

Table S5. Most abundant OTUs (>1% average relative abundance) and closest cultured relatives determined by BLAST search for the wavelength bioreactors.

OTU	Average Relative Abundance (%)			Phylum	Genus	Accession No.	% Identity
	Red	White	Blue				
1	<1	32.52	87.82	<i>Bacillariophyta</i>	<i>Nitzschia</i>	FJ002224.1	99
2	63.07	34.49	<1	<i>Cyanobacteria</i>	<i>Phormidium</i>	JN166666.1	100
3	8.07	7.17	1.37	<i>Proteobacteria</i>	<i>Wenzhouxiangella</i>	CP012154.1	100
4	2.16	2.00	<1	<i>Proteobacteria</i>	<i>Chelatococcus</i>	NR_025428.1	98
5	2.08	1.77	<1	<i>Bacteroidetes</i>	<i>Lewinella</i>	NR_115013.1	89
6	<1	1.90	<1	<i>Cyanobacteria</i>	<i>Cyanobacterium</i>	NR_102450.1	98
8	3.06	2.71	1.13	<i>Proteobacteria</i>	<i>Rhodobaca</i>	EU908048.1	100
9	2.02	1.05	<1	<i>Cyanobacteria</i>	<i>Phormidium</i>	HM446280.1	94
11	1.86	<1	<1	<i>Proteobacteria</i>	<i>Salinispirillum</i>	NR_134169.1	94
12	1.26	<1	<1	<i>Proteobacteria</i>	<i>Marinobacter</i>	KC534446.1	96
162	1.75	2.31	<1	<i>Bacteroidetes</i>	<i>Lewinella</i>	KF228160.1	89