

SUPPORTING INFORMATION

For

Determination and Occurrence of Retinoids in a Eutrophic Lake (Taihu Lake, China):

Cyanobacteria Blooms Produce Teratogenic Retinal

Xiaoqin WU, Jieqiong JIANG, and Jianying HU*

MOE Laboratory for Earth Surface Process, College of Urban and Environmental Sciences,
Peking University, Beijing, 100871 China

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Tables 1

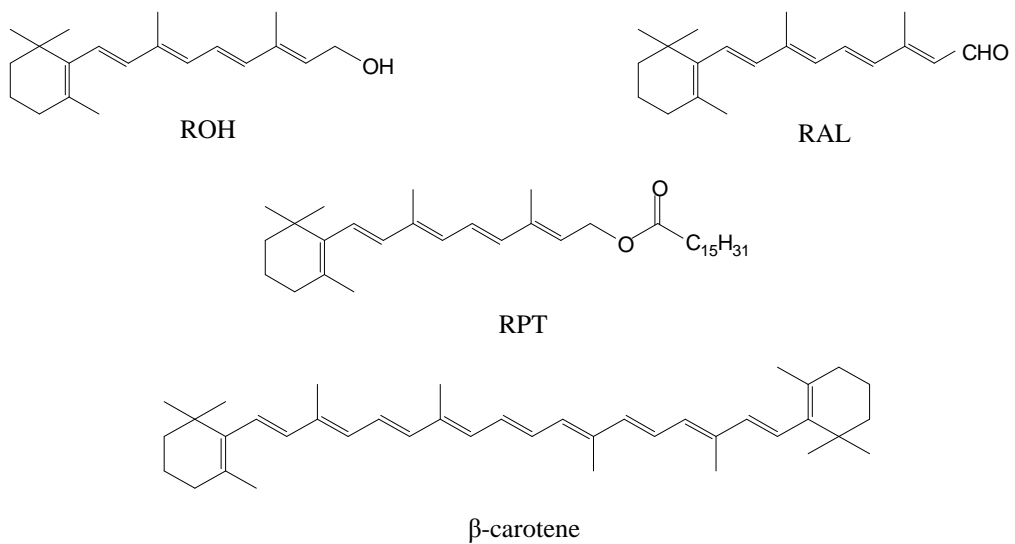


FIGURE S1. Structures of the target analytes.

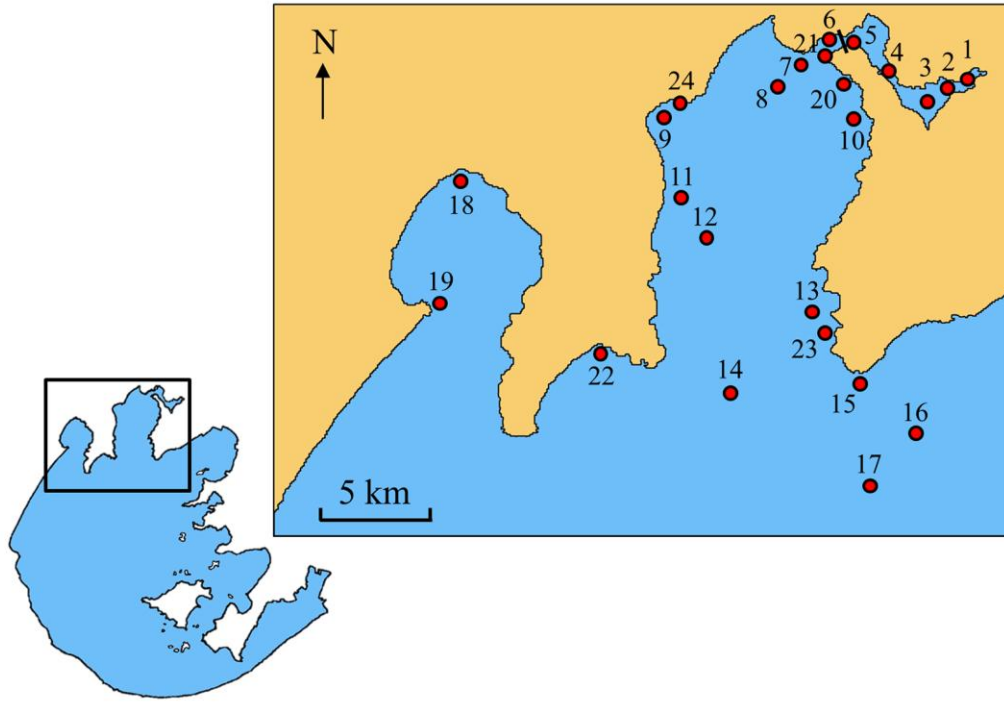


FIGURE S2. Sampling sites in Taihu Lake, China.

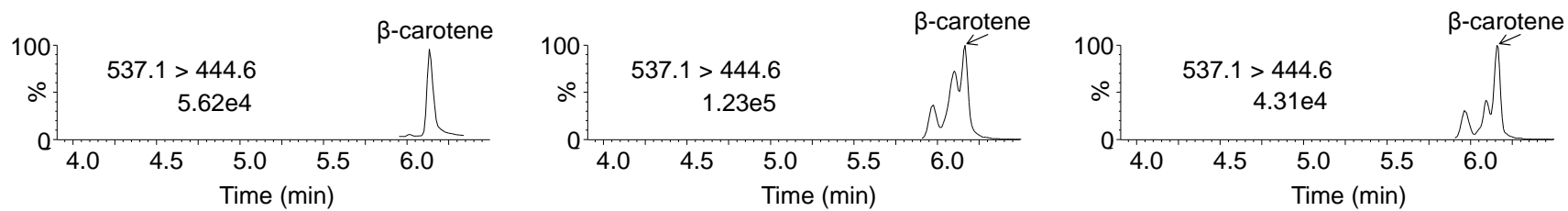


FIGURE S3. LC-MS/MS chromatograms of β -carotene. (*Left*) Standard. (*Center*) Bloom sample from Taihu Lake, China. (*Right*) Water sample from Taihu Lake, China.

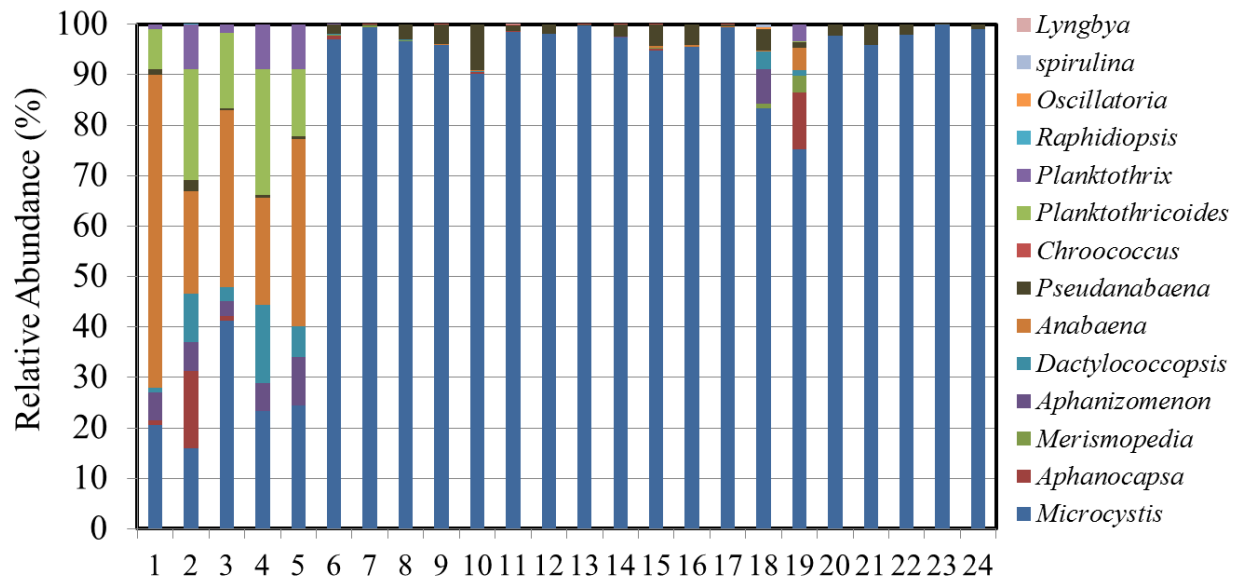


FIGURE S4. Composition of cyanobacteria biomass in Taihu Lake, China.

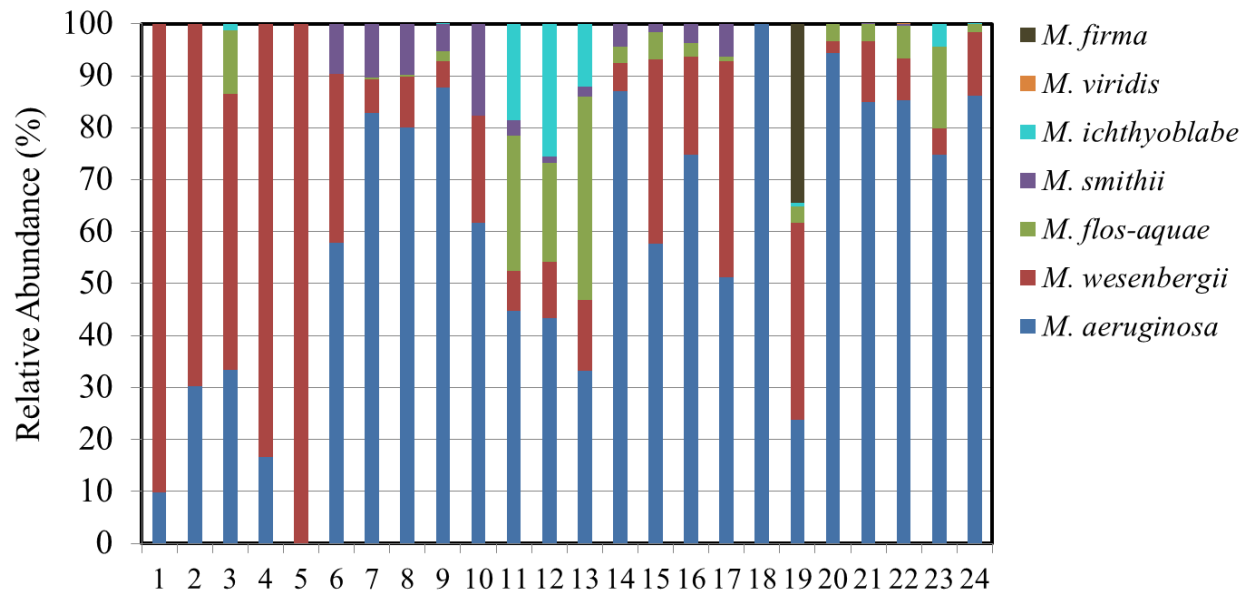


FIGURE S5. Composition of *Microcystis* colonies in Taihu Lake, China.

Table S1. Optimized MRM Conditions for the Analysis of RA Precursors by LC-MS/MS.

Compound	MRM		Confirmation	
	Quantification (m/z)	CV ^a /CE ^b	(m/z)	CV/CE
ROH	269.4>156.8	25/20	269.4>92.9	25/25
RAL	285.4>161	25/15	285.4>175.2	25/15
RPT	269.4>92.9	25/25	269.4>106.7	25/25
β-carotene	537.1>444.6	25/18	537.1>118.8	25/35
RAL- <i>d</i> ₅	290.4>122.2	30/25	290.4>161.2	30/20

^a CV: cone voltage (V).

^b CE: collision energy (eV).