

SUPPLEMENTAL MATERIAL

Table S1 The number of sequences and OTUs from each sample in the dataset.

Sampling	Sample	Number of sequences and OTUs in each sample	
		Number of sequences	Number of OTUs
S1	Filter.0.2um.A	220295	852
	Filter.0.2um.B	165079	1076
	Filter.0.2um.C	86853	1122
	Filter.5um.A	251406	2997
	Filter.5um.B	363554	3076
	MBA.10C.10w.A	102657	372
	MBA.10C.10w.B	53969	240
	MBA.10C.10w.C	106918	226
	MBA.25.5w.B	119813	297
	MBA.25C.5w.A	108321	157
	MBA.25C.5w.C	136518	152
	MBG.10C.10w.A	302303	1493
	MBG.10C.10w.B	144939	830
	MBG.10C.10w.C	172083	148
	MBG.25C.5w.A	36590	98
	MBG.25C.5w.B	183976	237
	MBG.25C.5w.C	211098	189
	SWA.10C.10w.A	79051	111
	SWA.10C.10w.B	91203	202
	SWA.10C.10w.C	96301	59
	SWA.25C.5w.A	95666	82
	SWA.25C.5w.B	8791	83
	SWA.25C.5w.C	187820	71
	SWG.10C.10w.A	65216	151
	SWG.10C.10w.B	67144	162
	SWG.10C.10w.C	115029	194
	SWG.25C.5w.A	687394	425
	SWG.25C.5w.B	180930	229
	SWG.25C.5w.C	199525	852
	S2	Filter.0.2um.A	138337
Filter.0.2um.B		113220	944
Filter.0.2um.C ^a		3813	208
Filter.5um.A		225494	1057
Filter.5um.B		291596	1280
MBA.0.5.10C.5w.A ^b		45862	77
MBA.0.5.10C.5w.B ^b		54884	94

MBA.0.5.10C.5w.C ^b	110085	173
MBA.0.5.25C.2w.A ^b	21065	46
MBA.0.5.25C.2w.B ^b	26655	59
MBA.0.5.25C.2w.C ^b	151989	102
MBA.10C.10w.A	75313	114
MBA.10C.10w.B	320221	55
MBA.10C.10w.C	40700	61
MBA.10C.5w.A	93617	277
MBA.10C.5w.B	127045	80
MBA.10C.5w.C	114783	128
MBA.25.2w.A	160553	246
MBA.25C.2w.B	207982	164
MBA.25C.2w.C	192807	201
MBA.25C.5w.A	82020	63
MBA.25C.5w.B	93446	77
MBA.25C.5w.C	61493	61
MBA.50.10C.5w.A ^c	41791	92
MBA.50.10C.5w.B ^c	17682	72
MBA.50.10C.5w.C ^c	84869	130
MBA.50.25C.2w.A ^c	19261	62
MBA.50.25C.2w.B ^c	49606	91
MBA.50.25C.2w.C ^c	110176	184
MBG.10C.5w.A	510041	471
MBG.10C.5w.B ^a	4801	59
MBG.10C.5w.C	151464	130
MBG.10C.10w.A	46633	43
MBG.10C.10w.B	184191	59
MBG.10C.10w.C	56434	49
MBG.25C.2w.A	177643	348
MBG.25C.2w.B	82369	169
MBG.25C.2w.C	105949	227
MBG.25C.5w.A	169192	46
MBG.25C.5w.B	52877	49
MBG.25C.5w.C	63316	49
SWA.0.5.10C.5w.A ^b	73126	134
SWA.0.5.10C.5w.B ^b	74161	170
SWA.0.5.10C.5w.C ^b	94583	281
SWA.0.5.25C.2w.A ^b	37458	56
SWA.0.5.25C.2w.B ^b	113836	138
SWA.0.5.25C.2w.C ^b	134027	111
SWA.10C.10w.A	158612	130
SWA.10C.10w.B	60867	78
SWA.10C.10w.C	253819	82
SWA.10C.5w.A	123741	235

SWA.10C.5w.B	127184	251
SWA.10C.5w.C	117251	446
SWA.25C.2w.A	215608	181
SWA.25C.2w.B	128752	238
SWA.25C.2w.C	141008	398
SWA.25C.5w.A	92017	109
SWA.25C.5w.B	106022	112
SWA.25C.5w.C	54175	65
SWA.50.10C.5w.A ^c	60425	74
SWA.50.10C.5w.B ^c	108097	72
SWA.50.10C.5w.C ^c	101780	58
SWA.50.25C.2w.A ^c	43389	54
SWA.50.25C.2w.B ^c	135259	110
SWA.50.25C.2w.C ^c	102638	85
SWG.10C.10w.A	213337	88
SWG.10C.10w.B	201466	68
SWG.10C.10w.C	119261	112
SWG.10C.5w.A	161499	267
SWG.10C.5w.B	183605	329
SWG.10C.5w.C	119067	253
SWG.25C.2w.A	278480	139
SWG.25C.2w.B	146178	190
SWG.25C.2w.C	169674	757
SWG.25C.5w.A	155510	153
SWG.25C.5w.B	42587	91
SWG.25C.5w.C	56308	60

^a These samples were excluded from the subsequent sequence analyses due to the subsampling cutoff of 8,500 sequences.

^b Plates supplemented with 0.5 μ M AHLs

^c Plates supplemented with 50 μ M AHLs

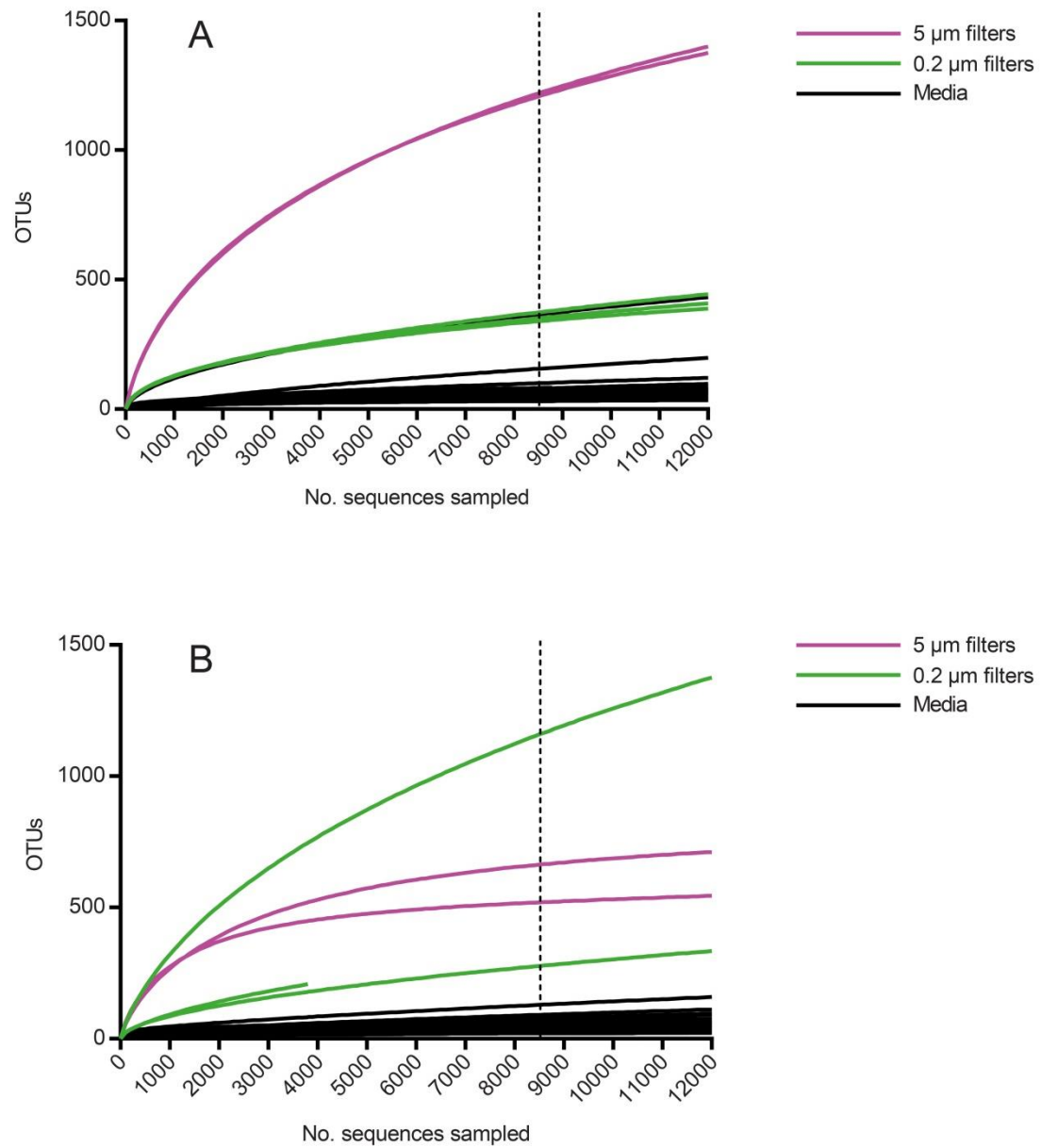


FIGURE S1 Rarefaction curves from all sequenced samples from sampling 1 (A) and sampling 2 (B). Sequences were clustered at a 97 % sequence similarity. In the subsequent diversity analyses 8,500 sequences from each sample were analyzed as indicated by the dashed line.

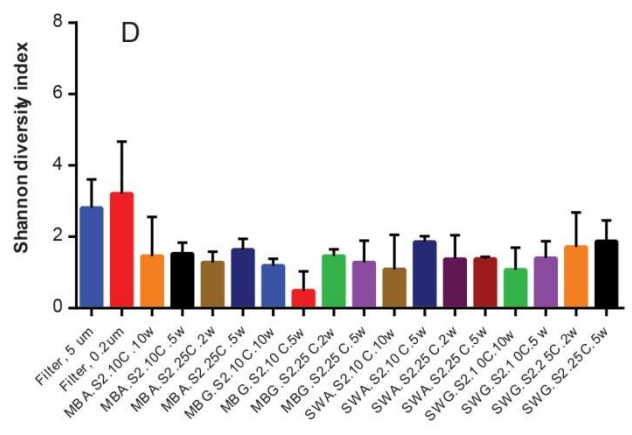
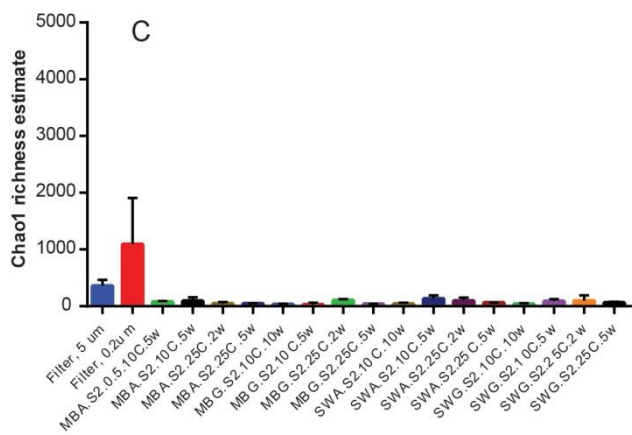
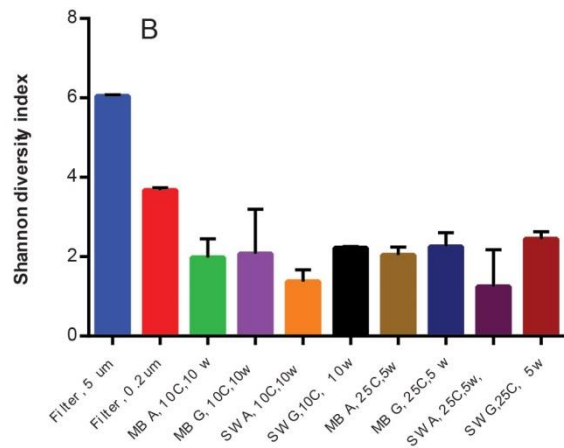
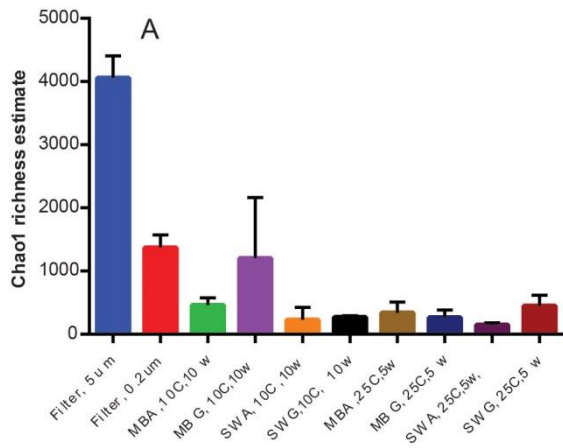


FIGURE S2 Measures of alpha-diversity in the two data sets. The Chao1 richness estimates for sampling 1 and 2 are shown in panels A and C, respectively, and the Shannon diversity index values are shown in panels B and D for sampling 1 and 2, respectively.

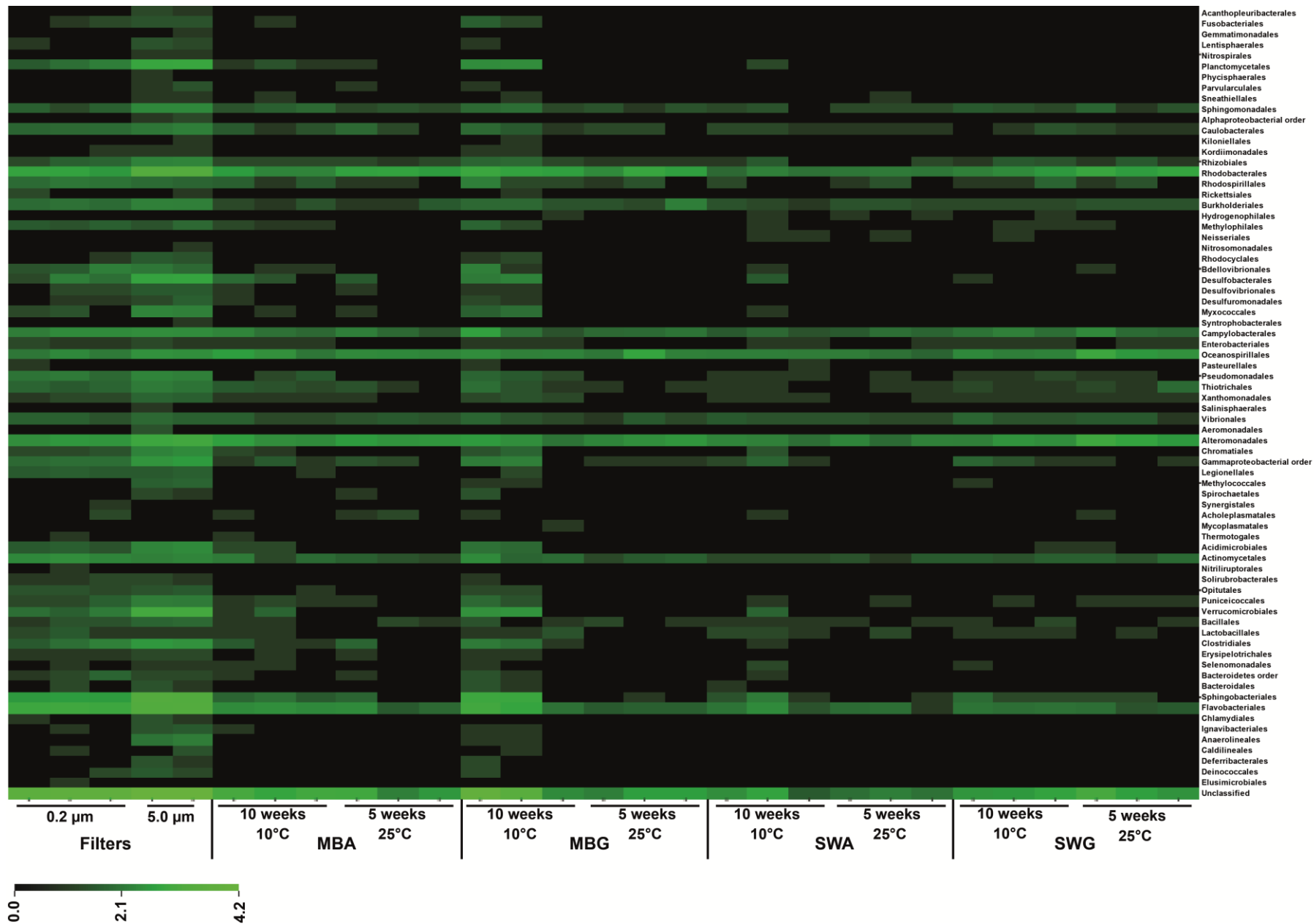


FIGURE S3 Heatmap displaying the relative OTU richness across samples in S1. The scale bar represents $\log_{10}+1$ transformed OTU richness.

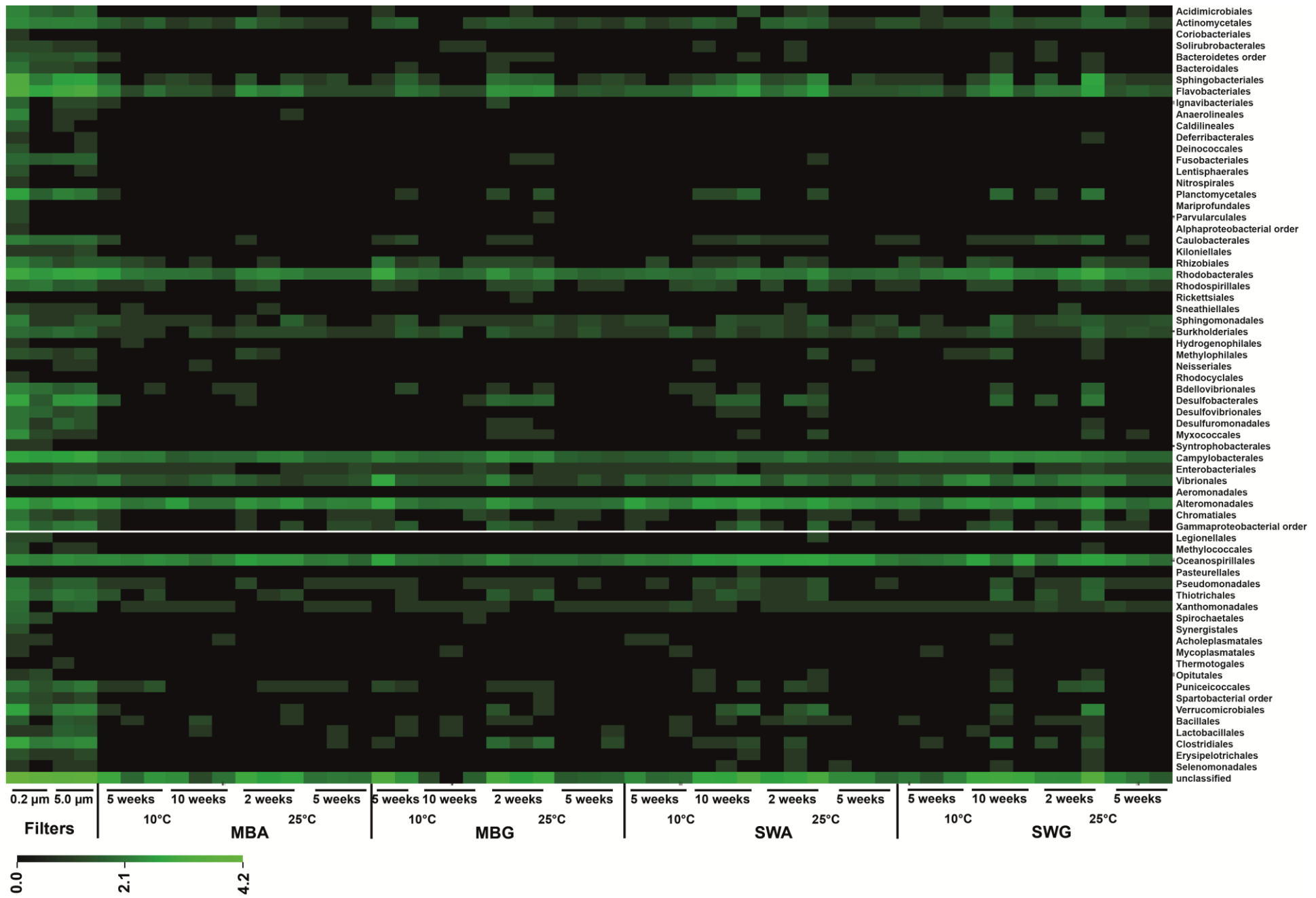


FIGURE S4 Heatmap displaying the relative OTU richness across samples in S2. The scale bar represents $\log_{10}+1$ transformed OTU richness.

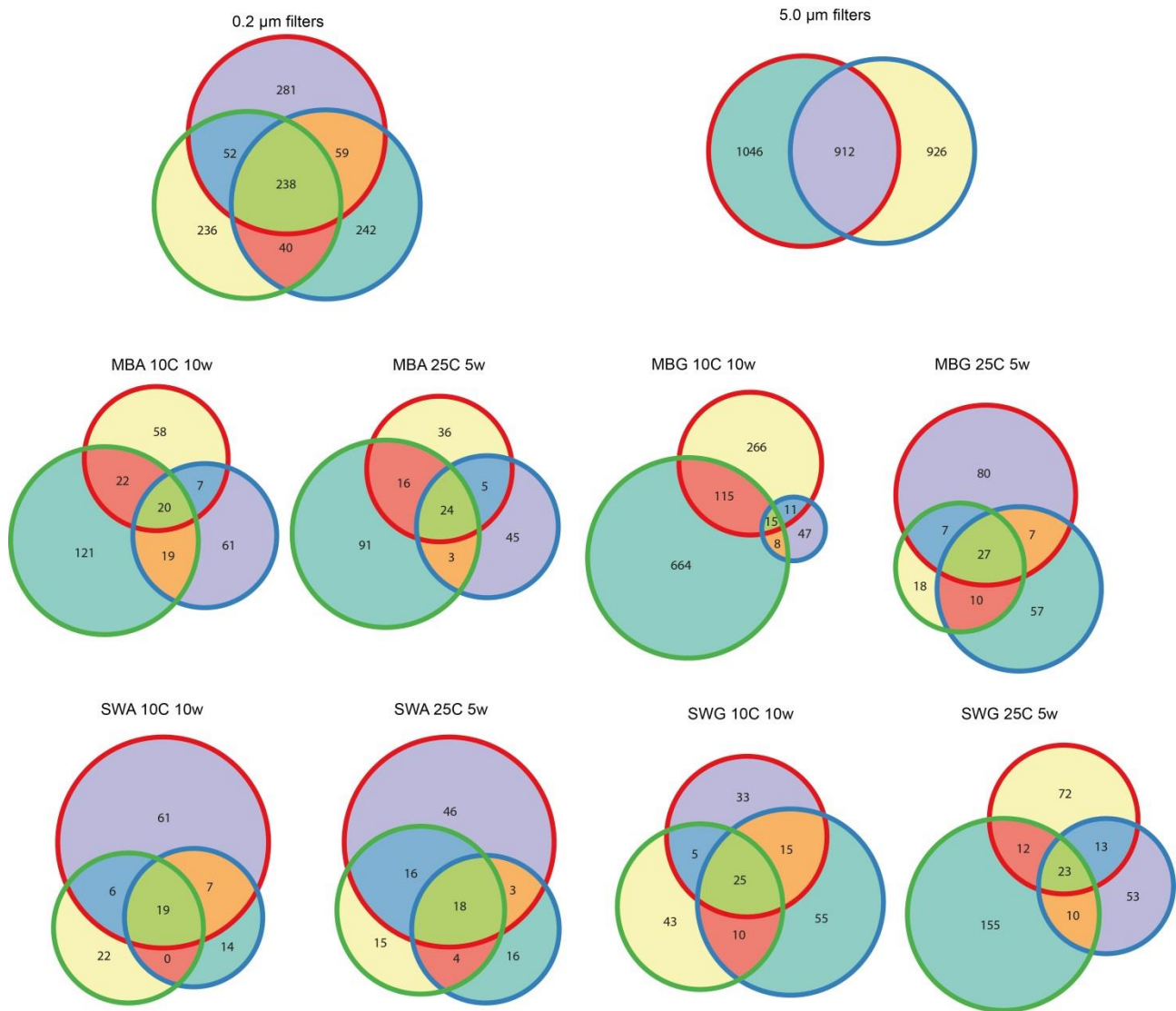


FIGURE S5 Weighted Venn diagrams showing the number of OTUs shared between replicates within each treatment during S1. Diagrams are only weighted within treatments.

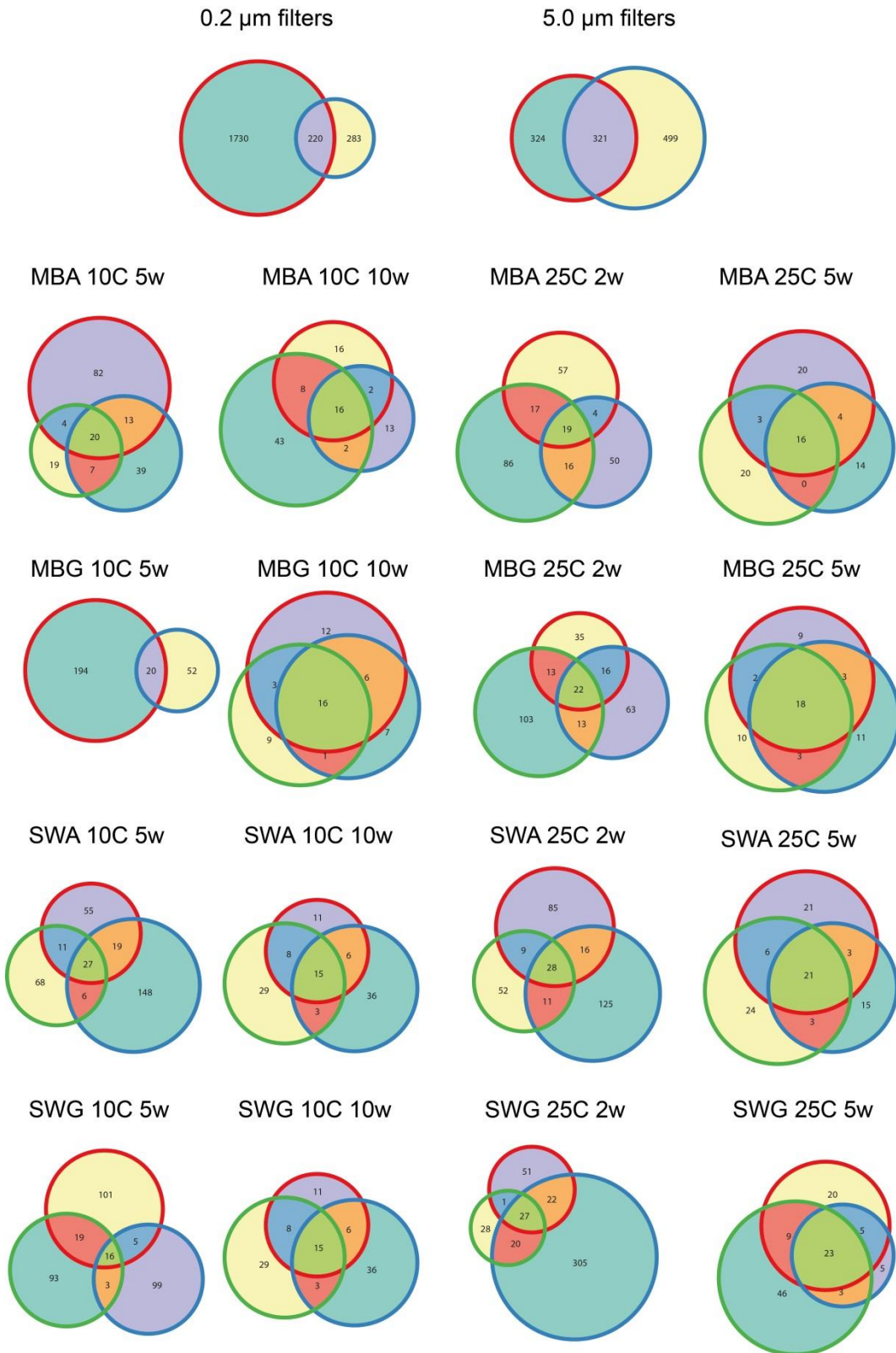


FIGURE S6 Weighted Venn diagrams showing the number of OTUs shared between replicates within each treatment during S2, excluding communities from plates supplemented with AHLs. Diagrams are only weighted within treatments.

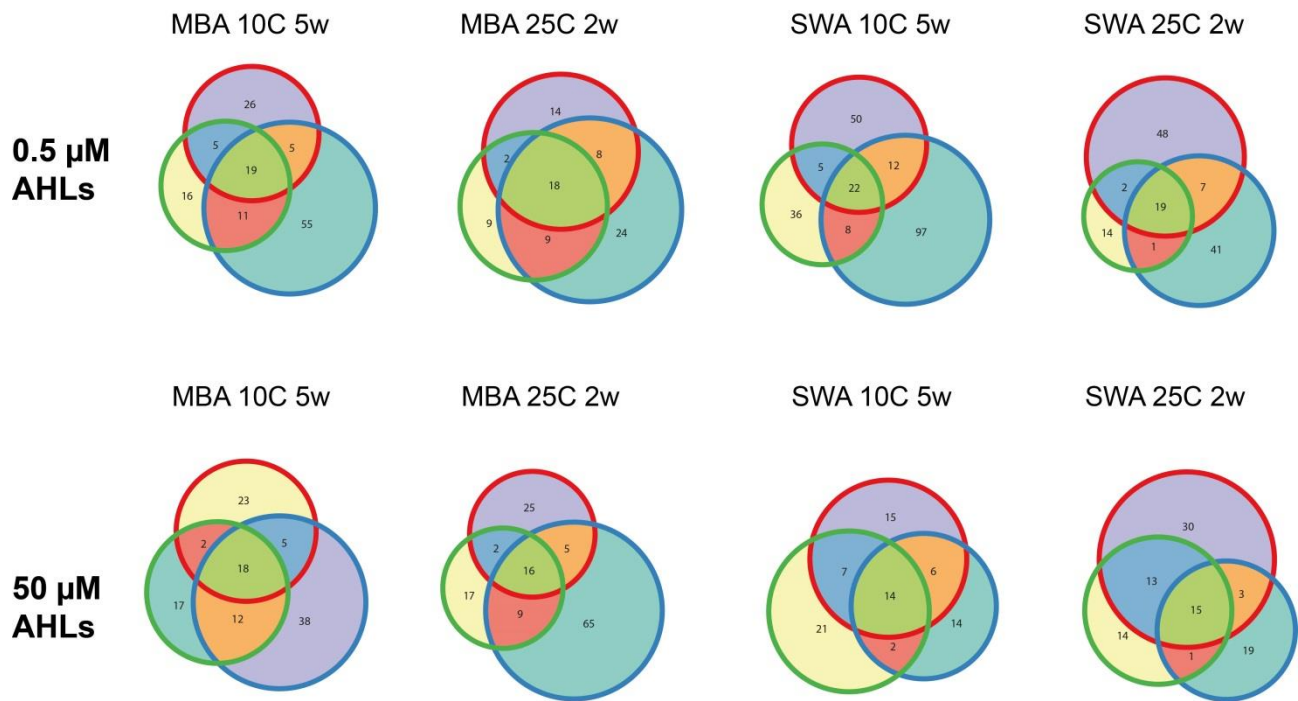


FIGURE S7 Venn diagrams showing the number of OTUs shared between replicates within each of the AHL-supplemented treatments during S2. Diagrams are only weighted within treatments.