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Numbers Sheet Name	Numbers Table Name	Excel Worksheet Name
Figure1		
	“Novel oil-associated bacteria in Arctic seawater exposed to different nutrient biostimulation regimes” Supplementary Table S1: Statistical Analysis	Figure1 - “Novel oil-associated
Figure2		
	“Novel oil-associated bacteria in Arctic seawater exposed to different nutrient biostimulation regimes” Supplementary Table S1: Statistical Analysis	Figure2 - “Novel oil-associated
Figure3a		
	Table 1	Figure3a
Figure3b		
	Figure 3: Differential abundance analysis identifies microbial markers for oil-contaminated microcosms.	Figure3b - Figure 3_Differenti
Figure3c		
	Figure 3: Differential abundance analysis identifies microbial markers for oil-contaminated microcosms.	Figure3c - Figure 3_Differenti
Figure4		
	Table 1	Figure4

Figure 3: Differential abundance analysis identifies microbial markers for oil-contaminated microcosms

Figure 3a	High nutrients	Package microbiomeMarker	run_test_two_groups		
	feature	enrich_group	ef_diff_mean	pvalue	padj
marker1	ASV2	CRD	313446.938	0.004995005	0.010822
marker2	ASV3	CRD	13017528.688	0.000999001	0.002405
marker3	ASV4	CRD	45093952.250	0.002997003	0.006835
marker4	ASV5	CRD	540669.062	0.001998002	0.004638
marker5	ASV6	CRD	1489720.438	0.000999001	0.002405
marker6	ASV7	CRD	2150308.375	0.007992008	0.015741
marker7	ASV8	CRD	139642.625	0.007992008	0.015741
marker8	ASV10	CRD	2342310.250	0.016983017	0.031095
marker9	ASV15	CRD	139745.250	0.007992008	0.015741
marker10	ASV16	UNMND	-191754.500	0.000999001	0.002405
marker11	ASV29	UNMND	-5976.500	0.000999001	0.002405
marker12	ASV30	CRD	95877.250	0.007992008	0.015741
marker13	ASV36	CRD	97629.375	0.006993007	0.014903
marker14	ASV42	CRD	178828.375	0.016983017	0.031095
marker15	ASV46	UNMND	-30104.875	0.000999001	0.002405
marker16	ASV49	UNMND	-23612.750	0.000999001	0.002405
marker17	ASV51	UNMND	-606.625	0.000999001	0.002405
marker18	ASV53	CRD	46467.438	0.025974026	0.045021
marker19	ASV55	CRD	71231.688	0.004995005	0.010822
marker20	ASV59	CRD	1719521.000	0.008991009	0.017445
marker21	ASV63	UNMND	-15718.750	0.000999001	0.002405
marker22	ASV66	CRD	1566410.812	0.007992008	0.015741
marker23	ASV73	UNMND	-6407.500	0.000999001	0.002405
marker24	ASV75	CRD	770.875	0.026973027	0.045538
marker25	ASV80	UNMND	-1744.625	0.000999001	0.002405
marker26	ASV84	CRD	34993.500	0.024975025	0.044476
marker27	ASV85	UNMND	-1678.875	0.000999001	0.002405
marker28	ASV87	UNMND	-4014.875	0.000999001	0.002405
marker29	ASV90	UNMND	-1374.375	0.000999001	0.002405
marker30	ASV94	UNMND	-2741.875	0.000999001	0.002405
marker31	ASV96	UNMND	-17086.125	0.000999001	0.002405
marker32	ASV100	CRD	12479.875	0.000999001	0.002405
marker33	ASV101	CRD	76095.500	0.003996004	0.008956
marker34	ASV107	UNMND	-734.250	0.000999001	0.002405
marker35	ASV109	CRD	445262.688	0.001998002	0.004638
marker36	ASV110	CRD	1871.438	0.026973027	0.045538
marker37	ASV112	CRD	51010.688	0.025974026	0.045021
marker38	ASV118	UNMND	-915.250	0.000999001	0.002405
marker39	ASV130	UNMND	-4144.125	0.000999001	0.002405
marker40	ASV133	CRD	446078.375	0.000999001	0.002405
marker41	ASV134	CRD	973326.688	0.010989011	0.020703
marker42	ASV138	UNMND	-699.625	0.000999001	0.002405
marker43	ASV144	UNMND	-1662.000	0.000999001	0.002405
marker44	ASV148	CRD	209242.312	0.024975025	0.044476
marker45	ASV151	UNMND	-2032.250	0.000999001	0.002405
marker46	ASV155	UNMND	-1033.500	0.000999001	0.002405
marker47	ASV163	UNMND	-604.500	0.000999001	0.002405
marker48	ASV172	UNMND	-919.500	0.000999001	0.002405
marker49	ASV174	UNMND	-2588.000	0.000999001	0.002405
marker50	ASV175	UNMND	-843.625	0.000999001	0.002405
marker51	ASV179	UNMND	-2223.625	0.000999001	0.002405
marker52	ASV180	UNMND	-184.875	0.000999001	0.002405
marker53	ASV181	UNMND	-1656.500	0.000999001	0.002405
marker54	ASV188	UNMND	-1418.750	0.000999001	0.002405
marker55	ASV189	UNMND	-847.125	0.000999001	0.002405
marker56	ASV191	UNMND	-1092.875	0.000999001	0.002405

Figure 3: Differential abundance analysis identifies microbial markers for oil-contaminated microcosms.

[illegible]

Figure 3: Differential abundance analysis identifies microbial markers for oil-contaminated microcosms.

Figure 3c	Low Nutrienets	Package: microbiomeMarker	run_two_test_groups		
	feature	enrich_group	ef_diff_mean	pvalue	padj
marker1	ASV4	UNMND	-13165.56944	0.014985015	0.039817
marker2	ASV6	CRD	16901.94444	0.004995005	0.015484
marker3	ASV7	CRD	24380.8125	0.003996004	0.013039
marker4	ASV9	UNMND	-424304.0625	0.010989011	0.030969
marker5	ASV11	CRD	28508	0.005994006	0.018276
marker6	ASV18	CRD	4319.34722	0.008991009	0.02613
marker7	ASV20	UNMND	-61035.90972	0.000999001	0.003953
marker8	ASV28	CRD	39612.75	0.004995005	0.015484
marker9	ASV29	UNMND	-34601.29167	0.000999001	0.003953
marker10	ASV30	CRD	23245.375	0.001998002	0.007146
marker11	ASV35	UNMND	-3023.83333	0.000999001	0.003953
marker12	ASV38	CRD	6972.5	0.000999001	0.003953
marker13	ASV45	UNMND	-17442.85417	0.000999001	0.003953
marker14	ASV47	CRD	10837.125	0.008991009	0.02613
marker15	ASV49	UNMND	-17070.40278	0.000999001	0.003953
marker16	ASV53	CRD	3029.5625	0.014985015	0.039817
marker17	ASV60	UNMND	-28059.55556	0.000999001	0.003953
marker18	ASV63	UNMND	-5790.13889	0.001998002	0.007146
marker19	ASV69	UNMND	-94086.33333	0.000999001	0.003953
marker20	ASV75	UNMND	-43567.33333	0.000999001	0.003953
marker21	ASV80	UNMND	-11681.66667	0.000999001	0.003953
marker22	ASV85	UNMND	-6155.77778	0.000999001	0.003953
marker23	ASV86	UNMND	-2905.55556	0.000999001	0.003953
marker24	ASV87	UNMND	-6773.04167	0.000999001	0.003953
marker25	ASV89	UNMND	-39979.66667	0.000999001	0.003953
marker26	ASV90	UNMND	-8691.16667	0.001998002	0.007146
marker27	ASV93	CRD	471.25	0.001998002	0.007146
marker28	ASV97	CRD	82.5	0.014985015	0.039817
marker29	ASV101	CRD	972.25	0.004995005	0.015484
marker30	ASV102	UNMND	-19551.80556	0.003996004	0.013039
marker31	ASV117	UNMND	-19717.48611	0.000999001	0.003953
marker32	ASV128	CRD	2575.8125	0.003996004	0.013039
marker33	ASV129	UNMND	-3641.44444	0.000999001	0.003953
marker34	ASV138	UNMND	-1834.11111	0.000999001	0.003953
marker35	ASV144	UNMND	-4742.77778	0.000999001	0.003953
marker36	ASV151	CRD	803.5	0.002997003	0.010517
marker37	ASV169	CRD	468.03472	0.00999001	0.028586
marker38	ASV170	CRD	183.125	0.000999001	0.003953
marker39	ASV175	UNMND	-1200.33333	0.000999001	0.003953
marker40	ASV176	UNMND	-13281.33333	0.000999001	0.003953
marker41	ASV177	UNMND	-1298.11111	0.000999001	0.003953
marker42	ASV179	UNMND	-2371	0.000999001	0.003953
marker43	ASV189	UNMND	-5506	0.000999001	0.003953
marker44	ASV193	UNMND	-951.88889	0.000999001	0.003953
marker45	ASV199	UNMND	-396.55556	0.000999001	0.003953
marker46	ASV203	CRD	1027.5625	0.011988012	0.03328
marker47	ASV204	UNMND	-1438.11111	0.000999001	0.003953
marker48	ASV211	CRD	103	0.001998002	0.007146
marker49	ASV212	UNMND	-7523	0.000999001	0.003953
marker50	ASV230	CRD	744.0625	0.000999001	0.003953
marker51	ASV237	UNMND	-5058.55556	0.000999001	0.003953
marker52	ASV242	UNMND	-1327.77778	0.000999001	0.003953
marker53	ASV246	CRD	46.0625	0.008991009	0.02613
marker54	ASV253	CRD	913	0.003996004	0.013039
marker55	ASV273	UNMND	-4362.66667	0.000999001	0.003953
marker56	ASV281	UNMND	-4413.99306	0.000999001	0

Figure 4. Microbial trophic strategies revealed through inferred community-weighted changes in genomic traits driven by nutrient supply in the presence of crude oil.								
Figure4a	Coding DNA sequences							
Media	.y.	group1	group2	p	p.adj	p.format	p.signif	method
ONR7a	ncds.mean	5weeks	10weeks	0.0173160173160173	0.14	0.0173	*	Wilcoxon
ONR7a	ncds.mean	5weeks	15weeks	0.0086580086580086	0.078	0.0087	**	Wilcoxon
ONR7a	ncds.mean	10weeks	15weeks	0.547619047619048	1	0.5476	ns	Wilcoxon
PSW	ncds.mean	5weeks	10weeks	1	1	1	ns	Wilcoxon
PSW	ncds.mean	5weeks	15weeks	0.536796536796537	1	0.5368	ns	Wilcoxon
PSW	ncds.mean	10weeks	15weeks	0.420634920634921	1	0.4206	ns	Wilcoxon
RSS	ncds.mean	5weeks	10weeks	0.0173160173160173	0.14	0.0173	*	Wilcoxon
RSS	ncds.mean	5weeks	15weeks	0.0173160173160173	0.14	0.0173	*	Wilcoxon
RSS	ncds.mean	10weeks	15weeks	0.841269841269841	1	0.8413	ns	Wilcoxon
Figure 4b	Community mean genome size							
Media	.y.	group1	group2	p	p.adj	p.format	p.signif	method
ONR7a	genome_size.mean	5weeks	10weeks	0.0822510822510823	0.58	0.0823	ns	Wilcoxon
ONR7a	genome_size.mean	5weeks	15weeks	0.0822510822510823	0.58	0.0823	ns	Wilcoxon
ONR7a	genome_size.mean	10weeks	15weeks	1	1	1	ns	Wilcoxon
PSW	genome_size.mean	5weeks	10weeks	0.662337662337662	1	0.6623	ns	Wilcoxon
PSW	genome_size.mean	5weeks	15weeks	0.662337662337662	1	0.6623	ns	Wilcoxon
PSW	genome_size.mean	10weeks	15weeks	1	1	1	ns	Wilcoxon
RSS	genome_size.mean	5weeks	10weeks	0.0086580086580086	0.078	0.0087	**	Wilcoxon
RSS	genome_size.mean	5weeks	15weeks	0.0173160173160173	0.14	0.0173	*	Wilcoxon
RSS	genome_size.mean	10weeks	15weeks	0.841269841269841	1	0.8413	ns	Wilcoxon
Figure 4c	Commnubity mean GC content							
Media	.y.	group1	group2	p	p.adj	p.format	p.signif	method
ONR7a	GC.mean	5weeks	10weeks	0.0173160173160173	0.14	0.0173	*	Wilcoxon
ONR7a	GC.mean	5weeks	15weeks	0.0043290043290043	0.039	0.0043	**	Wilcoxon
ONR7a	GC.mean	10weeks	15weeks	0.547619047619048	1	0.5476	ns	Wilcoxon
PSW	GC.mean	5weeks	10weeks	0.0822510822510823	0.49	0.0823	ns	Wilcoxon
PSW	GC.mean	5weeks	15weeks	0.0303030303030303	0.21	0.0303	*	Wilcoxon
PSW	GC.mean	10weeks	15weeks	0.30952380952381	1	0.3095	ns	Wilcoxon
RSS	GC.mean	5weeks	10weeks	0.662337662337662	1	0.6623	ns	Wilcoxon
RSS	GC.mean	5weeks	15weeks	0.246753246753247	1	0.2468	ns	Wilcoxon
RSS	GC.mean	10weeks	15weeks	0.547619047619048	1	0.5476	ns	Wilcoxon
NOTE:								
ONR7a = High Nutrients								
PSW = 2x Pasteurized								
RSS = Red Sea Salt								