

Supplemental Material

A Hard Days Night: Cyanobacteria in Diel Cycles

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Table S1 Genes whose expression exhibits diurnal cycling or increases upon exposure to low light / dark conditions.

Genes important for fitness in LDC	Genes induced by dark exposure in night phase (Kai-dependent)	Genes induced in dark exposure in day phase (Kai-independent)	Genes induced by dark exposure in day phase (Kai-dependent)	Genes induced by shade pulse in day phase *
Ref: [S1]	Ref: [S2]	Ref: [S2]	Ref: [S3]	Ref: [S4]
Synpcc7942_0002	Synpcc7942_0004	Synpcc7942_0096	Synpcc7942_0069	Synpcc7942_0005
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Synpcc7942_0086	Synpcc7942_0033	Synpcc7942_0162	Synpcc7942_0147	Synpcc7942_0033
Synpcc7942_0092	Synpcc7942_0052	Synpcc7942_0163	Synpcc7942_0162	Synpcc7942_0034
Synpcc7942_0095	Synpcc7942_0086	Synpcc7942_0193	Synpcc7942_0182	Synpcc7942_0035
Synpcc7942_0156	Synpcc7942_0122	Synpcc7942_0233	Synpcc7942_0183	Synpcc7942_0039
Synpcc7942_0184	Synpcc7942_0181	Synpcc7942_0252	Synpcc7942_0193	Synpcc7942_0040
Synpcc7942_0195	Synpcc7942_0195	Synpcc7942_0415	Synpcc7942_0195	Synpcc7942_0053
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Synpcc7942_0247	Synpcc7942_0245	Synpcc7942_0764	Synpcc7942_0253	Synpcc7942_0061
Synpcc7942_0248	Synpcc7942_0253	Synpcc7942_1063	Synpcc7942_0267	Synpcc7942_0062
Synpcc7942_0249	Synpcc7942_0260	Synpcc7942_1071	Synpcc7942_0291	Synpcc7942_0069
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Synpcc7942_0464	Synpcc7942_0444	Synpcc7942_1824	Synpcc7942_0623	Synpcc7942_0147
Synpcc7942_0498	Synpcc7942_0450	Synpcc7942_1845	Synpcc7942_0677	Synpcc7942_0163
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Synpcc7942_1458	Synpcc7942_1062		Synpcc7942_1542	Synpcc7942_0324
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	Synpcc7942_1849		Synpcc7942_0704
	Synpcc7942_1890		Synpcc7942_0705
	Synpcc7942_1922		Synpcc7942_0720
	Synpcc7942_1930		Synpcc7942_0732
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Synpcc7942_B2644
Synpcc7942_B2658
Synpcc7942_B2663
Synpcc7942_R0014
Synpcc7942_R0018
Synpcc7942_R0027
Synpcc7942_R0046
Synpcc7942_R0053

* (Log2 normalized to average 'Low Light' expression >1); Minutes in Shade = 60. Hours since dawn = 9.

Supplemental references

- S1 Welkie, D.G., et al. (2018) Genome-wide fitness assessment during diurnal growth reveals an expanded role of the cyanobacterial circadian clock protein KaiA. *Proc. Natl. Acad. Sci. U. S. A.* 115, E7174-E7183
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