

Supplementary Table S1. Distribution of shared and unique operational taxonomic units (OTUs) among bacterial communities in the endosphere (E), phyllosphere (P) and rhizosphere (R) of two Antarctic vascular plants, based on high-throughput DNA sequencing data in each plant species ($n=4$).

Taxa (phylum)	<i>Deschampsia antarctica</i>				<i>Colobanthus quitensis</i>			
	Shared OTUs	Unique OTUs			Shared OTUs	Unique OTUs		
		E	P	R		E	R	R
p_unclassified				3				1
<i>Acidobacteria</i>	64	2	9	374	23	2	37	359
<i>Actinobacteria</i>	196	88	82	211	157	48	138	197
AD3				5				7
<i>Armatimonadetes</i>	3	1	2	40	3		3	49
<i>Bacteroidetes</i>	198	15	87	294	97	66	147	223
BHI80-139				2				1
BRC1				3			1	2
<i>Chlamydiae</i>				2			1	5
<i>Chlorobi</i>	2			7	15	1	1	4
<i>Chloroflexi</i>	28	2	3	48			12	55
<i>Crenarchaeota</i>	2			1		1		4
<i>Cyanobacteria</i>	4	3	2	16	5		6	19
<i>Elusimicrobia</i>			1	15				17

<i>Euryarchaeota</i>				7				1
FBP	4		3	1	2		5	9
<i>Fibrobacteres</i>	1		2	73	1			2
<i>Firmicutes</i>	14	268	28	2	11	227	84	58
<i>Fusobacteria</i>				45			7	1
<i>Gemmatimonadetes</i>	11	1	2	2	9		7	40
<i>Lentisphaerae</i>			1					
<i>Nitrospirae</i>	3			7				2
NKB19			1					
OD1	1			15				19
OP11				4				5
OP3				4				8
<i>Planctomycetes</i>	25	9	6	181	13	3	10	218
<i>Proteobacteria</i>	482	123	213	952	309	94	275	798
<i>Spirocahetes</i>							1	
SR1				1				1
<i>Tenericutes</i>		1	1					
<i>Thermi</i>	3		1	2			1	2
TM6				11				11
TM7	16	2	11	29	7	1	7	23
<i>Verrucomicrobia</i>	51	2	17	117	26		19	125
WPS-2	1			9		4	2	21

WS2				3				1
WS3				3				4
Sub-total				<hr/>			<hr/>	
		517	472	2,489			447	764
								2,292
<hr/>								
Total	1,109		3,478		678			3,503

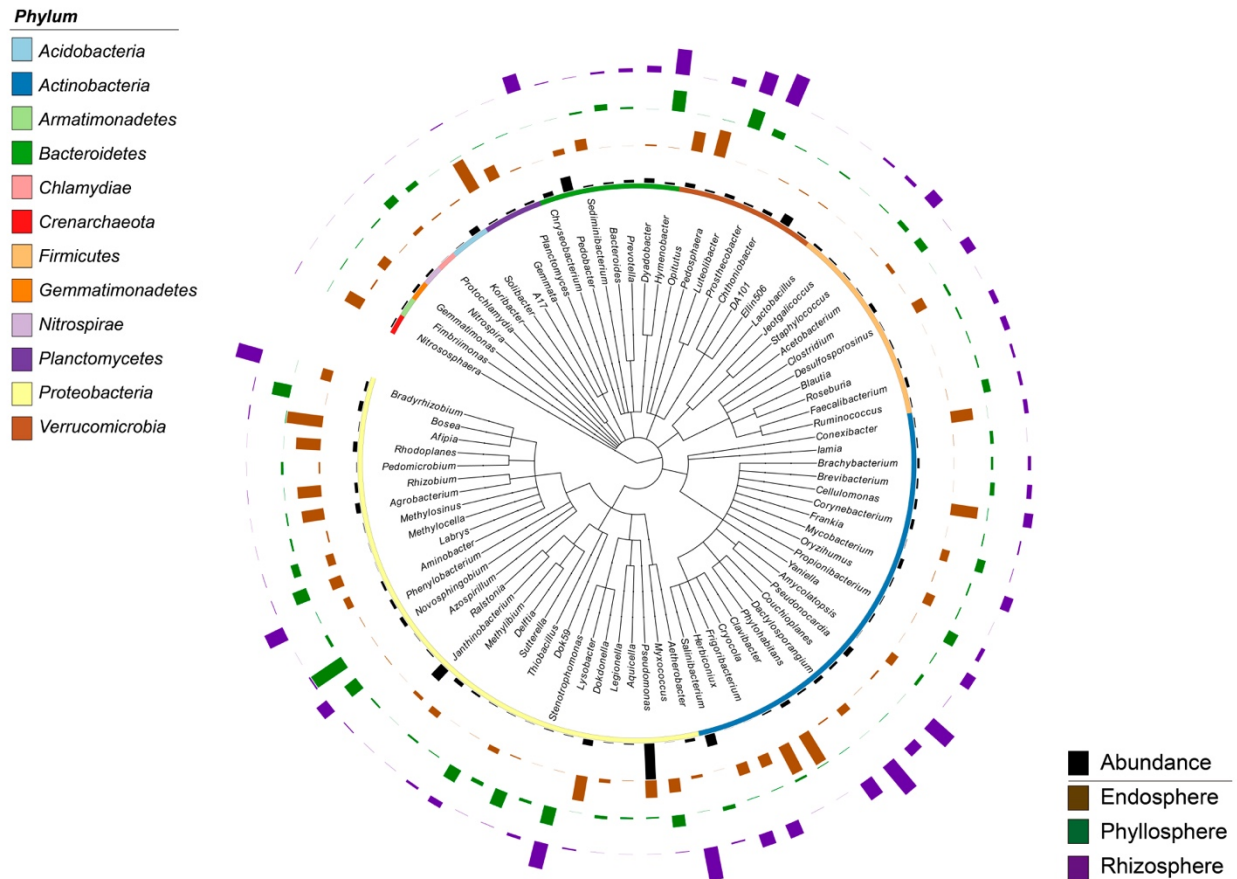


Figure S1. Indicator tree showing the taxonomy and taxon-treatment-association strength of 84 microbial genera significantly ($q < 0.1$) associated with different compartments within Antarctic plants. Colors within the inner circle identify phyla. Heights of black bars in the innermost ring represent the square-root transformed abundances of the corresponding genera in the overall community. Heights of the colored bars on the remaining rings represent the relative, significant, association-strength ($q < 0.1$) between the corresponding genera and the different compartments in Antarctic plants.