Evidence for a bacterial mechanism for group-specific social odors among hyenas
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Supplementary Table S1. Variation in the production of volatile short-chain fatty acids (SCFA) as end products of fermentation by nearest relatives of prominent bacteria inhabiting the anal scent pouches of spotted hyenas.

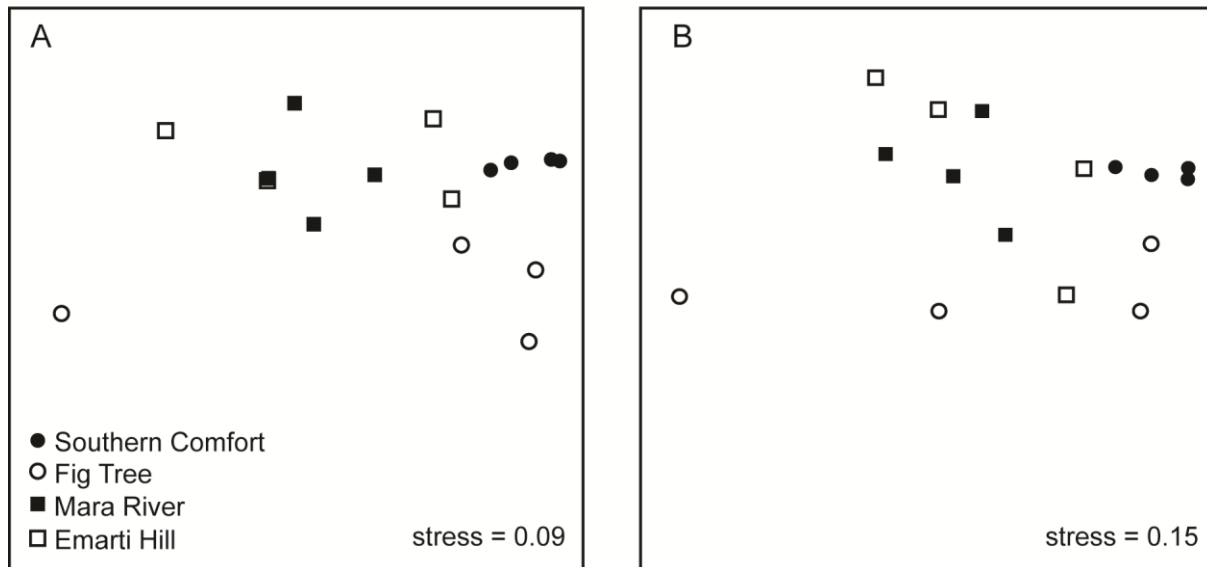| Genus	Short-chain fatty acids						
	acetic	propionic	butyric	isobutyric	valeric	isovaleric	caproic
Anaerococcus[Ø]	-	m	+	-	-	-	v
Anaerovorax[Ø]	+	-	+	-	-	-	-
Corynebacterium	+	v	-	-	-	-	-
Eubacterium[Ø]	+	-	v	v	-	v	v
Fastidiosipila	+	-	+	-	-	-	-
Helcococcus	+	-	-	-	-	-	-
Porphyromonas[Ø]	+	+	+	m	-	m	-
Propionibacterium	+	+	-	-	-	-	-

Ø: obligate anaerobes (others are facultative anaerobes); + : respective SCFA is a typical fermentative end product for genus members; v : production of the respective SCFA varies among genus members; m : respective SCFA is a consistent, yet minor, fermentative end product for genus members; - : respective SCFA is not a known fermentative end product for genus members[1-10].

Supplementary Table S2. Results of ANOSIM analyses evaluating variation in the composition (Sorensen Index) and structure (Bray-Curtis Index) of scent pouch bacterial communities among spotted hyena social groups (i.e. clans) using 90 and 98% sequence similarity cutoffs for operational taxonomic unit (OTU) formation.
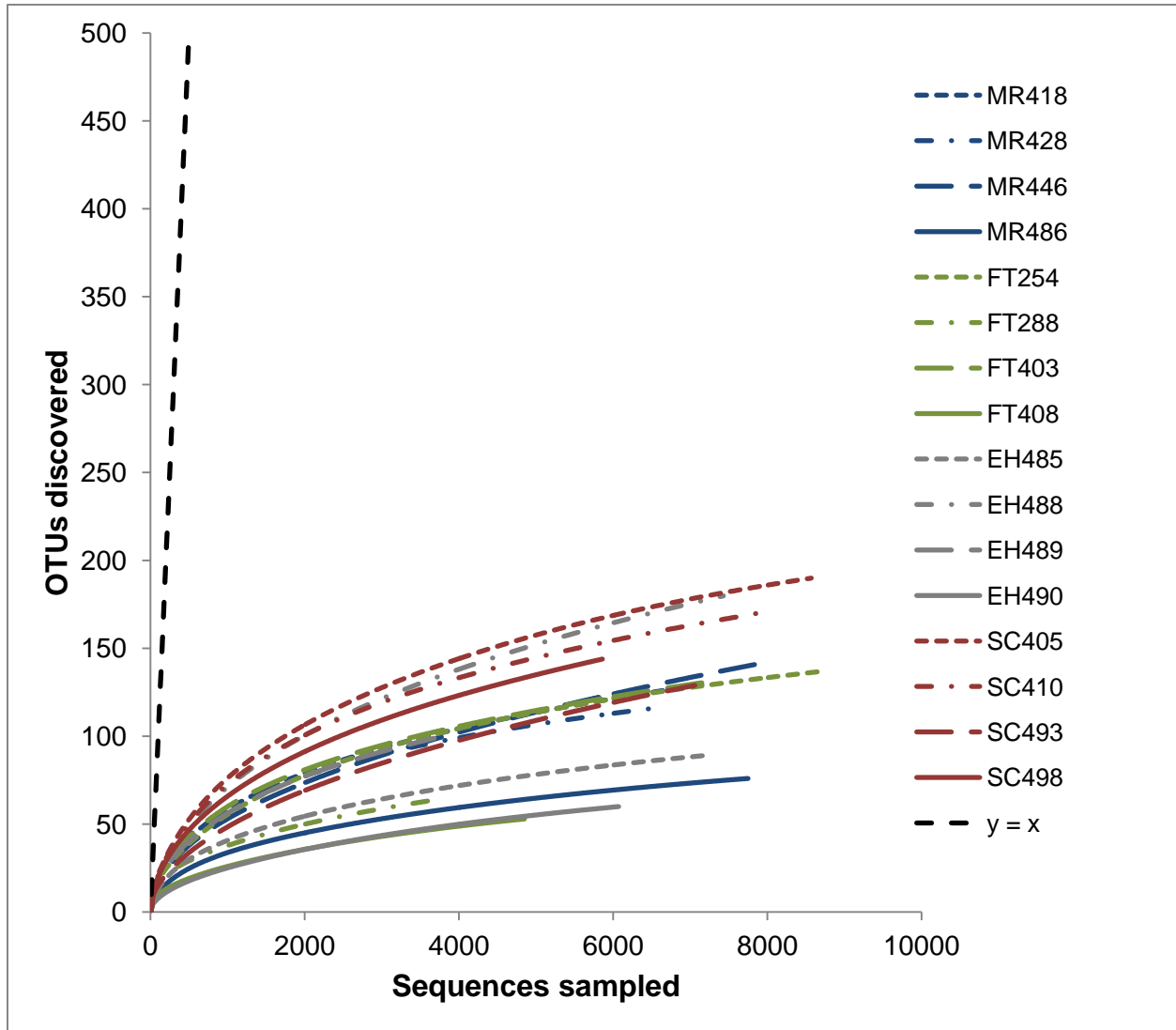
	90% sequence similarity cutoff		98% sequence similarity cutoff	
	Sorensen Index	**Bray-Curtis Index**	**Sorensen Index**	**Bray-Curtis Index**
Global effect	**R = 0.07, P = 0.193**	**R = 0.42, *P* < 0.001**	**R = 0.16, *P* = 0.040**	**R = 0.34, *P* = 0.006**
SC vs. MR	n/a	R = 0.98, *P* = 0.029	R = 0.43, *P* = 0.057	R = 0.92, *P* = 0.029
SC vs. FT	n/a	R = 0.51, *P* = 0.028	R = 0.19, *P* = 0.085	R = 0.41, *P* = 0.029
SC vs. EH	n/a	R = 0.43, *P* = 0.029	R = 0.31, *P* = 0.085	R = 0.50, *P* = 0.030
MR vs. FT	n/a	R = 0.48, *P* = 0.056	R = 0.04, *P* = 0.371	R = 0.34, *P* = 0.028
MR vs. EH	n/a	R = 0.01, *P* = 0.428	R =-0.05, *P* = 0.604	R =-0.19, *P* = 0.888
FT vs. EH	n/a	R = 0.15, *P* = 0.168	R =-0.01, *P* = 0.516	R = 0.06, *P* = 0.283

SC = Southern Comfort, MR = Mara River, FT = Fig Tree, EH = Emarti Hill

Supplementary Figure S3. Nonmetric multidimensional scaling (NMS) plots illustrating variation in the structure of scent pouch bacterial communities among hyena clans. The plots were based on the Bray-Curtis similarity index using A) 90 and B) 98% sequence similarity cutoffs. The X and Y axes were symmetrical in each plot.

Supplementary Figure S4. Rarefaction curves illustrating sample coverage for the 16 sampled hyenas. To afford resolution among samples the y-axis was condensed. Therefore, to provide perspective for gauging the degree to which individual curves have plateaued, the function y = x is also shown. In other words, if the y-axis were scaled identically to the x-axis, all curves would exhibit definitive plateaus.

Supplementary Information S5. The following is a list of the dereplicated sequences for each of the 403 OTUs in this study, as well as the average percent abundance and standard deviation of each OTU among the 16 sampled spotted hyenas. All 403 sequences are available in a supplementary fasta-formatted file (S6). The sequences have also been deposited on GenBank (JX051873 - JX052266). Nine sequences were, however, filtered and removed by GenBank based on a BLAST similarity search analysis (GM2GI8201AX8K7, GM2GI8201D27UP, GM2GI8201C500Q, GM2GI8201BAHPE, GM2GI8201C61XZ, GM2GI8201C90UY, GM2GI8201D7WWN, GM2GI8201EO61I, GM2GI8201EE559). These sequences represented very minor OTUs, and the experimental removal of data associated with these OTUs did not affect analyses presented in this study.

OTU	Representative Sequence	Average percent abundance among samples	SD
9	GM2GI8201CQYBD	24.3968	9.3868
7	GM2GI8201CLUE0	15.8818	15.5886
1	GM2GI8201DDCSF	14.1305	13.2030
6	GM2GI8201CRBCE	8.1715	10.1699
4	GM2GI8201DNRN3	6.9168	6.9241
21	GM2GI8201ERK6Q	4.8677	4.1006
63	GM2GI8201D2HAV	4.0738	6.3124
11	GM2GI8201AYBUR	2.9499	2.2596
55	GM2GI8201DJS24	2.2885	5.3527
24	GM2GI8201EA65P	2.1143	2.9485
15	GM2GI8201EV6VM	1.3198	1.5775
16	GM2GI8201B8GJO	1.2082	3.6380
65	GM2GI8201E3146	0.8697	0.9624
36	GM2GI8201EU6AD	0.8149	0.8611
5	GM2GI8201D1JDQ	0.7253	0.8000
387	GM2GI8201EM1MO	0.6121	0.8740
13	GM2GI8201EUJNN	0.3523	0.3137
14	GM2GI8201EDE2F	0.3045	0.3095
70	GM2GI8201DKNKN	0.2975	0.2406
18	GM2GI8201DLIU2	0.2743	0.1923
23	GM2GI8201DM296	0.2565	0.1543
908	GM2GI8201DHKQV	0.2466	0.9717
61	GM2GI8201BMZIH	0.2226	0.1335
1392	GM2GI8201A3V3X	0.2007	0.8028
12	GM2GI8201C6OQV	0.1852	0.1738
1068	GM2GI8201AKMCE	0.1811	0.7202
48	GM2GI8201CL404	0.1608	0.1248
44	GM2GI8201DZ2I5	0.1578	0.2837
179	GM2GI8201BFYZP	0.1493	0.5419
57	GM2GI8201BC8L8	0.1490	0.1736
115	GM2GI8201A1FS1	0.1246	0.2230
124	GM2GI8201BCPGY	0.1172	0.1034
282	GM2GI8201C4UXV	0.1157	0.2154
28	GM2GI8201A08OI	0.1138	0.1123
119	GM2GI8201CXC6T	0.1111	0.1504
74	GM2GI8201B561P	0.1073	0.1498

25	GM2GI8201CRHFT	0.0985	0.1314
85	GM2GI8201DF482	0.0926	0.2367
429	GM2GI8201CINU6	0.0920	0.1323
393	GM2GI8201DWXLX	0.0859	0.2703
133	GM2GI8201EOO6X	0.0841	0.1791
58	GM2GI8201DKFTR	0.0829	0.0623
892	GM2GI8201A64RC	0.0818	0.2738
459	GM2GI8201ARFYS	0.0797	0.1721
118	GM2GI8201A5437	0.0793	0.0880
453	GM2GI8201AOWRR	0.0766	0.2171
100	GM2GI8201A4KUJ	0.0759	0.0793
160	GM2GI8201CL55L	0.0750	0.2207
90	GM2GI8201DT1FM	0.0750	0.0658
10	GM2GI8201EVFBL	0.0750	0.0663
95	GM2GI8201CSLZF	0.0746	0.0986
212	GM2GI8201CMZRX	0.0708	0.1334
22	GM2GI8201ANBNR	0.0686	0.0671
1029	GM2GI8201DPR3F	0.0681	0.2351
71	GM2GI8201BNF2M	0.0644	0.0726
210	GM2GI8201DOPZW	0.0599	0.0664
51	GM2GI8201BM975	0.0567	0.0499
69	GM2GI8201CQZUZ	0.0530	0.0488
456	GM2GI8201BF97J	0.0529	0.1333
255	GM2GI8201CG2XI	0.0523	0.1720
214	GM2GI8201CPQB2	0.0516	0.1779
81	GM2GI8201DIV9G	0.0515	0.0576
929	GM2GI8201C1CUO	0.0502	0.1753
41	GM2GI8201CFEBE	0.0483	0.0509
489	GM2GI8201AXNPK	0.0474	0.0615
281	GM2GI8201D17S6	0.0454	0.0619
389	GM2GI8201ED5ES	0.0447	0.0711
56	GM2GI8201AECWQ	0.0437	0.0572
59	GM2GI8201D3LZ3	0.0423	0.0614
1025	GM2GI8201C4U99	0.0422	0.1644
173	GM2GI8201EJGYV	0.0412	0.1145
219	GM2GI8201A9C88	0.0397	0.0492
906	GM2GI8201DDH68	0.0382	0.1491
276	GM2GI8201E2HFL	0.0378	0.0850
140	GM2GI8201AMX2Q	0.0346	0.0511
157	GM2GI8201EFF89	0.0336	0.1346
172	GM2GI8201D1AEY	0.0331	0.0701
106	GM2GI8201BN1R8	0.0322	0.0219
82	GM2GI8201ESY6A	0.0317	0.0336
153	GM2GI8201BB0V9	0.0312	0.0595
419	GM2GI8201DIJFD	0.0311	0.0504
149	GM2GI8201A76FJ	0.0299	0.0310
460	GM2GI8201ES7FI	0.0295	0.0852
78	GM2GI8201A4RU1	0.0294	0.0325
49	GM2GI8201BG5X9	0.0284	0.0472
476	GM2GI8201DPUQN	0.0282	0.0516
433	GM2GI8201CSCVD	0.0272	0.0437

177	GM2GI8201AYBN6	0.0264	0.0685
155	GM2GI8201BE5C4	0.0262	0.0938
321	GM2GI8201ATG8K	0.0259	0.0413
388	GM2GI8201CHGJ1	0.0255	0.0346
905	GM2GI8201ELOSB	0.0254	0.0817
249	GM2GI8201A4EW0	0.0251	0.0323
62	GM2GI8201AQHJS	0.0250	0.0213
181	GM2GI8201DSG4T	0.0248	0.0631
359	GM2GI8201CXX7D	0.0244	0.0328
243	GM2GI8201CPIH1	0.0239	0.0359
275	GM2GI8201BQOBI	0.0234	0.0873
154	GM2GI8201EU11F	0.0233	0.0873
406	GM2GI8201B5DO2	0.0222	0.0515
89	GM2GI8201DGMIQ	0.0219	0.0243
135	GM2GI8201DQFR0	0.0218	0.0250
399	GM2GI8201BCE7B	0.0212	0.0597
83	GM2GI8201DQ01C	0.0211	0.0261
47	GM2GI8201B6JOT	0.0209	0.0316
466	GM2GI8201BKPEV	0.0203	0.0410
170	GM2GI8201D14DN	0.0199	0.0420
1398	GM2GI8201EV3FJ	0.0180	0.0720
339	GM2GI8201BU9PV	0.0179	0.0261
463	GM2GI8201DUZC3	0.0178	0.0458
66	GM2GI8201AQG3K	0.0176	0.0203
521	GM2GI8201AQZMR	0.0172	0.0332
391	GM2GI8201DMQL7	0.0166	0.0192
570	GM2GI8201ASEWO	0.0164	0.0333
298	GM2GI8201B5EZ7	0.0162	0.0476
417	GM2GI8201AX8K7	0.0161	0.0295
475	GM2GI8201AORZA	0.0160	0.0277
68	GM2GI8201C61XZ	0.0160	0.0256
357	GM2GI8201DE239	0.0158	0.0208
293	GM2GI8201EXS9C	0.0158	0.0233
259	GM2GI8201EUJCN	0.0155	0.0301
425	GM2GI8201DC5KE	0.0155	0.0255
270	GM2GI8201EDLQ2	0.0155	0.0250
439	GM2GI8201B1B7W	0.0154	0.0238
175	GM2GI8201DA3X4	0.0151	0.0494
435	GM2GI8201DRJYS	0.0149	0.0247
73	GM2GI8201DHEW3	0.0143	0.0147
253	GM2GI8201B7CB3	0.0139	0.0155
168	GM2GI8201CZCFH	0.0136	0.0324
324	GM2GI8201C2S5S	0.0135	0.0232
317	GM2GI8201AQAFO	0.0134	0.0292
407	GM2GI8201AGKGS	0.0133	0.0269
152	GM2GI8201CL5TR	0.0128	0.0335
233	GM2GI8201CWFM0	0.0128	0.0317
907	GM2GI8201BH90Q	0.0127	0.0406
303	GM2GI8201CQN9D	0.0123	0.0406
330	GM2GI8201EP22Y	0.0119	0.0408
346	GM2GI8201AWESU	0.0112	0.0199

310	GM2GI8201AVIOF	0.0112	0.0294
605	GM2GI8201A7MME	0.0110	0.0219
442	GM2GI8201B3DAY	0.0109	0.0167
103	GM2GI8201D7WWN	0.0105	0.0163
900	GM2GI8201DRBK9	0.0104	0.0342
308	GM2GI8201A1KK0	0.0102	0.0338
88	GM2GI8201BLSVR	0.0102	0.0307
166	GM2GI8201AWYD7	0.0101	0.0295
116	GM2GI8201E4NFQ	0.0101	0.0170
493	GM2GI8201DUD95	0.0100	0.0232
395	GM2GI8201D0REA	0.0099	0.0155
520	GM2GI8201BVUW9	0.0095	0.0167
426	GM2GI8201BZ8C9	0.0094	0.0180
899	GM2GI8201AZRDJ	0.0093	0.0130
468	GM2GI8201C3BVK	0.0093	0.0104
127	GM2GI8201CEMBS	0.0093	0.0135
514	GM2GI8201BWU56	0.0093	0.0143
191	GM2GI8201DGH1S	0.0093	0.0226
1556	GM2GI8201AM7NX	0.0091	0.0261
428	GM2GI8201BQE90	0.0091	0.0164
87	GM2GI8201CR3F5	0.0090	0.0140
1041	GM2GI8201B4HDO	0.0090	0.0248
162	GM2GI8201B1KG5	0.0089	0.0151
481	GM2GI8201DDBIX	0.0088	0.0256
349	GM2GI8201DXPGR	0.0087	0.0114
609	GM2GI8201CHTF8	0.0087	0.0135
1118	GM2GI8201D86XN	0.0085	0.0232
200	GM2GI8201EB2B4	0.0084	0.0127
499	GM2GI8201ETZ1A	0.0081	0.0182
416	GM2GI8201D6EHD	0.0080	0.0120
107	GM2GI8201DPFUW	0.0080	0.0109
502	GM2GI8201EPNCS	0.0079	0.0172
244	GM2GI8201D4HXP	0.0078	0.0129
542	GM2GI8201D4MQN	0.0077	0.0155
228	GM2GI8201DBLPC	0.0073	0.0116
1006	GM2GI8201BSM3X	0.0073	0.0230
238	GM2GI8201ATMFP	0.0072	0.0109
491	GM2GI8201CE2GZ	0.0072	0.0163
1145	GM2GI8201DI53J	0.0070	0.0207
982	GM2GI8201EC6D6	0.0068	0.0187
526	GM2GI8201CP1X3	0.0068	0.0118
469	GM2GI8201AOS8H	0.0068	0.0231
384	GM2GI8201BS408	0.0068	0.0149
296	GM2GI8201C65H1	0.0068	0.0136
246	GM2GI8201C2IQE	0.0068	0.0086
942	GM2GI8201A8RTD	0.0067	0.0145
537	GM2GI8201AJY37	0.0067	0.0269
510	GM2GI8201CFR8Z	0.0067	0.0210
922	GM2GI8201EW60P	0.0066	0.0202
269	GM2GI8201A54TO	0.0066	0.0128
143	GM2GI8201DQCBN	0.0065	0.0090

248	GM2GI8201CK2O7	0.0064	0.0092
313	GM2GI8201BM73V	0.0063	0.0154
525	GM2GI8201E381L	0.0062	0.0122
390	GM2GI8201DWDE2	0.0061	0.0143
148	GM2GI8201BJNPC	0.0059	0.0083
404	GM2GI8201BK1FF	0.0059	0.0113
454	GM2GI8201DHF5J	0.0059	0.0193
938	GM2GI8201ELV0M	0.0059	0.0193
218	GM2GI8201ARHK2	0.0058	0.0096
507	GM2GI8201CUYIZ	0.0058	0.0132
1032	GM2GI8201DDIGV	0.0057	0.0230
309	GM2GI8201DCAMH	0.0057	0.0093
53	GM2GI8201BHXTD	0.0056	0.0109
1064	GM2GI8201DRFL4	0.0056	0.0129
226	GM2GI8201CGJ4U	0.0056	0.0189
131	GM2GI8201EA6L4	0.0055	0.0106
484	GM2GI8201C500Q	0.0055	0.0191
449	GM2GI8201AXSRF	0.0055	0.0130
405	GM2GI8201APMI6	0.0054	0.0097
498	GM2GI8201D27UP	0.0054	0.0097
925	GM2GI8201BG5JN	0.0051	0.0170
980	GM2GI8201DDO61	0.0051	0.0170
195	GM2GI8201A0WUV	0.0050	0.0139
294	GM2GI8201CX4VQ	0.0050	0.0139
355	GM2GI8201C2SJP	0.0050	0.0138
474	GM2GI8201BDSKW	0.0049	0.0079
1416	GM2GI8201CX613	0.0048	0.0193
552	GM2GI8201B0JWB	0.0048	0.0095
1027	GM2GI8201DMU7W	0.0048	0.0191
1146	GM2GI8201DCE4X	0.0047	0.0156
444	GM2GI8201DCJWP	0.0047	0.0090
272	GM2GI8201CWUSH	0.0047	0.0130
1085	GM2GI8201DOW77	0.0047	0.0127
622	GM2GI8201AIYEM	0.0046	0.0101
445	GM2GI8201BL8EF	0.0046	0.0120
413	GM2GI8201DNM8X	0.0046	0.0120
267	GM2GI8201CS03K	0.0045	0.0089
710	GM2GI8201BW5XP	0.0044	0.0177
478	GM2GI8201CG7HC	0.0044	0.0068
252	GM2GI8201ETTHS	0.0044	0.0083
894	GM2GI8201AGP2N	0.0044	0.0110
560	GM2GI8201EDNEK	0.0044	0.0083
615	GM2GI8201AZEC2	0.0043	0.0095
990	GM2GI8201EWXWS	0.0043	0.0098
329	GM2GI8201D0LPC	0.0043	0.0097
1395	GM2GI8201DC9EM	0.0043	0.0120
27	GM2GI8201ATWBA	0.0043	0.0083
1151	GM2GI8201A15XN	0.0043	0.0137
112	GM2GI8201CQ99P	0.0042	0.0082
347	GM2GI8201BUH5D	0.0042	0.0138
302	GM2GI8201BUV42	0.0042	0.0137

322	GM2GI8201C1MIW	0.0042	0.0137
991	GM2GI8201EDK17	0.0041	0.0082
373	GM2GI8201BW2AS	0.0041	0.0080
344	GM2GI8201C2PS6	0.0041	0.0137
450	GM2GI8201A9ULM	0.0040	0.0130
271	GM2GI8201DT9LR	0.0040	0.0079
495	GM2GI8201DAEB5	0.0040	0.0159
933	GM2GI8201BD4IX	0.0039	0.0074
548	GM2GI8201A21T2	0.0039	0.0089
99	GM2GI8201CCHCL	0.0039	0.0095
420	GM2GI8201B6UQO	0.0039	0.0094
1087	GM2GI8201EONFA	0.0039	0.0125
33	GM2GI8201ETASU	0.0038	0.0073
530	GM2GI8201EO61I	0.0038	0.0108
592	GM2GI8201E5DTE	0.0038	0.0093
1055	GM2GI8201C4PMJ	0.0038	0.0153
1115	GM2GI8201C669W	0.0037	0.0119
1114	GM2GI8201ASEG9	0.0037	0.0093
411	GM2GI8201B6G1B	0.0037	0.0117
263	GM2GI8201CB0KG	0.0037	0.0117
443	GM2GI8201A3DFD	0.0036	0.0101
546	GM2GI8201AZC52	0.0036	0.0085
1034	GM2GI8201A5G3W	0.0036	0.0099
96	GM2GI8201AL2BB	0.0035	0.0063
1133	GM2GI8201B64NO	0.0035	0.0080
114	GM2GI8201A1KNX	0.0035	0.0063
1142	GM2GI8201A43CH	0.0035	0.0107
1431	GM2GI8201AHX3E	0.0034	0.0103
84	GM2GI8201ECO96	0.0034	0.0094
999	GM2GI8201COO17	0.0034	0.0105
161	GM2GI8201BPO78	0.0034	0.0092
316	GM2GI8201CSLGU	0.0034	0.0078
1552	GM2GI8201D5S2I	0.0034	0.0106
527	GM2GI8201ATHST	0.0033	0.0104
1057	GM2GI8201EEE61	0.0033	0.0071
512	GM2GI8201D677W	0.0033	0.0099
549	GM2GI8201EEB6Z	0.0033	0.0077
1363	GM2GI8201EWQ4E	0.0032	0.0103
190	GM2GI8201DMSVT	0.0032	0.0074
141	GM2GI8201D40A5	0.0032	0.0098
956	GM2GI8201DASMD	0.0032	0.0070
492	GM2GI8201DNWDK	0.0032	0.0058
462	GM2GI8201BQUXR	0.0032	0.0128
209	GM2GI8201AQ5TD	0.0031	0.0125
423	GM2GI8201AKMUR	0.0031	0.0070
1478	GM2GI8201DVE6C	0.0031	0.0097
497	GM2GI8201BAHPE	0.0030	0.0083
1446	GM2GI8201CYADZ	0.0030	0.0067
371	GM2GI8201DBBQ1	0.0030	0.0082
515	GM2GI8201C582P	0.0030	0.0091
261	GM2GI8201EN4NU	0.0030	0.0091

60	GM2GI8201EZ0EW	0.0029	0.0087
947	GM2GI8201BSAPO	0.0029	0.0063
1168	GM2GI8201EO7NL	0.0029	0.0090
199	GM2GI8201B1KFC	0.0029	0.0078
91	GM2GI8201E27FT	0.0028	0.0079
1143	GM2GI8201APIV4	0.0028	0.0060
962	GM2GI8201CQG7G	0.0027	0.0058
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Supplementary Information S6. Fasta-formatted file of the dereplicated sequences for each of the 403 OTUs in this study.

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