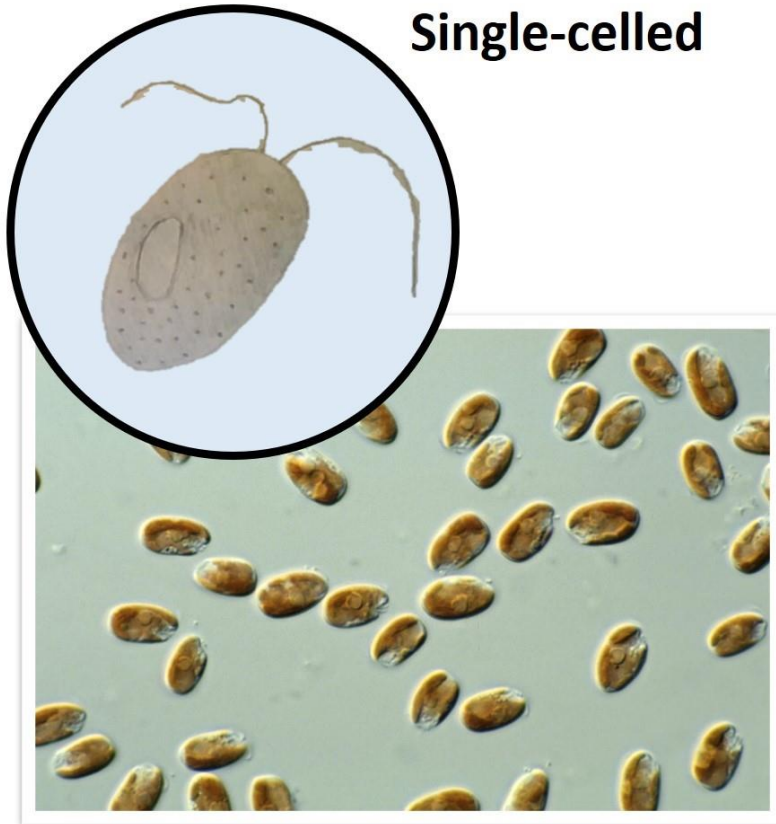


Flagellate

Single-celled



Size	Small (15–30 μm)
Reproduction Rate	Fast (< 1 day)
Photosynthetic Pigments	Chlorophyll, phycobilins, xanthophylls
Nutrient Competition	Some can eat bacteria, can store food as starch and lipids
Protection	Poor, are food for zooplankton
Movement	Yes, 2 or more flagella
Problems	No known problems
Examples	Chroomonas, Cryptomonas

Crédito de la imagen:
CSIRO. (2000, 1 de enero). Cultivos de microalgas. CSIRO ScienceImage.
<https://www.scienceimage.csiro.au/image/7234>

Diatom

Single-celled



Size	Small (5–30 μm)
Reproduction Rate	Fast (0.5–1 day)
Photosynthetic Pigments	Chlorophyll, beta carotene
Nutrient Competition	Superior, can store food as starch and lipids
Protection	Silica case
Movement	No, some can control sinking
Problems	Blooms, a few are toxic
Examples	Stephanodiscus, Cyclotella

Crédito de la imagen:
Canter-Lund, H. (2016). *Stephanodiscus*. *Freshwater Biological Association*.
<http://www.environmentdata.org/archive/fbaia:3040>

Diatom

Colony with many cells



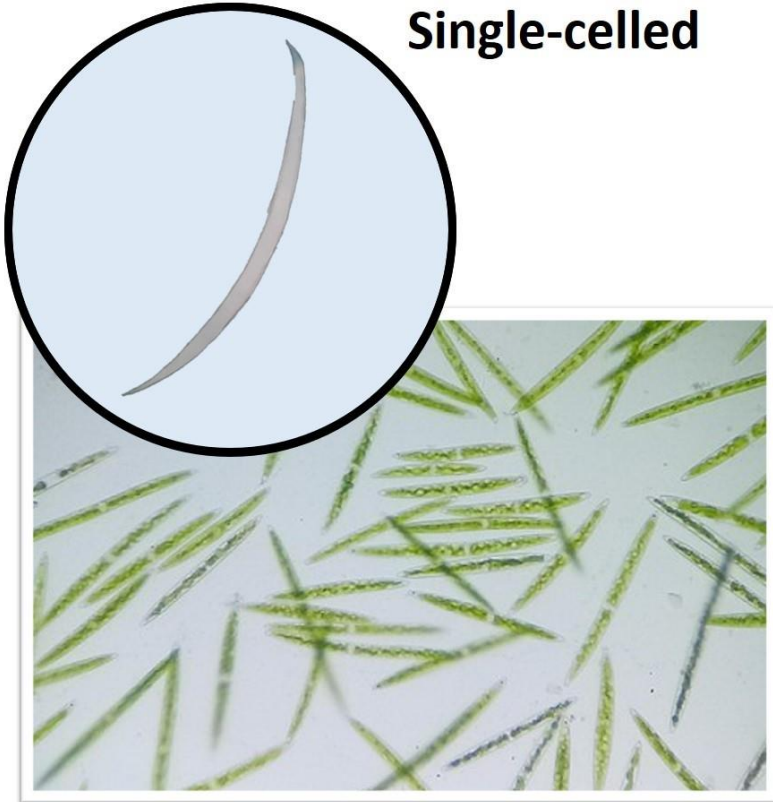
Size	Large (cell: 11–70 μm , colony: 20,000–30,000 μm)
Reproduction Rate	Fast (< 1 day)
Photosynthetic Pigments	Chlorophyll, beta carotene
Nutrient Competition	Superior, can store food as starch and lipids
Protection	Silica case, large colony
Movement	No, some can control sinking
Problems	Blooms, a few are toxic
Examples	Melosira, Skeletonema

Crédito de la imagen:

Peters, K. (2009). *Melosira varians*. Wikimedia Commons https://commons.wikimedia.org/wiki/File:Melosira_varians.jpeg

Green Algae

Single-celled



Size	Large (15–150 μm)
Reproduction Rate	Fast (< 1 day)
Photosynthetic Pigments	Chlorophyll, beta carotene, xanthophylls
Nutrient Competition	Can store food as starch, can release chemicals that slow the growth of other algae
Protection	Large size
Movement	No
Problems	Blooms
Examples	Ankistrodesmus, Closterium

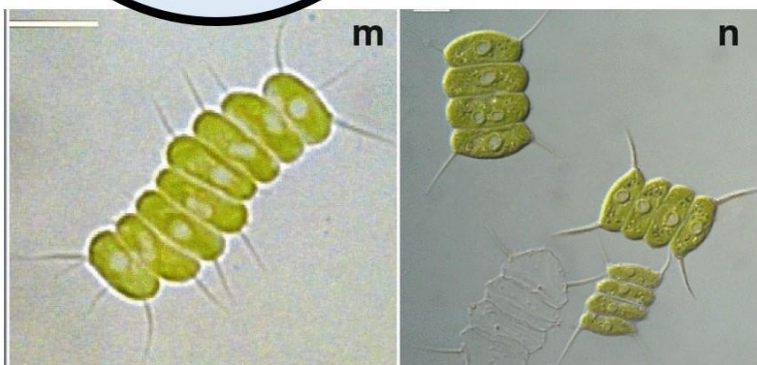
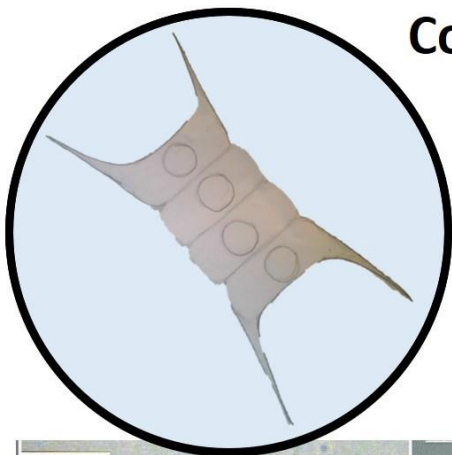
Crédito de la imagen:

Fritzmann2002. (2017). Closterium bajo un microscopio de luz. Wikimedia Commons

https://en.wikipedia.org/wiki/File:Closterium_under_a_light_microscope.jpg

Green Algae

Colony with many cells



Size	Small (cell: 15–35 μm , colony: up to 200 μm)
Reproduction Rate	Fast (0.5–1 day)
Photosynthetic Pigments	Chlorophyll, beta carotene, xanthophylls
Nutrient Competition	Can store food as starch, can release chemicals that slow the growth of other algae
Protection	Large colony, shape, spines
Movement	No
Problems	Blooms
Examples	Scenedesmus, Pediastrum

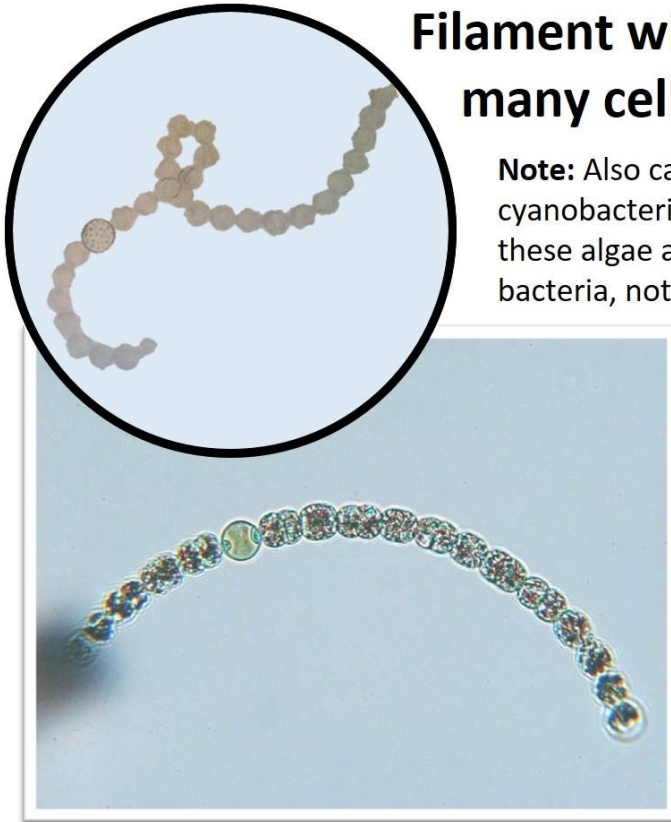
Crédito de la imagen:

Lortou, U., & Gkelis, S. (2019). Taxonomía polifásica de las cepas de algas verdes aisladas en aguas dulces del Mediterráneo. *Revista de Investigación Biológica-Salónica* 26,11 <https://doi.org/10.1186/s40709-019-0105-y>

Blue-Green Algae

Filament with many cells

Note: Also called cyanobacteria, these algae are bacteria, not plants.



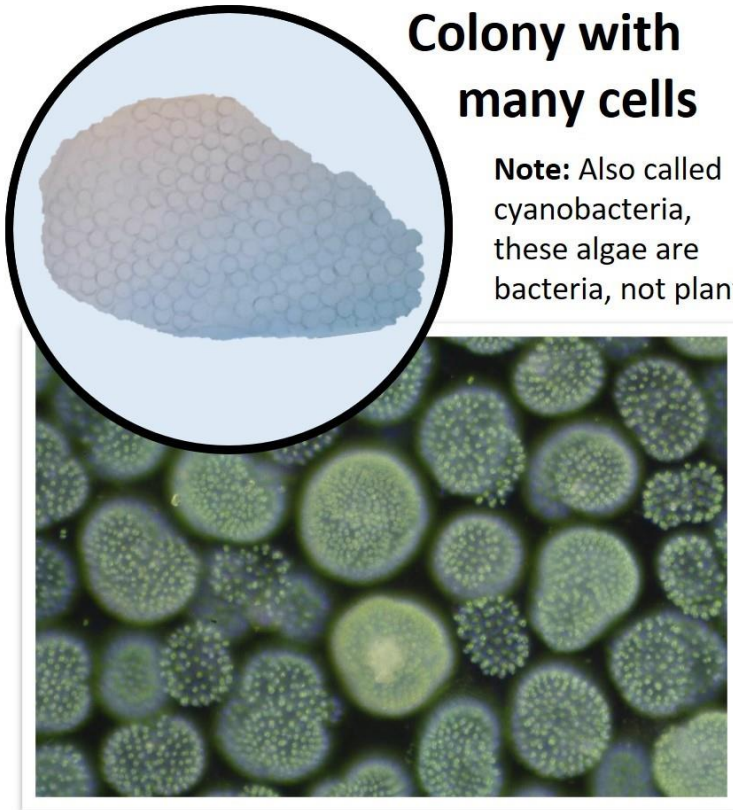
Size	Large (140–2,010 μm)
Reproduction Rate	Slow (1–1.5 days)
Photosynthetic Pigments	Chlorophyll, beta carotene, phycobilins
Nutrient Competition	Fixes nitrogen that other algae can't use
Protection	Large size, can produce toxins
Movement	No, can control sinking
Problems	Blooms, toxins, bad smell/taste, irritates skin
Examples	Anabaena, Oscillatoria

Crédito de la imagen:
Bdcarl. (2012, 13 de abril). *Anabaena circinalis*. Wikimedia Commons
https://commons.wikimedia.org/wiki/File:Anabaena_circinalis.jpg

Blue-Green Algae

Colony with many cells

Note: Also called cyanobacteria, these algae are bacteria, not plants.



Size	Large (2–200 μm)
Reproduction Rate	Slow (1–2 days)
Photosynthetic Pigments	Chlorophyll, beta carotene, phycobilins
Nutrient Competition	Fixes nitrogen other algae can't use, makes chemicals that slow the growth of other algae
Protection	Large colony, can produce toxins
Movement	No, can control sinking
Problems	Blooms, toxins, bad smell/taste
Examples	Microcystis, Merismopedia

Crédito de la imagen:

Motivos Específicos. (2010, 22 de junio). Grave florecimiento bacteriano. Flickr <https://www.flickr.com/photos/28594931@N03/4726267363/>