## Supplementary Material:

**Table S1.** Five examples on how the cell biovolume of different taxa were estimated.

Taxon	Example Picture and Measurements under the	Formula for Estimation of Cell
Tuxon	Microscope	Volume
Peridinium	19.485 µm 15.615 µm	a b
		$V = \frac{4 \cdot \pi}{3} \cdot a \cdot b \cdot c$
Mougeotia	(1) Length 164 29 µm	$V = \pi r^2 h$
Fragilaria	(1) Length 101.33 μm (2) Length 2.10 μm	$V = \frac{\pi d^2 h}{6}$ Elliptical Cone
Chroococcus	(1) Length 4.50 μm	Volume of Sphere $= \frac{4}{3}\pi r^3$
Asterionella	(1) Length 66.87 μm (2) Length 2.51 μm	$V = \pi r^2 h$