Guide to Identification of Fresh Water Microorganisms

Microscopic autotrophic organisms (i.e. algae)

Name	Picture	Characteristic	Taxonomy
Green algae (with flagella, small) <.05 mm		flagella small solitary rapid movement	Phylum Chlorophyceae i.e. Chlamyolomonas sp.
Green algae (with flagella) .5-2mm	(%%)	spherical colonial with two flagella	Phylum Chlorophyceae i.e. Volvox sp.
Green algae (no flagella) <.5 mm	am	spherical to conical not attached to surface no movement	Phylum Chlorophyceae i.e. Pediastrum sp.
Filamentous green algae <.1 mm –		non branching chains of cells with chloroplast no flagella	Phylum Gamophyceae i.e. Zygnema sp. Spirogyra sp.
Desmids <.5 mm		green no flagella mainly solitary, some colonial various shapes two semi-cell, mirror image	Phylum Gamophyceae I.e. Desmidium sp Closterium sp.
Diatoms <.5 mm		one cell slow gliding motion solitary or colonial cell wall (frustules) made of silica	Phylum Bacillariophyceae i.e. Pennales, Centric

Guide To Identification Of Fresh Water Microorganisms

lan D. Jones, John P. Smol

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