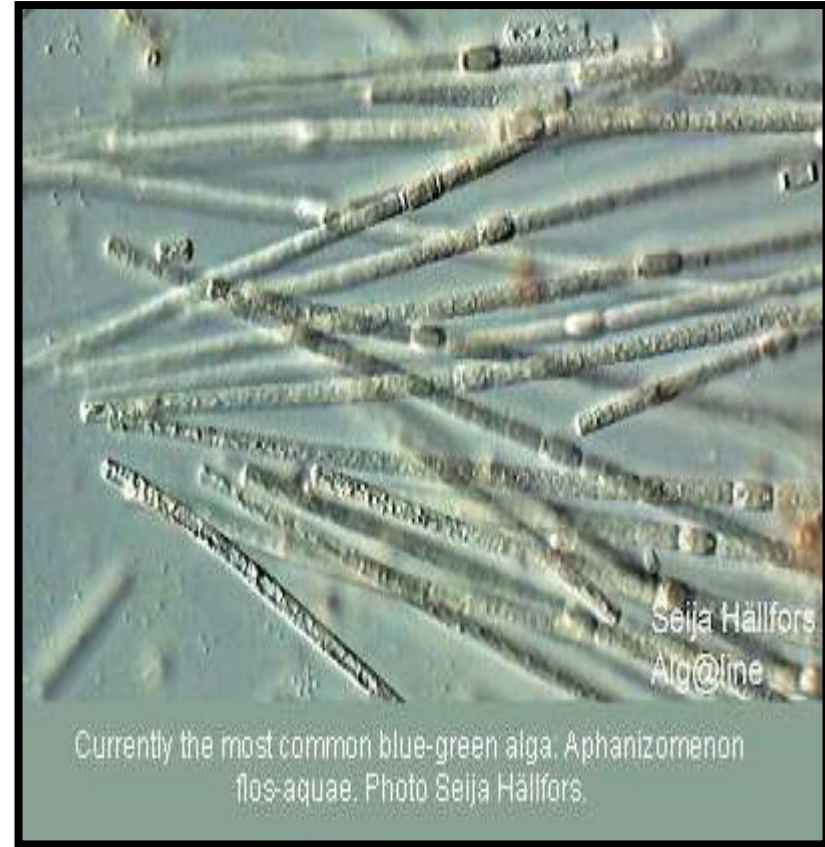
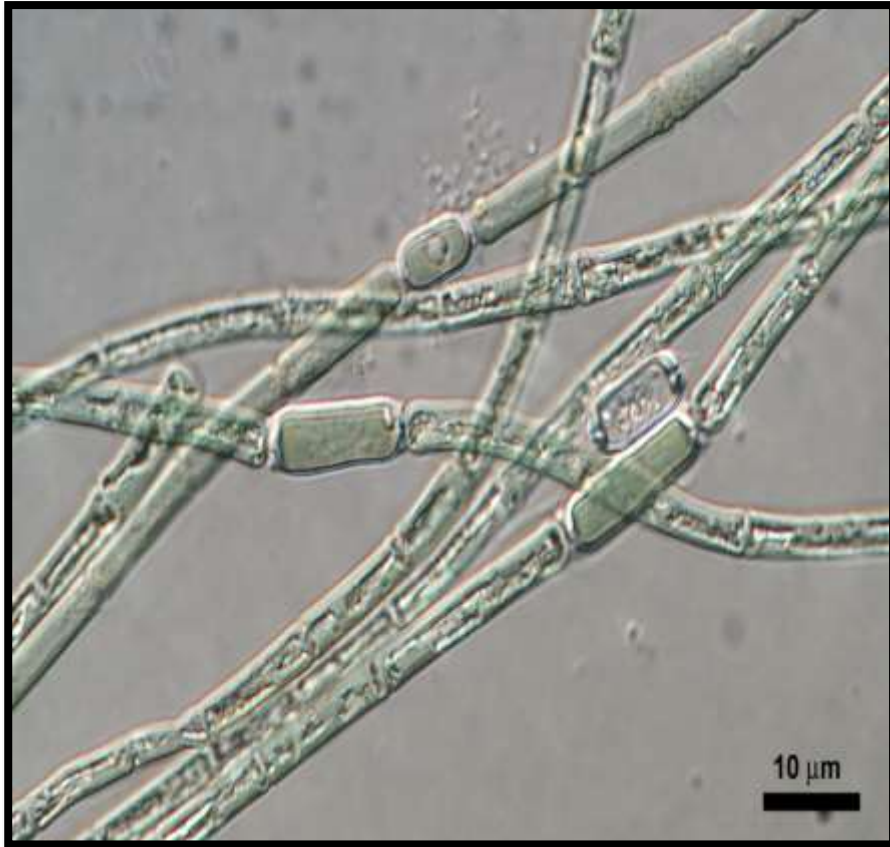


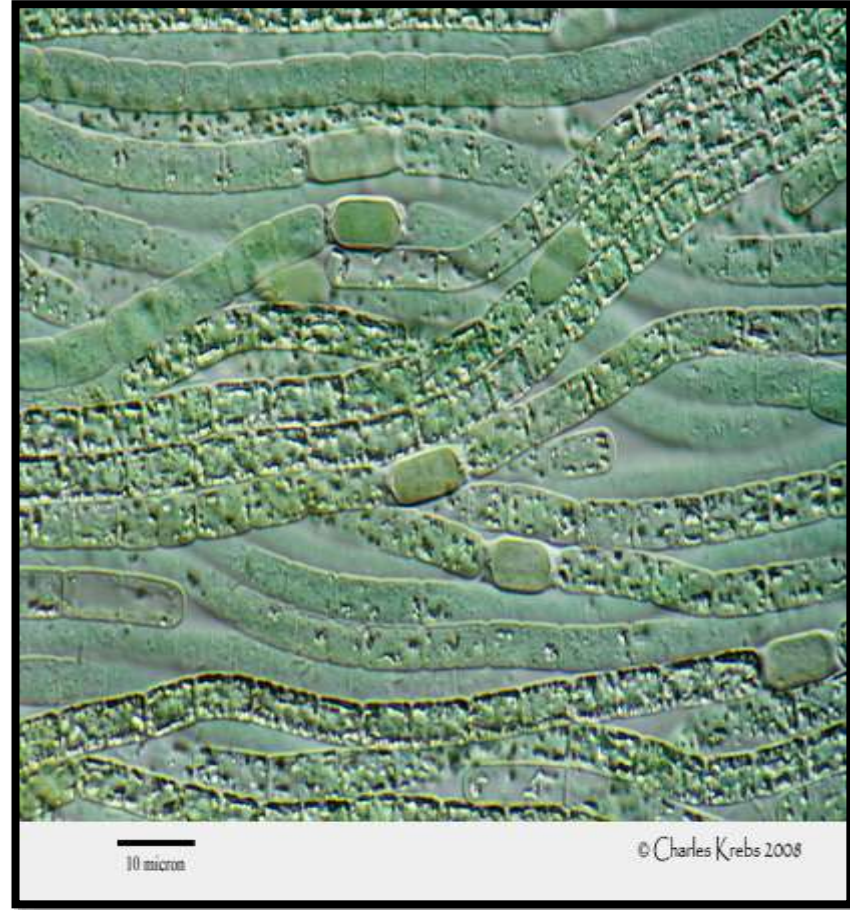
13-Nodularia





18- Aphanizomenon





انتهى الدرس

