rreid@wustl.eduSupplementary Materials:

Table 1. Statistical analysis of composition of *C. fritschii* culture.

Analysis	Carbohydrates	Lipids	Proteins
Variable 1	Day: **p= 0.373 ns**	Day: **p= 0.742 ns**	Day: **p= 0.0503 ns**
Variable 2	Light: **p= 0.340 ns**	Light: **p= 0.540 ns**	Light: **p= 0.5839 ns**
Variable 3	Day*Light: **p= 0.211 ns**	Day*Light: **p= 0.106 ns**	Day*Light: **p= 0.8976 ns**
Statistical conclusion	No significant differences: carbohydrates, lipids and proteins content is not different between treatments nor between days.		

Table 2. Bioactive compounds produced by *Chlorogloeopsis* sp.

Products	Compound	Use	Reference
Photo protective compounds	Mycosporine-like amino-acids (MAA)	Sun-screen protectant	[1–3]
	Scytonemin	Sunscreen pigment	[4]
Pigments	Chlorophyll *a*	Pharmaceutical and cosmetic (deodorant)	[5]
	Phycocyanin	Food colorant (ice cream, sweets) cosmetics, biomedicine: immunofluorescent techniques, antibody labelling	[6]
	Zeaxanthin	Use as a compound in treatment of age-related macular degeneration, anticancer activity	[7]
Bioplastics	Polyesters of polyhydroxy alkanoates (PHA)	Thermoplastic comparable to the synthetic plastic, polypropylene	[8]
	Polyhydroxybutyrate (PHB)	Highly hydrophobic, thermoplastic, biodegradable and biocompatible	[8,9]
Plant growth promoters	Cytokinin	Promotes cell division in plant roots and shoots	[10]

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