Plant and Soil

Supplementary Data

Isolation and characterization of soil cyanobacteria and microalgae and evaluation of their potential as plant biostimulants

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Table S1 Oligonucleotide primers used within this study

Target gene/sequence	Primer[a]	Sequence 5'→ 3'	Reference
16S rRNA (Cyanobacteria)	8-27F	AGAGTTTGATCCTGGCTCAG	Weisburg et al. 1991
	CYA361F	GGAATTTTCCGCAATGGG	Mühling et al. 2008
	CYA781R (A)[b] CYA781R (B)	GACTACTGGGGTATCTAATCCCATT GACTACAGGGGTATCTAATCCCTTT	Nübel et al. 1997
	1492R	GGTTACCTTGTTACGACTT	Weisburg et al. 1991
	16SF	CGCTAGTAATCGCAGGTCA	Brito et al. 2017
ITS (Cyanobacteria)	CSIF	GYCACGCCCGAAGTCRTTAC	Janse et al. 2004
	ULR	CCTCTGTGTGCCTAGGTATC	Janse et al. 2004
23S rRNA (Cyanobacteria)	ULF	GATACCTAGGCACACAGAGG	Ramos et al. 2010
	23sR	ACGGGAATCGAGTTTTCTTTC	This work
	23s2R	GCTTTCTCTTCCTCCAGCTA	This work
	23S800F	GGTTAGGGGTGAAATGCCAA	Ramos et al. 2010
	23S1027R	GCTGGTGGTCTGGGCTGTTT	Ramos et al. 2010
	23S1682F	CTCTCTAAGGAACTCGGCAAA	Ramos et al. 2010
	23S1932R	CCTTAGGACCGTTATAGTTA	Ramos et al. 2010
	p23SrV_r1	TCAGCCTGTTATCCCTAGAG	Sherwood and Presting 2007
18S rRNA (Microalga)	NS1	GTAGTCATATGCTTGTCTC	White et al. 1990
	574F	CGGTAAYTCCAGCTCYAV	Hugerth et al. 2014
	1132R	CCGTCAATTHCTTYAART	Hugerth et al. 2014
	NS7m	GGCAATAACAGGTCTGT	Friedl 1996
	18L	CACCTACGGAAACCTTGTTACGACTT	Hamby et al. 1988
28S rRNA (Microalga)	LR 1850	CCTCACGGTACTTGTTC	Friedl 1996

[a]F (forward) and R (reverse)

[b](A) and (B) – primers used together in a mixture with equimolar concentration

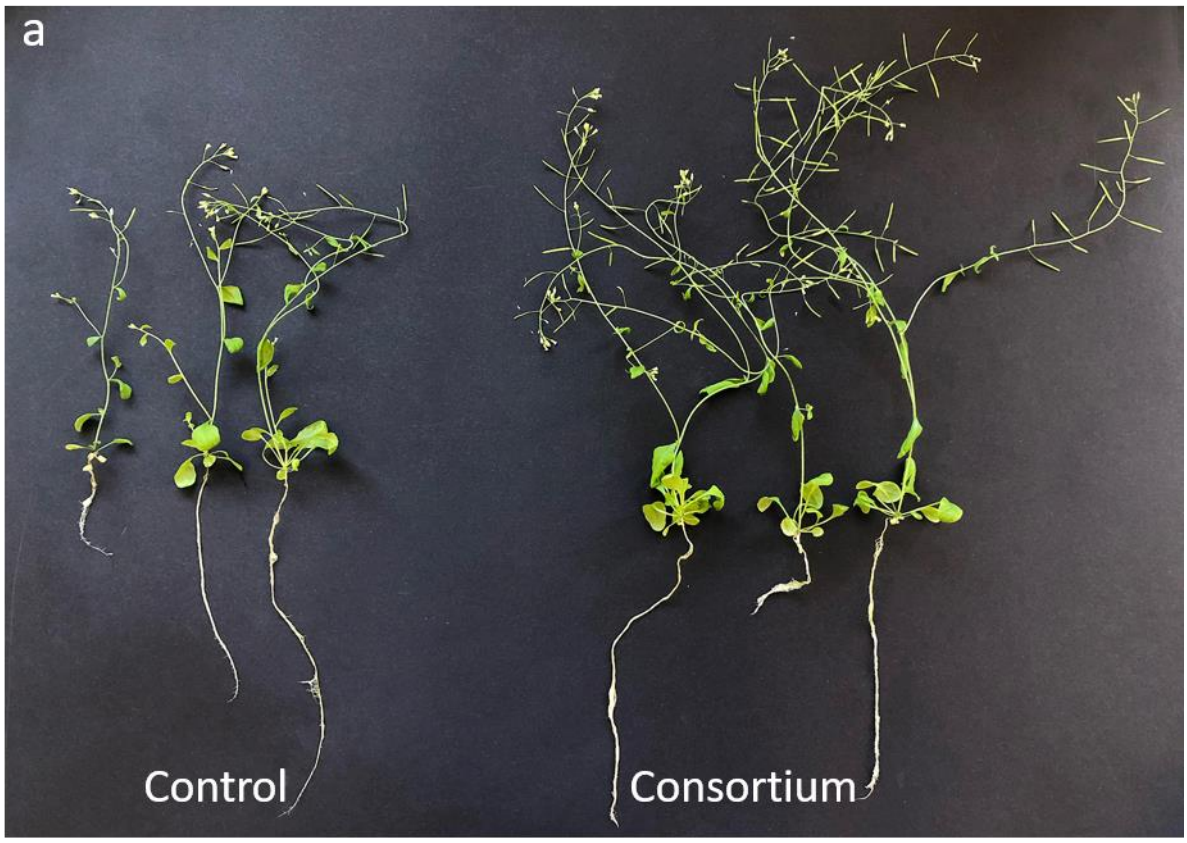

Fig. S1 *Arabidopsis thaliana* (**a**) and *Lolium multiflorum* (**b**) plants grown for one month in hydroponic cultures with Hoagland medium (**Control**) or Hoagland medium supplemented with the microorganisms' consortium (**Consortium**) (for details see Material and methods and Table 2).

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