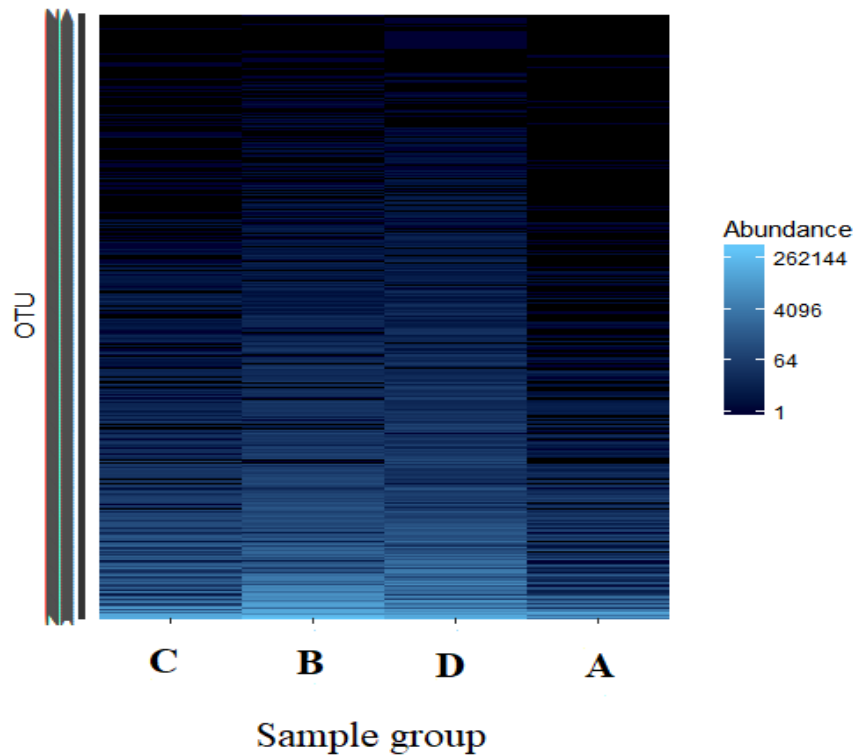


## Metataxonomics contributes to unravel the microbiota of a Brazilian dairy

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### SUPPLEMENTARY FILE

**Supplementary Figure S1.** Abundance of 16S rDNA reads by sample groups of raw material, final product, food-contact surfaces and non-food contact surfaces from a Brazilian Dairy (São Paulo state 5), according to results of Illumina<sup>®</sup> MiSeq system.



Sampling date	Number of Samples per category				Total
	Raw	Final	Food-contact	Non-Food Contact	
	Material	Product		Surface	
January 2014	3	3	7	6	19
February 2014	3	9	3	4	19
March 2014	3	13	10	4	30
July 2014	3	4	7	8	22
Total	12	29	27	22	90

**Supplementary Table S1.** Number of samples separated per category belonging to raw material, final product, food-contact surfaces and non-food contact surfaces obtained in a Brazilian Dairy (São Paulo state 5)

1

2 **Supplementary Table S2**

3 Word file prepared based on Illumina® BaseSpace pipeline showing the read counts per grouped sample and the identified OTUs from raw material,  
4 final product, food-contact surfaces and non-food contact surfaces from a Brazilian Dairy (São Paulo state 5).

5

Genus	B	D	B	C	C	D	B	D	B	D	C	A	B	A	C	B
Psychrobacter	7426	59224	11964	450498	796	19247	1287	72404	139049	177991	311953	245473	300919	113971	1621	68423
Lactococcus	1071	82859	351963	15503	114162	90123	223727	1721	1037	1360	983	2777	4105	752	3944	2101
Bacillus	121	25195	691	3640	635	44507	88351	713	95	26143	173	1438	104012	117776	244456	5812
Enterococcus	192579	7215	9153	866	3307	9407	16347	16474	6454	40724	428	18655	41847	24341	85580	7419
Halomonas	32017	59398	12958	20671	33079	37015	167	4336	129378	10596	30022	2240	10403	182	158	52646
Chromohalobacter	573	422	11235	4399	122522	220	58	190	78	18	12	98	85	93	36	20821
Lysinibacillus	15	65	42	2915	83996	9802	159	957	12	6886	22	36	10933	33103	4698	40
Clostridium	116	4259	392	228	182	3936	272	2908	11638	31283	223	3187	71179	89412	573	174
Stenotrophomonas	14	1238	475	153	32503	47	73	13	21	255	39	22	32	19	81252	25
Staphylococcus	38	2908	11574	25085	6778	6817	2316	3105	656	915	146	1258	1388	2869	5264	76918
Marinilactibacillus	68	283	10	4	3	7	2	12372	25	31524	90	5363	67	14	48	101720
Streptococcus	100	990	3808	1447	1943	3706	2424	5652	7230	4886	496	1747	6265	1290	46125	7037
Microbacterium	113	79	19	13	6	46	17	42	0	187	186	14	4	2	67091	839
Vagococcus	12935	5199	5375	937	5240	3986	13211	779	255	1387	99	591	1095	670	3197	527
Pseudomonas	51419	222	17641	73	945	16	90	180	63	329	99	101	128	64	71	34
Alkaliphilus	1	12	34	3	8	2665	5	2493	28	48	31	4296	64487	34	9	8
Bifidobacterium	15	716	51544	3	0	214	619	7	9	28	20	31	30	11	7	9
Leuconostoc	4	4896	19549	25	47	26349	2806	145	34	116	183	297	371	91	19	48
Lactobacillus	102	377	17293	1187	442	7586	1162	3592	3176	491	102	1802	504	869	5259	3270
Paenibacillus	106	30759	243	117	94	1776	827	2822	38	1827	17	49	802	426	867	342
Enterobacter	31	86	7161	285	444	6	14815	61	46	133	11	74	44	57	12	4
Escherichia	1	5	271	9	18	0	21528	11	1	50	0	4	11	28	2	1
Macrococcus	62	500	591	359	130	1002	8904	268	24	970	57	46	1235	2321	3971	798
Brevibacterium	6	248	10308	1115	167	11662	5	77	9	11	2	7	3	4	0	1231
Carnobacterium	23	86	5168	17	14	33	99	2594	18	5571	11	965	133	132	205	6423
Tepidibacter	0	0	3	0	1	27	0	12	0	1	1	27	25242	1	0	0
Pseudoalteromonas	7	6	114	20	4	6	9	1564	14	7878	45	8210	251	26	7	24
Yersinia	9	93	7838	11	15	0	5460	1671	10	11	12	13	9	2	2	0
Arcobacter	2	2	11	3	3	4	2	585	27	11003	5	6	15	2	2	1
Cobetia	4	8	794	9605	259	2	1	2196	6	24	0	4	0	2	1	569
Idiomarina	0	74	1712	1	6	41	1	17	2	639	0	6	0	2	2	12371
Acinetobacter	153	462	7573	87	2051	55	246	269	95	324	107	46	79	112	58	10

Alkalibacterium	36	52	65	17	77	306	28	742	38	1652	17	341	56	76	121	10667
Chryseobacterium	5	1452	8190	45	582	248	23	425	100	865	21	20	50	104	29	8
Acetobacter	0	133	11803	2	2	1	0	1	1	2	1	4	1	0	0	0
Brevundimonas	13575	24	1	0	6	21	2	26	18	157	14	0	25	1	3	0
Marinobacter	56	4545	72	17	34	1175	27	5829	56	200	23	7	14	8	9	32
Kushneria	357	658	218	1877	300	202	69	145	1245	284	334	140	265	170	108	624
Trichococcus	97	480	409	46	78	670	1489	49	18	393	24	51	336	834	1316	372
Paracoccus	4	57	6	6	3	60	1	6611	6	545	225	7	823	5	0	0
Solibacillus	1	0	0	0	1	0	0	1	2	5545	1	0	3	2	0	0
Corynebacterium	1	79	4272	628	38	493	1	54	1	166	5	4	10	4	6	1048
Serratia	32	30	1887	24	54	4	2429	910	29	28	12	14	13	13	12	9
Pediococcus	9	287	155	25	8	471	877	51	41	245	10	17	437	1030	1732	25
Gluconobacter	119	79	4918	4	6	5	1	5	6	11	4	12	11	6	0	4
Planococcus	32	168	35	73	11	266	405	589	4	284	7	21	622	517	1108	951
Jeotgalicoccus	4	318	20	30	18	4899	79	61	3	11	3	1	10	11	28	661
Tetragenococcus	353	236	1394	57	209	226	439	86	70	120	49	84	123	56	203	132
Psychroflexus	0	14	36	23	18	5209	4	21	0	32	0	2	1	0	1	2
Salegentibacter	0	2	12	47	3	5064	0	24	0	21	0	0	1	0	0	12
Fructobacillus	0	51	318	5	5	4461	67	7	0	1	5	13	7	2	1	1
Salinicoccus	8	163	12	13	7	807	20	3063	1	13	1	2	8	22	38	414
Vibrio	10	7	48	42	4	5	119	25	3	49	5	4005	37	20	19	6
Leucobacter	3	11	10	0	3	6	3	10	0	22	7	2	4	1	2638	3
Shewanella	17	33	37	29	11	16	29	3367	204	44	111	41	66	20	25	44
Halanaerobium	9	8	35	18	32	16	14	498	7	2284	8	10	47	71	32	26
Candidatus Blochmannia	111	124	99	128	149	106	161	68	228	149	100	72	218	242	342	271
Brenneria	1	4	555	6	2	0	1458	12	1	6	2	1	4	1	1	0
Brachybacterium	1	24	316	643	10	355	0	802	0	221	8	0	12	2	1	79
Nesterenkonia	0	549	7	12	6	1416	1	455	1	9	0	0	1	1	0	270
Anoxybacillus	70	77	18	46	32	82	214	35	14	104	8	26	224	301	664	85
Paenisporosarcina	1	0	0	0	2	0	0	1303	0	936	0	0	3	1	0	0
Anaerobacillus	14	80	5	3	7	95	194	11	2	106	8	6	232	440	636	12
Marinomonas	47	10	51	30	7	12	18	1247	71	384	32	190	27	16	19	19
Haererehalobacter	6	1531	26	47	186	53	7	209	16	6	3	7	5	6	4	56

Virgibacillus	5	58	45	595	6	29	19	133	3	12	3	2	833	51	66	146
Pontibacillus	12	107	34	10	43	100	201	11	8	106	5	9	222	237	579	17
Flavobacterium	1	6	133	1	8	16	1	1739	139	10	6	0	0	9	10	0
Tolomonas	6	9	694	29	83	3	512	170	14	9	8	6	4	12	4	3
Planomicrobium	7	60	21	7	6	96	115	167	5	53	4	3	131	324	393	39
Arthrospira	1450	107	19	0	18	49	0	13	0	134	5	0	3	0	1	0
Turcibacter	11	59	5	6	4	75	177	2	2	65	4	7	143	323	451	5
Erwinia	30	9	481	230	391	2	31	16	5	12	12	10	16	21	1	0
Citrobacter	1	15	1316	10	6	0	1	10	22	41	1	22	21	10	0	0
Kocuria	2	46	606	6	1	48	2	145	2	536	4	0	20	3	12	14
Alcanivorax	65	51	113	34	63	65	82	29	91	58	96	41	80	79	182	110
Agrococcus	15	4	9	1	1	3	3	3	1	6	6	1	2	1	1216	34
Marinospirillum	14	15	18	122	11	1	1	41	842	15	290	12	75	6	0	8
Sphingobacterium	7	206	42	1	13	58	2	95	153	784	3	5	22	18	1	1
Moraxella	76	68	127	108	44	57	56	40	42	43	132	39	124	48	46	53
Marinococcus	0	1119	2	1	0	24	0	484	0	0	1	0	1	0	1	3
Xanthomonas	2	14	7	8	146	10	6	227	2	67	3	2	8	5	454	3
Thermicanus	63	42	152	29	52	52	82	25	35	55	62	33	97	63	122	26
Elizabethkingia	1	311	544	21	185	38	3	2	1	22	7	3	8	60	17	1
Sphingobium	45	33	100	27	337	25	18	40	64	51	35	16	92	22	29	26
Luteimonas	11	22	16	9	159	14	15	100	7	44	8	10	32	6	342	16
Enhydrobacter	0	15	338	2	7	6	50	49	1	488	2	3	9	4	1	0
Alishewanella	19	15	20	209	75	26	47	99	25	57	35	19	114	111	33	23
Propionispora	1	5	5	2	3	9	12	28	172	498	1	1	10	8	22	3
Klebsiella	13	5	340	54	146	1	84	57	30	56	3	30	25	43	2	1
Sejongia	0	0	0	2	0	159	0	229	4	75	10	0	1	1	0	0
Exiguobacterium	4	23	54	31	19	42	36	38	5	155	9	11	98	106	132	77
Sphingomonas	6	53	45	8	243	27	2	100	28	101	9	8	64	4	6	3
Chromatium	124	39	65	21	8	26	13	34	29	74	23	37	48	28	71	44
Haloanella	0	9	47	5	5	127	0	357	0	253	0	0	1	2	0	0
Erythrobacter	74	25	47	14	35	25	47	312	9	17	56	8	16	8	38	53
Listeria	5	21	43	22	2	167	60	12	8	34	4	10	84	69	133	76
Brochothrix	41	5	37	3	29	39	25	290	3	53	173	16	28	2	16	5

Peptoniphilus	6	2	8	1	2	29	1	11	7	16	7	36	692	19	3	9
Agrobacterium	1	31	53	9	193	13	0	22	20	193	2	0	28	5	2	0
Rhodoplanes	6	20	25	117	3	10	1	29	32	42	48	43	90	32	4	27
Methylophaga	18	36	116	46	1	21	7	13	83	27	85	19	43	19	14	31
Streptomyces	1	9	291	3	0	16	4	32	6	131	3	6	7	2	17	17
Cohnella	28	36	17	9	67	41	11	19	3	79	1	8	69	41	48	23
Aquimarina	0	86	23	2	4	543	1	1	0	2	0	0	0	1	0	9
Thermobacillus	0	17	2	2	2	24	65	1	0	11	1	2	42	97	195	4
Legionella	6	17	40	5	17	10	20	17	13	16	17	7	265	10	47	6
Alkalibacillus	15	75	47	9	1	20	18	144	3	4	0	7	35	21	52	85
Pelagicoccus	19	30	64	16	19	18	32	11	13	30	37	18	16	11	54	26
Amaricoccus	13	20	21	72	10	12	9	22	34	41	22	26	39	21	13	21
Pseudidiomarina	4	1	42	3	2	1	1	5	3	29	5	9	6	1	0	444
Weissella	3	10	38	2	2	419	6	1	3	13	1	3	4	7	4	9
Hydrocarboniphaga	6	11	31	26	21	6	5	15	17	17	16	6	130	12	39	10
Gemella	5	22	13	10	28	18	21	2	8	43	3	6	36	64	61	4
Citricoccus	0	8	361	0	0	48	0	0	0	0	0	0	0	0	0	0
Sporosarcina	3	4	10	0	2	22	5	198	1	96	2	4	34	17	18	15
Ferrimonas	0	3	50	5	6	0	328	2	2	5	0	11	4	5	1	1
Thermodesulfovibrio	36	13	33	28	16	12	16	13	14	20	7	11	19	43	51	8
Sporotomaculum	30	20	88	10	26	27	55	4	1	10	4	8	8	5	19	13
Rothia	0	3	161	0	0	1	1	34	1	139	0	2	0	1	1	0
Brevibacillus	0	0	13	13	37	1	37	2	0	2	0	0	0	0	0	278
Janthinobacterium	0	6	2	3	18	0	0	57	265	24	1	0	11	5	1	0
Viridibacillus	1	6	0	1	35	37	42	30	1	41	1	2	28	48	36	6
Aeromicrobium	9	5	26	6	20	6	8	7	6	16	11	11	111	12	52	4
Litoricola	5	9	12	53	2	7	5	9	37	18	22	20	26	12	11	17
Ureibacillus	5	18	5	6	8	22	21	0	1	26	0	1	24	91	54	5
Phenylobacterium	119	12	7	5	3	9	13	9	0	15	1	5	17	30	63	16
Comamonas	0	21	25	1	50	12	0	6	16	130	2	2	6	5	0	0
Caloramator	5	12	3	7	10	18	12	12	8	39	4	22	54	23	16	39
Roseomonas	30	16	83	3	2	6	7	4	1	63	2	6	7	4	4	13
Novosphingobium	2	13	4	3	8	8	3	108	18	31	1	4	41	46	13	4

Steroidobacter	8	18	13	52	3	11	20	10	5	14	2	10	11	16	12	7
Thiocapsa	16	4	14	19	19	8	18	7	7	9	12	10	17	9	32	5
Geobacillus	1	27	10	10	4	3	8	13	6	17	1	11	72	24	32	12
Blautia	10	0	1	1	0	5	1	235	1	5	0	3	6	4	3	5
Dietzia	1	0	4	1	0	36	0	229	2	8	1	0	0	1	0	3
Psychromonas	2	1	7	21	4	6	4	136	1	10	4	15	5	8	4	18
Allochromatium	4	9	9	31	6	5	2	11	8	20	12	9	14	23	4	16
Cycloclasticus	15	7	32	21	5	9	7	10	13	11	8	12	8	9	7	8
Thiorhodococcus	11	7	19	3	3	7	11	5	13	11	22	17	22	4	21	11
Swaminathania	0	2	220	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydrogenophilus	3	1	11	4	12	5	6	2	1	9	5	4	6	0	77	8
Thiomonas	20	7	17	4	15	4	12	6	7	9	3	11	17	3	13	12
Melissococcus	76	1	8	0	1	9	4	5	1	8	0	10	8	22	39	1
Kurthia	1	1	0	5	30	9	0	1	0	115	0	0	3	0	0	0
Oceanospirillum	1	2	144	0	0	1	0	5	5	3	0	0	2	0	0	0
Porphyromonas	0	0	0	0	1	1	0	1	1	43	13	0	159	3	0	2
Mycoplasma	18	6	26	12	10	6	0	9	3	18	5	4	10	7	5	28
Desulfovibrio	4	6	30	4	4	14	16	8	8	5	2	1	7	20	31	11
Desulfotomaculum	1	2	19	0	2	7	10	3	4	6	4	7	66	5	23	16
Arthrobacter	0	6	43	1	2	5	2	66	23	26	9	1	0	1	2	2
Rickettsiella	5	2	9	23	1	1	0	12	2	12	8	18	10	8	11	13
Propionibacterium	0	7	16	10	1	6	9	9	1	14	14	4	15	6	8	18
Agromyces	0	4	96	1	0	2	3	2	0	1	1	1	2	2	26	2
Candidatus Endobugula	1	4	22	1	17	1	5	11	63	1	14	2	6	2	4	20
Rhodococcus	0	3	43	0	56	8	1	1	3	5	1	4	2	3	13	4
Desulfosporosinus	1	25	5	6	2	6	13	5	3	8	1	0	15	18	37	12
Veillonella	0	0	30	5	1	0	1	3	12	77	4	5	11	16	0	2
Wautersiella	0	11	11	14	33	8	0	25	0	36	1	2	0	4	0	0
Pedobacter	0	19	1	3	74	11	0	15	13	18	0	0	1	0	0	0
Marichromatium	19	7	23	2	12	4	18	5	4	5	9	6	5	3	14	6
Citromicrobium	0	0	0	0	0	0	0	194	0	2	0	0	0	0	0	0
Glaciecola	4	10	24	7	5	6	28	13	1	3	2	9	7	2	11	6
Pseudoxanthomonas	0	7	1	1	29	5	0	0	0	25	0	0	0	0	39	0



Salimicrobium	0	190	0	0	0	3	0	0	0	0	0	0	0	0	0	0
Dokdonella	1	4	1	3	19	1	1	4	4	6	3	1	1	2	46	6
Actinocorallia	0	3	66	7	0	67	1	1	1	1	0	0	0	0	0	5
Ochrobactrum	20	51	9	3	12	8	0	4	0	21	1	0	17	3	0	2
Trabulsiella	0	0	70	7	11	0	10	2	5	9	2	2	3	4	0	0
Candidatus Liberibacter	5	2	6	7	1	2	3	27	49	8	14	5	8	3	2	4
Erysipelothrix	2	8	4	7	6	14	0	5	3	10	3	2	5	4	36	7
Sarcina	0	0	0	0	1	0	0	0	0	26	0	0	111	2	0	0
Hymenobacter	7	10	9	5	7	16	0	9	0	20	2	3	6	1	5	3
Providencia	4	0	19	3	2	0	60	1	3	5	4	1	2	1	5	7
Lentibacillus	3	6	36	5	3	8	3	8	1	4	1	4	10	5	10	16
Microbulbifer	9	7	3	13	8	17	10	47	2	3	2	0	1	1	3	3
Bacteroides	0	3	0	0	0	3	2	61	9	51	0	0	0	4	0	0
Bergeyella	0	3	95	0	1	1	1	2	0	1	0	1	0	1	0	0
Amphritea	1	3	48	3	6	1	2	2	3	5	1	3	5	3	0	11
Demequina	1	2	56	8	0	4	0	14	1	6	0	3	0	0	1	7
Deinococcus	0	2	6	0	2	36	0	7	0	52	2	1	0	2	2	0
Thioalkalimicrobium	6	2	7	8	1	3	0	10	2	9	15	9	9	3	2	7
Negativicoccus	2	7	10	3	1	4	12	3	2	12	2	1	8	9	19	2
Uliginosibacterium	1	4	2	20	0	1	0	4	4	6	8	8	12	6	9	5
Moorella	6	5	17	2	7	8	13	1	4	2	1	0	2	1	1	8
Thermoanaerobacterium	1	0	5	1	1	2	1	0	7	10	3	1	23	46	3	1
Georgenia	0	2	31	0	0	1	0	23	0	30	1	0	1	0	0	0
Thermoanaerobacter	10	19	6	2	7	6	8	1	8	3	1	2	5	1	2	11
Roseospira	1	4	6	2	2	2	2	18	2	8	0	5	15	7	23	3
Kribbella	1	3	3	1	2	3	13	0	2	8	2	2	6	19	31	4
Rhodospirillum	12	3	5	3	3	2	1	7	2	14	4	5	6	6	14	9
Geobacter	5	22	4	1	1	5	3	1	1	6	3	1	16	8	11	3
Caulobacter	112	0	0	0	1	0	1	1	1	0	0	0	0	0	1	0
Ruegeria	2	1	2	2	2	0	0	40	4	26	12	1	4	0	1	0
Nannocystis	16	1	0	0	0	2	1	0	1	1	1	0	86	2	0	1
Acetobacterium	4	5	7	1	4	1	1	7	1	13	2	0	7	2	3	30
Aerococcus	0	10	0	0	0	24	0	55	0	15	0	0	0	0	0	0

Desulfonatronum	10	6	6	2	4	3	2	7	2	8	2	1	5	2	3	15
Rhodobacter	0	11	0	0	0	15	0	27	3	27	0	2	0	0	0	0
Coraliomargarita	14	3	12	0	1	5	1	3	2	10	5	1	2	9	5	5
Micrococcus	1	3	8	14	0	1	0	19	0	17	0	31	2	0	0	0
Winogradskyella	0	0	0	0	0	0	0	90	0	9	0	0	0	0	0	0
Phaeobacter	2	3	7	3	5	3	1	10	2	1	5	0	1	1	25	2
Oscillospira	4	2	4	6	4	4	5	4	4	7	2	1	0	3	4	9
Plesiomonas	0	0	11	7	32	1	0	5	1	6	1	1	2	6	0	0
Delftia	1	5	10	2	9	0	3	8	1	1	0	5	3	0	6	7
Rummeliibacillus	0	0	0	0	2	0	0	1	0	55	0	0	1	0	0	0
Acholeplasma	5	2	0	6	2	1	2	12	1	8	2	2	11	5	6	10
Anaeromusa	0	3	1	0	0	4	9	1	8	8	0	0	2	11	24	0
Thermomonas	0	2	0	0	8	6	1	16	0	9	0	0	2	0	19	1
Fusobacterium	0	0	0	2	0	1	0	7	0	27	2	0	45	0	0	0
Gallionella	1	0	0	2	11	1	0	3	0	1	1	0	1	1	35	2
Thalassospira	4	4	5	3	2	5	4	6	6	4	8	4	5	1	9	4
Marinitoga	0	1	12	6	1	9	0	36	3	4	0	7	3	0	0	4
Dermacoccus	0	0	4	0	0	2	0	4	0	54	1	0	1	0	0	0
Leptospira	4	12	0	1	0	5	2	5	1	7	0	2	0	2	2	38
Microvirus	3	0	8	2	0	2	1	1	7	4	3	5	5	1	13	8
Syntrophomonas	2	0	5	3	2	2	8	3	8	6	4	0	4	3	6	3
Campylobacter	1	4	4	4	1	3	4	6	2	6	1	1	4	6	9	10
Bdellovibrio	0	1	11	3	0	5	2	6	8	7	0	3	10	5	8	4
Myroides	1	0	0	0	1	9	0	41	8	24	1	0	0	1	0	0
Micromonospora	1	1	15	1	0	8	2	3	3	3	2	0	9	6	8	5
Desulfobacter	1	3	5	4	1	3	2	0	3	7	3	1	10	5	5	4
Arcanobacterium	0	0	12	1	0	1	6	1	1	6	8	0	41	1	5	1
Asticcacaulis	47	2	5	0	0	1	3	3	2	6	1	2	1	2	1	0
Rhodothermus	1	2	9	2	1	6	3	2	0	1	0	3	4	0	18	3
Mycetocola	0	5	0	0	0	5	0	1	0	2	0	0	0	0	54	0
Prevotella	0	1	0	0	0	0	0	0	0	63	0	0	0	0	2	0
Ehrlichia	12	4	4	3	4	1	1	3	4	4	0	3	5	2	3	13
Mesonina	0	0	1	0	1	65	0	11	0	0	0	0	0	0	0	0

Polynucleobacter	2	4	1	2	2	1	2	5	2	0	10	2	6	5	7	3
Acidovorax	0	2	5	2	0	2	0	4	1	33	0	0	0	0	0	0
Salinivibrio	0	1	6	1	0	1	0	8	0	21	0	1	0	1	0	19
Methylobacterium	1	13	2	2	3	7	5	2	4	6	0	0	3	2	6	2
Gramella	0	3	1	1	0	54	0	10	0	2	0	0	0	0	0	0
Polaribacter	0	5	34	0	4	3	0	1	0	5	0	0	0	2	0	0
Aminiphilus	1	8	4	2	1	2	1	3	7	4	8	0	1	0	5	5
Hyphomonas	24	0	7	0	4	2	3	3	2	0	1	1	5	3	4	2
Actinomyces	0	6	6	0	0	5	1	7	0	29	1	0	3	0	1	0
Sphaerochaeta	0	0	0	0	0	0	0	48	0	18	0	0	0	0	0	0
Morganella	1	0	7	1	1	0	39	0	0	0	1	0	0	2	0	0
Mycobacterium	0	3	17	1	0	5	0	7	0	10	0	3	0	0	3	3
Thiothrix	2	0	2	1	4	2	0	1	2	3	2	2	3	0	15	5
Mesoplasma	10	1	0	3	2	3	0	7	0	3	0	1	3	4	6	12
Cetobacterium	0	0	0	0	0	0	0	56	0	8	0	0	0	0	0	0
Tetrasphaera	1	0	37	0	0	1	0	3	0	8	0	0	0	0	0	0
Leucothrix	1	1	3	19	3	0	2	8	0	2	0	2	2	2	3	0
Desulfosarcina	0	1	0	0	2	4	4	0	0	2	0	1	10	4	11	5
Xanthobacter	1	3	2	1	1	4	0	10	11	4	4	1	3	0	6	0
Saccharospirillum	5	7	4	2	8	3	1	3	2	1	0	2	2	2	0	4
Luteococcus	0	1	14	0	0	1	0	5	0	12	0	1	1	0	0	1
Desulfonauticus	2	1	3	1	0	4	0	0	3	11	5	0	0	4	0	2
Oxalobacter	0	5	3	1	13	1	0	6	10	0	1	3	0	1	0	0
Saccharopolyspora	10	2	5	1	0	5	0	0	0	2	0	2	4	1	11	2
Tenacibaculum	1	1	3	2	0	2	0	12	0	7	0	0	6	3	0	7
Heliorestis	5	4	2	1	0	1	1	2	0	1	2	1	4	11	8	4
Cystobacter	2	0	2	0	3	1	1	2	2	10	4	0	3	7	1	8
Gelidibacter	0	0	0	0	0	6	0	34	0	12	0	0	0	0	0	0
Actinocatenispora	2	1	4	1	0	11	0	2	1	0	0	0	1	0	11	2
Yonghaparkia	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sporolactobacillus	0	1	1	3	1	2	3	1	1	1	0	0	9	2	9	10
Kitasatospora	1	0	28	1	0	0	0	0	0	3	0	1	1	0	0	1
Dyadobacter	2	1	7	0	2	2	1	16	0	3	0	0	3	1	2	2

Azospirillum	1	1	22	0	0	0	0	1	0	3	1	0	10	0	3	0
Aurantimonas	0	13	0	0	2	1	0	29	0	3	0	0	0	0	0	0
Propionicimonas	0	1	9	0	1	3	0	6	0	11	1	0	3	2	0	0
Candidatus Scalindua	8	2	1	1	0	0	1	6	3	2	2	1	4	5	1	3
Methylobacillus	7	1	2	1	0	3	5	1	0	2	1	0	6	1	2	4
Sphingopyxis	0	3	3	0	2	5	0	3	1	5	0	0	7	5	0	0
Planifilum	1	2	19	1	1	1	3	0	4	0	0	1	0	1	2	2
Thioalkalivibrio	3	5	0	6	1	1	0	1	3	4	4	1	7	2	0	1
Anaerovibrio	0	1	0	0	0	0	0	0	1	29	0	0	0	0	0	0
Ectothiorhodospira	4	1	9	1	5	2	3	3	0	0	0	1	0	0	3	2
Acidaminococcus	0	1	0	0	1	2	0	32	0	10	0	0	0	0	0	0
Actinopolymorpha	0	1	0	1	0	0	2	1	0	1	0	1	0	0	21	3
Thermodesulfator	7	0	0	4	2	0	0	0	1	4	1	1	2	3	1	10
Luteibacter	8	5	2	0	2	11	1	0	0	2	0	0	1	0	3	6
Oceanisphaera	0	1	0	1	0	0	0	2	6	0	0	0	1	0	0	31
Rickettsia	1	1	1	1	4	4	0	5	1	2	0	2	2	2	5	5
Tsukamurella	0	0	28	0	0	0	1	1	0	1	0	1	0	0	1	0
Nitrincola	11	4	3	0	0	1	0	9	0	2	0	1	0	0	0	1
Megasphaera	0	1	2	7	1	1	0	1	4	9	0	7	0	1	2	0
Selenomonas	1	1	2	3	2	0	1	0	1	17	0	1	0	2	0	0
Phyllobacterium	7	2	0	1	0	0	0	25	0	2	1	0	1	2	0	0
Actinokineospora	0	1	23	0	0	2	0	2	1	2	0	0	0	0	0	0
Arsenophonus	0	0	5	0	1	0	21	0	0	0	0	0	0	0	0	0
Gordonia	0	1	3	1	0	11	0	2	0	12	0	0	0	0	0	3
Thermus	1	3	0	1	2	5	3	1	0	3	2	1	1	3	6	0
Rathayibacter	0	0	10	3	1	1	0	6	0	4	0	0	3	0	3	1
Rhodovibrio	2	3	5	1	0	1	1	1	14	0	2	0	1	0	1	2
Shinella	1	2	1	0	3	0	0	5	6	8	0	0	3	0	0	0
Burkholderia	1	1	1	0	0	2	1	0	5	5	7	0	3	2	0	1
Sediminibacillus	0	1	1	1	1	4	1	1	0	1	0	0	3	3	7	8
Nitrosococcus	0	0	2	0	2	3	0	0	0	1	1	0	1	1	8	1
Pseudoclavibacter	0	5	0	0	1	11	0	6	0	6	0	0	1	0	1	0
Actinobaculum	0	3	2	1	0	1	0	0	1	0	1	0	0	0	12	2

Roseivivax	0	0	0	0	0	6	0	7	0	17	1	0	0	0	0	0
Knoellia	0	0	4	0	0	1	0	11	0	11	0	0	1	0	1	0
Salinibacterium	2	7	0	0	0	1	0	13	2	6	0	0	0	0	1	0
Polaromonas	0	8	3	0	2	8	0	2	0	8	0	0	1	0	0	0
Giesbergeria	0	1	1	0	6	0	0	0	0	10	0	0	0	1	0	0
Euzebya	5	1	6	1	0	2	3	3	1	0	0	1	0	2	5	0
Lautropia	0	0	4	1	0	2	0	2	2	1	2	2	5	0	1	1
Caldicellulosiruptor	7	1	1	0	2	1	0	1	3	1	0	1	0	0	1	2
Dickeya	0	1	4	3	0	0	1	2	0	4	0	0	2	4	0	1
Carboxydocella	2	1	1	1	0	0	1	2	4	2	0	1	0	1	1	6
Helicobacter	1	4	3	2	0	2	0	1	0	1	1	1	0	1	2	7
Lewinella	0	1	2	1	3	3	0	4	1	4	0	2	0	0	0	3
Petrotoga	1	0	16	1	0	0	1	0	1	2	1	0	0	0	0	0
Candidatus Tammella	1	1	3	0	2	1	1	3	1	1	1	0	0	0	4	1
Bizionia	0	0	0	0	0	1	0	21	0	6	0	0	0	0	0	0
Fusibacter	0	0	0	0	0	0	0	14	11	1	0	0	0	0	0	0
Lysobacter	0	2	1	1	3	0	0	0	0	0	0	0	1	1	3	0
Alloscardovia	0	2	24	0	0	0	0	0	0	0	0	0	0	0	0	0
Friedmanniella	0	1	4	0	0	13	0	2	0	5	0	0	1	0	0	0
Variovorax	0	0	1	0	1	3	1	5	0	4	0	0	1	0	0	0
Kaistobacter	0	0	0	0	1	0	0	17	0	4	0	1	2	0	0	0
Nocardia	0	0	6	2	0	2	0	4	1	0	0	1	0	0	0	1
Johnsonella	4	0	0	1	0	4	0	0	2	1	2	1	1	3	0	2
Oerskovia	0	2	2	0	0	2	0	5	0	5	0	0	0	0	0	0
Glycomyces	0	1	3	0	1	0	0	0	0	3	0	0	0	0	12	0
Pseudonocardia	0	1	13	1	1	4	0	0	0	1	0	0	0	0	0	0
Curtobacterium	0	1	10	0	1	2	0	3	0	1	0	0	0	0	2	0
Devosia	0	9	0	0	0	5	1	5	1	6	0	0	0	0	0	0
Tessaracoccus	0	0	0	0	0	0	0	3	0	12	0	0	0	0	1	0
Paucibacter	0	2	2	0	4	5	0	7	0	4	0	0	0	0	0	1
Hahella	1	3	0	1	2	2	1	0	3	1	1	0	2	2	0	0
Bradyrhizobium	1	9	0	2	0	2	0	0	1	2	0	1	3	0	2	1
Reinekea	0	1	1	2	3	0	1	1	0	0	0	0	0	0	9	0

Marinobacterium	3	3	0	0	1	0	0	5	1	0	1	0	0	0	1	2
Rhizobium	0	5	2	0	1	0	1	1	0	5	0	0	2	0	0	0
Peptococcus	1	3	2	0	0	0	0	0	0	0	1	0	2	4	2	1
Achromobacter	0	0	2	1	11	0	0	2	1	0	0	0	0	0	0	0
Natronincola	0	1	0	0	0	1	0	1	0	3	0	0	14	0	0	0
Mesorhizobium	0	3	1	1	1	1	0	5	0	3	0	0	1	1	2	0
Candidatus																
Rhabdochlamydia	0	1	0	1	0	0	2	0	0	2	0	0	2	0	4	0
Loktanella	0	0	0	1	0	0	0	7	0	9	0	0	0	0	0	0
Terracoccus	0	1	2	0	0	0	0	4	0	11	0	0	0	1	0	0
Dysgonomonas	0	1	0	0	0	4	0	0	3	12	0	0	0	0	0	0
Bartonella	1	2	1	0	0	1	1	5	2	5	1	0	2	0	0	0
Desulfuromonas	2	0	1	1	1	2	0	0	0	0	2	0	2	0	1	5
Chromobacterium	2	0	1	1	4	1	0	2	0	3	2	0	0	1	0	1
Neisseria	0	0	10	1	1	1	0	0	0	0	0	0	0	0	0	0
Chitinophaga	0	5	1	0	1	0	0	1	0	10	0	0	1	0	0	0
Flammeovirga	1	0	1	1	2	0	0	0	2	3	0	0	2	3	0	0
Candidatus Regiella	1	0	6	0	0	0	1	0	1	0	1	1	2	0	1	2
Francisella	0	2	2	2	0	0	0	1	0	1	0	1	0	1	0	1
Longilinea	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0
Thiorhodospira	4	0	2	0	2	1	1	1	1	0	1	0	0	0	1	2
Desulfitobacterium	0	9	0	0	0	1	0	1	0	0	0	0	0	3	4	0
Azomonas	2	0	9	0	4	0	0	0	0	1	0	0	0	0	0	0
Vogesella	0	1	0	0	3	0	0	2	1	3	0	0	1	0	0	0
Sulfurospirillum	1	1	0	0	1	0	0	2	1	3	0	0	2	2	3	0
Oceanobacillus	0	0	0	0	0	0	0	0	0	6	0	0	10	0	0	0
Borrelia	2	1	0	1	1	5	0	0	0	0	0	0	0	0	2	0
Lachnospira	1	1	0	0	0	0	0	1	1	1	0	1	6	0	1	0
Terribacillus	0	0	1	0	0	0	0	0	0	0	0	0	16	0	0	0
Calothrix	0	1	0	5	1	1	0	2	0	0	0	1	3	1	0	0
Candidatus Phytoplasma	0	1	1	0	0	1	1	0	1	0	1	2	1	1	2	2
Neorickettsia	2	0	4	1	1	0	0	4	0	1	0	0	0	0	0	0
Marivita	0	2	0	0	0	0	0	11	0	3	0	0	0	0	0	0

Acidisoma	1	1	2	0	1	0	0	0	0	1	0	0	1	0	7	0
Acidocella	0	1	9	1	0	0	0	0	0	0	0	0	0	0	0	0
Candidatus Glomeribacter	0	1	1	0	1	2	0	1	1	2	1	1	1	0	0	0
Methylonatrum	2	1	2	0	0	0	0	2	2	1	0	0	0	0	0	1
Ramlibacter	0	3	4	0	0	3	0	1	0	0	0	0	0	1	0	0
Candidatus Amoebophilus	3	0	1	0	3	0	1	3	0	2	2	0	0	0	0	0
Acidiphilium	0	0	10	0	0	0	0	0	0	0	0	0	0	0	1	1
Oenococcus	0	0	4	0	0	7	1	0	0	0	0	0	0	0	0	0
Luteolibacter	0	0	0	0	0	5	0	7	0	0	1	0	0	0	0	0
Zhouia	0	0	0	0	0	0	0	13	0	2	0	0	0	0	0	0
Curvibacter	0	3	0	0	1	6	0	1	1	1	0	0	0	0	0	0
Maricaulis	1	0	3	0	0	2	1	2	0	0	0	0	0	0	0	1
Ancylobacter	1	3	0	0	4	0	0	0	1	3	0	0	1	0	0	0
Desulfurispora	0	3	3	0	0	1	0	0	0	0	0	0	0	0	0	1
Sneathia	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0
Gluconacetobacter	0	0	11	0	0	0	0	0	0	0	0	1	0	0	0	0
Nostoc	0	0	0	1	2	1	0	0	2	3	0	1	0	1	0	0
Rubritalea	0	0	2	0	1	0	1	3	0	1	0	0	0	0	1	0
Actinopolyspora	0	1	4	0	0	3	1	0	0	0	0	0	0	0	2	1
Anaerobranca	0	1	0	0	0	1	1	0	0	2	0	0	1	1	1	2
Skermanella	0	1	1	0	0	0	1	1	0	2	0	0	0	0	4	0
Desulfomonile	0	0	1	2	1	0	0	1	0	0	1	0	2	1	0	1
Thiocystis	1	0	0	0	0	0	1	0	1	0	0	0	1	0	1	1
Janibacter	0	1	0	0	1	0	0	1	0	8	0	0	0	0	0	0
Novispirillum	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
Amycolatopsis	0	0	4	0	0	2	1	0	0	1	0	0	1	0	1	0
Phascolarctobacterium	2	0	0	0	0	0	0	3	0	3	0	1	0	0	1	0
Pectinatus	0	0	1	2	1	0	0	0	0	1	0	0	1	0	0	0
Fervidobacterium	1	1	0	1	0	1	0	0	0	0	1	0	2	0	1	1
Blastochloris	0	0	1	0	0	0	0	4	2	0	0	0	4	1	0	0
Sedimentibacter	0	0	2	0	0	3	0	3	1	1	0	0	0	0	0	0
Facklamia	0	2	0	0	1	0	1	5	0	1	0	0	0	0	0	0
Isosphaerula	0	2	0	0	0	0	0	5	0	3	0	0	0	0	0	0

Smithella	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubellimicrobium	0	0	1	0	0	0	0	6	0	1	1	0	0	0	0	0
Oligella	2	0	0	1	0	1	0	1	0	0	0	0	0	0	0	2
Telmatospirillum	4	0	3	0	0	0	0	1	0	1	0	0	0	0	0	0
Propionigenium	0	0	0	0	0	0	0	8	0	1	0	0	0	0	0	0
Diaphorobacter	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0
Candidatus Contubernalis	2	0	2	0	1	0	0	0	0	0	0	0	0	1	0	0
Streptacidiphilus	0	0	4	0	0	0	0	0	0	2	0	0	0	0	0	0
Anaerococcus	0	0	0	1	0	0	0	0	0	0	0	0	6	0	0	1
Thermosipho	0	0	8	0	0	0	0	0	0	0	0	1	0	0	0	0
Acidimicrobium	0	0	3	0	0	0	0	0	0	1	0	0	0	1	2	0
Halanaerobacter	0	0	0	1	0	1	0	0	0	0	0	0	7	0	0	0
Thermovenabulum	0	0	4	0	0	0	0	1	0	0	0	0	0	0	0	0
Stenoxybacter	1	0	0	2	1	2	0	1	0	0	1	1	0	0	0	0
Kineosporia	0	0	3	0	0	2	0	1	0	1	0	0	0	0	0	0
Rheinheimera	0	0	0	0	0	0	0	2	0	3	0	2	0	0	0	0
Halorhodospira	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	0
Jannaschia	1	0	0	1	0	4	0	2	0	0	0	0	0	0	0	0
Sulfobacillus	1	1	0	0	0	0	0	0	0	2	0	0	0	0	2	0
Leptothrix	0	0	5	0	0	0	0	1	0	0	0	0	0	0	0	1
Kytococcus	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	3
Chelativorans	0	0	0	0	0	0	0	4	0	3	0	0	0	0	0	0
Gillisia	0	2	1	0	0	2	0	1	1	0	0	0	0	0	0	0
Phycococcus	0	0	0	1	0	0	0	0	0	6	0	0	0	0	0	0
Chondromyces	0	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0
Xenophilus	0	0	1	0	1	4	0	0	0	0	0	0	0	0	0	0
Labrys	1	0	0	1	0	0	0	0	1	2	0	0	0	1	0	1
Helcococcus	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0
Thiohalorhabdus	0	1	0	0	0	1	0	2	0	0	0	0	0	1	0	0
Hylemonella	0	0	2	0	0	0	0	0	0	3	0	0	0	1	0	0
Pseudochrobactrum	0	0	2	0	0	1	0	1	0	3	0	0	0	0	0	0
Slackia	0	1	0	0	1	2	0	0	0	1	0	0	2	0	0	0
Sanguibacter	0	0	2	0	0	0	0	2	0	2	0	1	0	0	0	0



Symbiobacterium	0	0	2	0	0	0	0	0	0	0	0	0	5	0	0	0
Parapedobacter	0	1	0	0	0	2	0	0	0	2	0	0	0	0	0	0
Yaniella	0	0	2	0	0	2	0	0	0	3	0	0	0	0	0	0
Olleya	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0
Pelobacter	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	2
Actinoallomurus	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
Psychrilyobacter	0	0	0	0	0	0	0	6	1	0	0	0	0	0	0	0
Cellulomonas	0	1	0	0	1	0	0	0	0	1	0	0	0	0	1	0
Natronobacillus	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0
Shuttleworthia	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
Aquitalea	0	0	0	0	0	0	0	3	1	2	0	0	0	0	0	0
Caldithrix	0	0	4	0	0	0	1	0	1	0	0	0	0	0	1	0
Parabacteroides	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0
Azorhizophilus	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Nonomuraea	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0
Anaerofilum	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Arenibacter	0	1	0	0	0	1	0	4	0	0	0	0	0	0	0	0
Faecalibacterium	0	0	4	0	0	0	0	0	0	0	0	0	0	0	1	0
Thermogemmatispora	0	2	0	0	1	1	0	0	0	0	0	0	1	0	0	0
Soehngenia	0	0	0	0	0	1	0	1	0	3	0	0	0	0	0	0
Filifactor	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
Ammoniphilus	0	0	0	0	1	0	0	0	0	3	0	0	1	0	0	0
Pelotomaculum	0	1	0	0	0	0	0	1	0	1	0	0	0	1	2	0
Zobellia	0	0	1	1	0	0	0	1	0	1	0	0	0	0	0	0
Prostheco bacter	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Acidaminobacter	0	0	2	0	0	0	0	0	0	0	1	0	2	0	0	0
Martellella	0	3	0	0	0	0	0	1	0	1	0	0	0	0	0	0
Erythromicrobium	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0
Dechloromonas	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	1
Roseococcus	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0
Azorhizobium	0	0	0	0	0	1	0	0	0	0	0	0	3	0	1	0
Haliangium	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	0
Peptostreptococcus	0	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0

Balneimonas	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
Limnobacter	0	0	0	0	0	0	0	1	1	0	1	0	2	0	0	0
Cellulosimicrobium	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0
Aequorivita	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0	0
Pseudaminobacter	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Caldilinea	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0
Actinomycetospora	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3	0
Arenimonas	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
Mitsuaria	0	0	0	0	1	0	0	0	0	0	0	0	2	1	0	0
Pullulanibacillus	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Halochromatium	0	0	0	0	1	0	1	1	0	0	0	0	1	0	0	0
Arsenicococcus	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0
Moritella	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
Thiobacillus	0	0	0	1	0	0	0	0	0	2	0	0	0	1	0	0
Microlunatus	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0
Rhodocyclus	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0
Zhihengliuella	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0
Singulisphaera	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Ralstonia	1	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0
Desulfofrigus	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Holdemania	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Oleomonas	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
Eikenella	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutibacterium	0	1	0	0	0	0	0	1	0	2	0	0	0	0	0	0
Hyphomicrobium	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Geothrix	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Rubrobacter	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Lentzea	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0
Nocardiosis	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	1
Dethiosulfovibrio	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Flavisolibacter	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0
Granulicatella	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
Tepidimonas	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0

Thermobaculum	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
Leptolyngbya	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0
Nisaea	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Salinimicrobium	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0
Cellvibrio	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0
Candidatus																
Methylacidiphilum	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0
Candidatus																
Xiphinematobacter	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Kineococcus	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
Chroococcus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Promicromonospora	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0
Ulvibacter	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0
Planctomyces	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0
Olivibacter	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0
Aquicella	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlorobaculum	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Nocardioides	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
Serinicoccus	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Desulfonatronovibrio	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
Treponema	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Photobacterium	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
Acidisphaera	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
Parascardovia	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Cryocola	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Aminobacter	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Hydrogenophaga	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Deferribacter	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Desulfuromusa	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Frigoribacterium	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
Niabella	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Eggerthella	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Nitrobacter	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Muricauda	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
Methylomonas	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Microvirgula	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleomorphomonas	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Ammonifex	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Streptosporangium	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Syntrophobacter	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Chthoniobacter	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Runella	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
Kaistia	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Desemzia	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
Methyloversatilis	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
Fulvivirga	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Herbaspirillum	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Segetibacter	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Oribacterium	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
Afipia	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
Tanticharoenia	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Vitreoscilla	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
Rubrivivax	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Salmonella	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Sebaldella	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Bellilinea	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
Ruminobacter	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
Jiangella	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Desulfacinum	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
Renibacterium	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
Desulfurispirillum	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Atopobium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Proteus	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Candidatus Portiera	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Patulibacter	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Rhodoferax	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

Candidatus Aquiluna	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Edaphobacter	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Edwardsiella	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Tindallia	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
Lampropedia	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
Defluviobacter	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Alkanindiges	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Blastococcus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Verrucomicrobium	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Pseudobutyrvibrio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Methylomicrobium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oscillatoria	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Succinivibrio	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Thiomicrospira	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Sinorhizobium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Actinomadura	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mannheimia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Aneurinibacillus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Alteromonas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Alloiococcus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Sphaerisporangium	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Ruminococcus	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Aliivibrio	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Gemmata	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Pimelobacter	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Scytonema	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Salinimonas	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Pasteurella	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fingoldia	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Haemophilus	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Sharpea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Azospira	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Marinibacillus	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

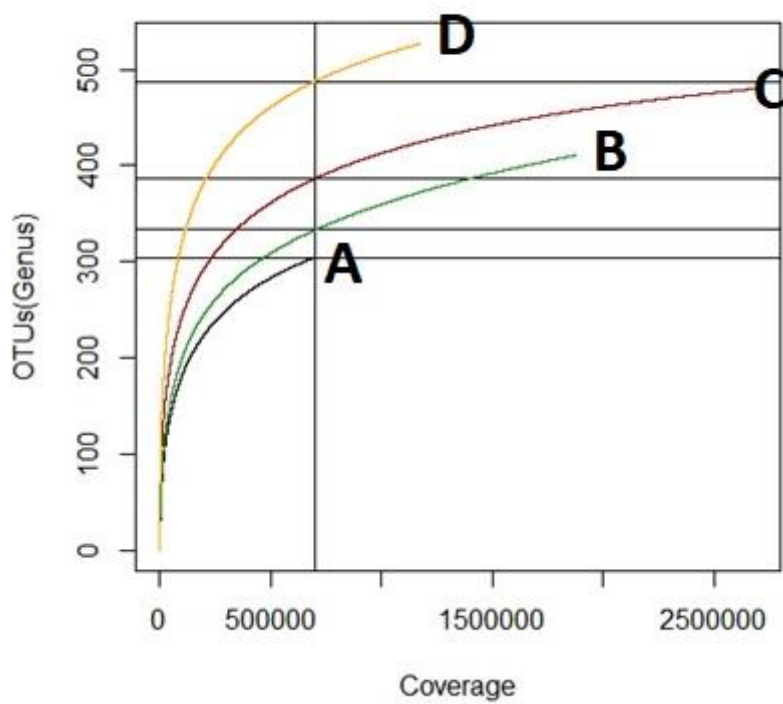
Rarobacter	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Salinisphaera	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haladaptatus	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Rapidithrix	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Piscibacillus	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Anaeroplasma	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Candidatus Protochlamydia	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Fulvimarina	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dichelobacter	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bosea	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Chloroflexus	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Roseivirga	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Cloacibacillus	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Parachlamydia	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Denitrobacter	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Desulfosporomusa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mycoplana	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Pelomonas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isosphaera	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Cupriavidus	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Paraprevotella	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Methylopila	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Blastomonas	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Marinimicrobium	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Microbispora	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Oceanibulbus	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Methylosinus	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Herpetosiphon	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Pelagibaca	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Zunongwangia	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Tepidimicrobium	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Aquimonas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mogibacterium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

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8 **Supplementary Figure 1.** Rarefaction curves showing the sequencing coverage from  
9 Illumina<sup>®</sup> MiSeq 16S rDNA metataxonomics results for samples of raw material (A),  
10 final product (B), food-contact surfaces (C) and non-food contact surfaces (D) from a  
11 Brazilian Dairy (São Paulo state 5). The mean sequencing coverage was 200,000 and all  
12 samples reads were well sequenced, as indicated by the plateaus.

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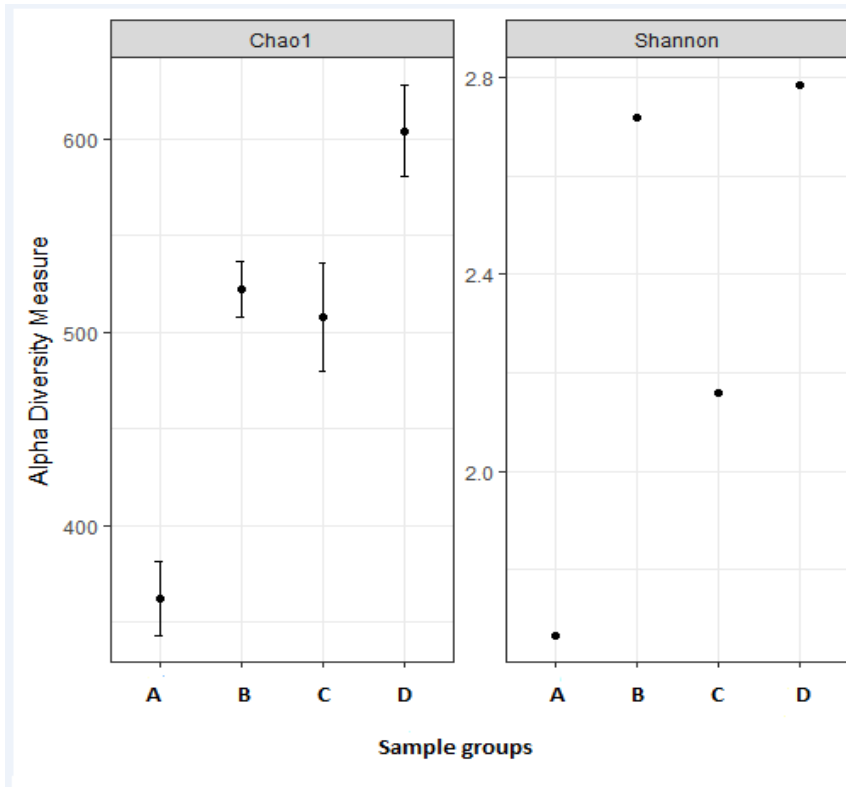


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17 **Supplementary Figure 2.** Chao1 and Shannon diversity indexes calculated from  
18 Illumina® MiSeq 16S rDNA metataxonomics results for samples of raw material (A),  
19 final product (B), food-contact surfaces (C) and non-food contact surfaces (D) from a  
20 Brazilian Dairy (São Paulo state 5).

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