



Supplementary material

Composition and diversity of culturable cyanobacteria in sediment samples from the upper layers of two tropical reservoirs

Composición y diversidad de cianobacterias cultivables en muestras de sedimentos superiores de dos embalses tropicales

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Table S1. Quantification of Microcystins by ELISA in culture from sediment samples of Porce II and Riogrande II reservoirs

Porce II			Riogrande II		
Station	Sampling Time	MCs (µg/L)	Station	Sampling Time	MCs (µg/L)
Porce river	June	nd	Chico river	December	nd
	July	nd		March	nd
	August	2.5		April	nd
	September	0.56		May	nd
Confluencia	June	1.21	Las ánimas steam	December	nd
	July	1.35		March	nd
	August	nd		April	0.23
	September	1.12		May	0.27
Presa	June	nd	Grande river	December	nd
	July	nd		March	nd
	August	nd		April	nd
	September	0.16		May	nd

nd: no detected.

Table S2. Number of OTUs assigned to a specific cyanobacterial genus with 95% ID

Order	Genus	# OTUs PII	# OTUs RGII
Nostocales	<i>Anabaena</i>	3	5
	<i>Anabaenopsis</i>	2	0
	<i>Calothrix</i>	26	23
	<i>Cylindrospermum</i>	3	0
	<i>Desmonostoc</i>	1	6
	<i>Dolichospermum</i>	0	2
	<i>Fischerella</i>	16	0
	<i>Hapalosiphon</i>	17	0
	<i>Nostoc</i>	8	13
	<i>Neowestiellopsis</i>	8	0
	<i>Roholtiella</i>	1	1
	<i>Trichormus</i>	0	9
	<i>Tolypothrix</i>	3	1
	<i>Umezakia</i>	1	0
<i>Westiellopsis</i>	19	0	
	Total	13 genus (108 OTUs)	8 genus (60 OTUs)
Chroococcales	<i>Cyanobacterium</i>	87	20
	<i>Gloeotheca</i>	2	1
	<i>Leptodesmis</i>	0	7
	Total	2 genus (89 OTUs)	3 genus (28 OTUs)
Oscillatoriales	<i>Lyngbya</i>	1	0
	<i>Oscillatoria</i>	2	0
	<i>Phormidium</i>	24	2
	<i>Microcoleus</i>	0	1
	Total	3 genus (27 OTUs)	2 genus (3 OTUs)
Synechococcales	<i>Pseudanabaena</i>	50	6
	<i>Leptolyngbya</i>	29	42
	<i>Scytolyngbya</i>	0	1
	<i>Phormidesmis</i>	3	8
	<i>Alkalinema</i>	0	3
	<i>Pantanalinema</i>	33	3
	<i>Chroakolemma</i>	1	0
	<i>Arthronema</i>	2	1
	Total	6 genus (118 OTUs)	7 genus (64 OTUs)
Genus total		24	20
OTUs total		342	155

**Table S3.** Mean values of copies of the mcyD-mcyE gene in sediment samples from both reservoirs

Reservoir	Station	Sediment (direct sample)	
		mcyD (copies/mL)	mcyE (copies/mL)
Riogrande II	Chico river	7456	8
	Las ánimas stream	11853	218
	Grande river	134299	9
Mean total RGII		51203	78
Porce II	Porce river	197	9
	Confluencia	1118	136
	Presa	4903	133
Mean total PII		2073	93

Note: The plasmid used for the quantification mcyD gene had a concentration of 1.23×10^9 copies/ μ L while the plasmid for mcyE gene had a concentration 3.03×10^9 copies/ μ L.