

Supplementary Materials

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Supplementary Table S1. List of sequences from the obtained study and NCBI database used in this analysis, with accession numbers

Species name	Accession No.
<i>Cylindrospermopsis raciborskii</i> CHAB158	KU360018.1
<i>Cylindrospermopsis raciborskii</i> CHAB487	KU360023.1
<i>Cylindrospermopsis catemaco</i> CHAB148	KU359976.1
<i>Cylindrospermopsis raciborskii</i> CHAB362	KU360019.1
<i>Cylindrospermopsis raciborskii</i> CHAB1351	FJ890633.1
<i>Anabaena oscillarioides</i> BECID22	AJ630426.1
<i>Anabaena oscillarioides</i> BECID32	AJ630427.1
<i>Dolichospermum</i> sp. UHCC0315A	CP043056
<i>Dolichospermum mendotae</i> 04-45	FM242084
<i>Dolichospermum mendotae</i> CHAB 3512	KJ482666.1
<i>Dolichospermum mendotae</i> CHAB 4412	KJ482668.1
<i>Dolichospermum circinale</i> CCAP 1403/21	HF678497
<i>Dolichospermum flos-aquae</i> CHAB1665	XJ910223
<i>Dolichospermum flos-aquae</i> CHAB1635	XJ910205.1
<i>Cuspidothrix issatschenkoi</i> 0tu37s7	AJ630446.1
<i>Cuspidothrix issatschenkoi</i> SP33	FN689797.1
<i>Cuspidothrix issatschenkoi</i> AB2008/05	FN869878.1
<i>Desmonostoc danxiaense</i> CHAB5869	MH291267.1
<i>Desmonostoc danxiaense</i> CHAB5868	MH291266.1
<i>Desmonostoc salinum</i> CCM-UFV059	KX787933.1
<i>Desmonostoc</i> sp. 81_NMI_ANAB	KF761562.1
<i>Komarekiella atlantica</i> CCIBT 3307	KX638483.1
<i>Komarekiella atlantica</i> CCIBT 3487	KX638488.1
<i>Anabaenopsis elenkinii</i> SAG 252.80	KM020015
<i>Anabaenopsis circularis</i> PMC193.03	GQ859630
<i>Anabaenopsis elenkinii</i> NIVA-CYA 501	AM773309.1
<i>Anabaenopsis elenkinii</i> NIVA-CYA 494	AM773308.1
<i>Cyanospira capsulata</i> 9NAT	FR774776.1
<i>Cyanospira capsulata</i> CCAX	FR774777.1
<i>Cyanospira rippkae</i> CR86F7	FR774774.1
<i>Cyanospira rippkae</i> NMBCI	FR774768.1
<i>Cyanocohniella calida</i> CICALA 1049 operon 2	KJ737428.1
<i>Cyanocohniella calida</i> CICALA 1049 operon 1	KJ737427.1
<i>Cyanocohniella calida</i> Kastovsky 1996/2	EU116036.1
<i>Cyanocohniella calida</i> CICALA 1049 operon 1	KJ737427.1
<i>Goleter apudmare</i> HA4340-LM2	KF417425.1
<i>Goleter apudmare</i> HA4356-MV2 clone p8i	JN385289.1
<i>Goleter apudmare</i> HA4356-MV2 clone p8GH	JN385288.1
<i>Trichormus</i> sp. PCC 7120	X59559.1
<i>Trichormus variabilis</i> IAM M-3	AB016520.1
<i>Trichormus variabilis</i> ATCC 29413	CP000117.1
<i>Trichormus variabilis</i> NIES23	AF247593.1
<i>Microchaete tenera</i> ACOI 1451	HE797732.1
<i>Microchaete tenera</i> ACOI 2161	HE797731.1
<i>Halotia branconii</i> CENA186	KC695877
<i>Halotia branconii</i> CENA392	KJ843312.1
<i>Halotia longispora</i> CENA184	KC695875.2
<i>Halotia longispora</i> CENA420	KJ843313.1
<i>Nodularia spumigena</i> NODSPU3	KX557269.1
<i>Nodularia sphaerocarpa</i> UTEX B 2093	AJ781148.1
<i>Nodularia spumigena</i> PCC9350	AY038034.1
<i>Nostoc calcicola</i> III	AJ630447.1
<i>Nostoc calcicola</i> VI	AJ630448.1
<i>Nostoc edaphicum</i> X	AJ630449.1
<i>Nostoc punctiforme</i> strain PCC 73102	NR_074317.1

Supplementary Table S1. Continued

Species name	Accession No.
<i>Nostoc lichenoides</i> CNP-AK1	AY577535.1
<i>Nostoc minutum</i> ACS51 168	KY283066.1
<i>Nostoc indistinguenda</i> CM1-VF10	AY577538.1
<i>Nostoc desertorum</i> CM1-VF14	AY577537.1
<i>Nostoc sphaeroides</i> strain Kutzing En	CP031941.1
<i>Compactonostoc shennongjiaensis</i> CHAB5781	MH598842
<i>Hassallia antarctica</i> strain CCALA 957	NR_117192.1
<i>Hassallia andreassenii</i> strain CCALA 954	NR_117191.1
<i>Kryptousia microlepis</i> CENA329	KY508607.1
<i>Kryptousia microlepis</i> CENA334	KY5086078.1
<i>Kryptousia macronema</i> CENA336	KY5086091.0
<i>Kryptousia macronema</i> CENA338	NR_157980.1
<i>Kryptousia macronema</i> CENA338	KY508610.1
<i>Kryptousia microlepis</i> CENA354	NR_157979.1
<i>Cylindrospermum alatosporum</i> SAG 43.79	GQ287650.1
<i>Cylindrospermum stagnale</i> PCC 7417	AF132789.1
<i>Cylindrospermum majus</i> strain CCALA 998	KF052641.1
<i>Cylindrospermum alatosporum</i> CCALA 988 clone operon 1	KF052599.1
<i>Cylindrospermum catenatum</i> CCALA 991 clone operon 2	KF052604.1
<i>Mojavia pulchra</i> JT2-VF2	AY577534.1
<i>Mojavia</i> sp. AR1	MF002044.1
<i>Aliinostoc morphoplasticum</i> NOS	NR_158066
<i>Aliinostoc</i> sp. PCC 8112	AM711537
<i>Aliinostoc</i> sp. PCC 8976	AM711525.1
<i>Cronbergia amazonensis</i> CMAA1598	MF002129.1
<i>Cronbergia siamensis</i> strain SAG 11.82	NR_153750.1
<i>Petalonema</i> sp. ANT.LG2.8	AY493624.1
<i>Cyanomargarita melechinii</i> APA-RS9	KY296603.1
<i>Cyanomargarita calcarea</i> GSE_NOS_12_04C	KY296606.1
<i>Macrochaete lichenoides</i> SAG 32.92	KU559618.1
<i>Macrochaete santannae</i> CCALA 1093 clone operon 2	KT336441.1
<i>Macrochaete santannae</i> CCALA 1093 clone operon 1	KT336440.1
<i>Macrochaete psychrophila</i> CCALA 1092 clone operon 2	KR350578.2
<i>Macrochaete psychrophila</i> ANT SPH 13/96	KU559617.1
<i>Macrochaete psychrophila</i> CCALA 1092 clone operon 1	KR350577.2
<i>Petalonema</i> sp. HA4277-MV1 clone p6G	HQ847568.1
<i>Macrochaete psychrophila</i> TS40B/09 clone operon 2	KR350575.1
<i>Macrochaete psychrophila</i> NU16B/09 clone operon 1	KR350580.1
<i>Scytonematopsis contorta</i> HA4292-MV4 clone B2 + p4	HQ847561.1
<i>Scytonematopsis contorta</i> HA4292-MV4 clone B2 + p2	HQ847559.1
<i>Minunostoc cylindricum</i> CHAB5843	MH918062.1
<i>Minunostoc cylindricum</i> CHAB5844-1	MK045294.1
<i>Violetonostoc minutum</i> CHAB 5840	MN400069
<i>Violetonostoc minutum</i> CHAB 5841	MN400070
<i>Rivularia atra</i> BIR MGR1	AM230675.1
<i>Rivularia atra</i> BIR KRIV1	AM230674.1
<i>Phyllonema aviceniicola</i> CENA341	NR_148663.1
<i>Phyllonema aviceniicola</i> CENA341	KT731158.1
<i>Phyllonema aviceniicola</i> CENA330	KT731150.1
<i>Phyllonema aviceniicola</i> CENA328	KT731149.1
<i>Brasilonema bromeliae</i> SPC 951	DQ486055.1
<i>Brasilonema</i> sp. CENA114	EF117246.1
<i>Chlorogloeopsis fritschii</i> PCC 6718	AF132777.1
<i>Chlorogloeopsis fritschii</i> PCC 6912	AB093489.1
<i>Chakia ciliosa</i> 3	KC875343.1
<i>Chakia ciliosa</i> 8	KC875345.1
<i>Chakia ciliosa</i> 5	KC875344.1
<i>Chakia ciliosa</i> 27	KC875346.1
<i>Microcoleus vaginatus</i> SRS1-KK2	EF654078.1
<i>Microcoleus vaginatus</i> PBP-D-KK1	EF654072.1
<i>Microcoleus vaginatus</i> SNM1-KK1	EF654077.1
<i>Gloeobacter violaceus</i> VP3-01	FR798924.1