

1 **Supplemental Figure Captions**

2

3 **Figure S1.** Principal coordinate plots of weighted UniFrac distances showing clustering
4 of individual surface types across the four kitchens examined. Letters in each plot
5 indicate the kitchen of origin.

6

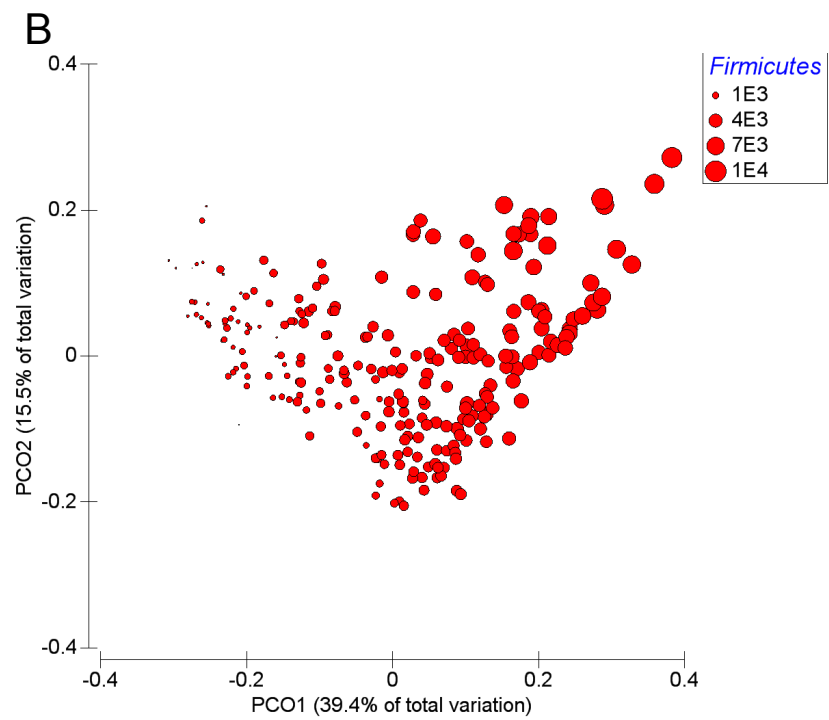
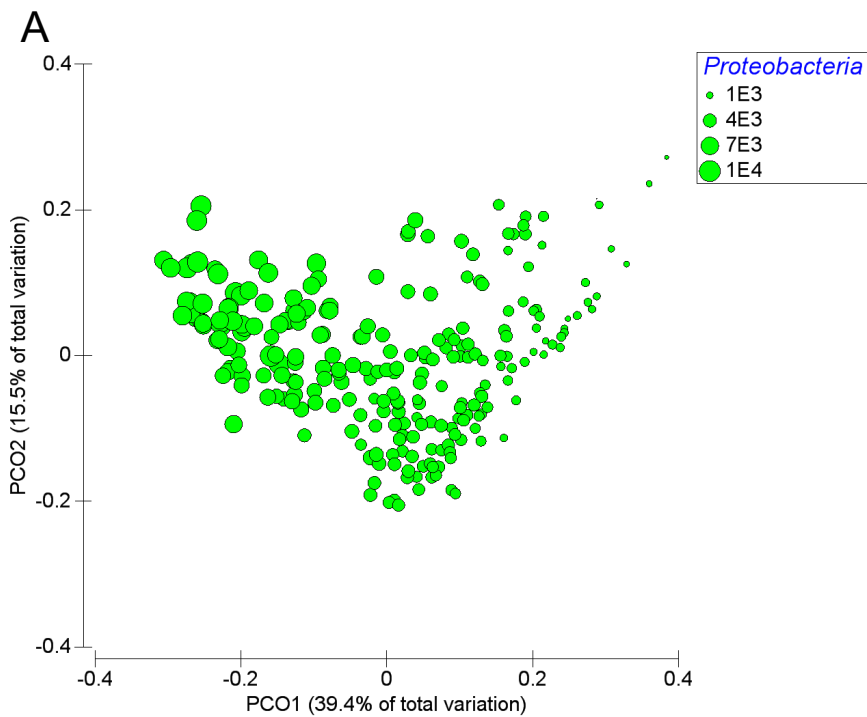
7 **Figure S2.** Principal coordinate plots of weighted UniFrac distances overlaid with the
8 abundance of the Proteobacteria (**A**) and Firmicutes (**B**). Bubbles are scaled according to
9 abundance of each phyla.

10

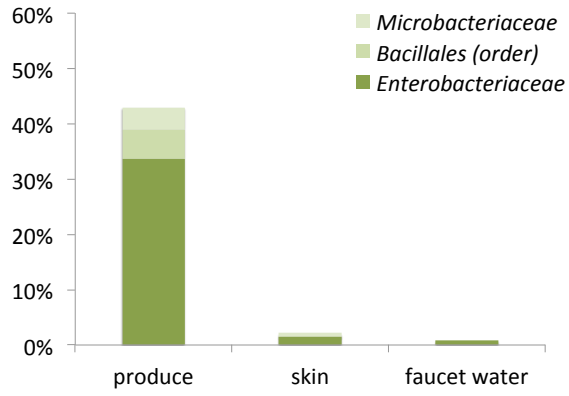
11 **Figure S3.** Indicator taxa identified by SIMPER for raw produce (**A**), human skin
12 (palms) (**B**) and faucet water (**C**).

13

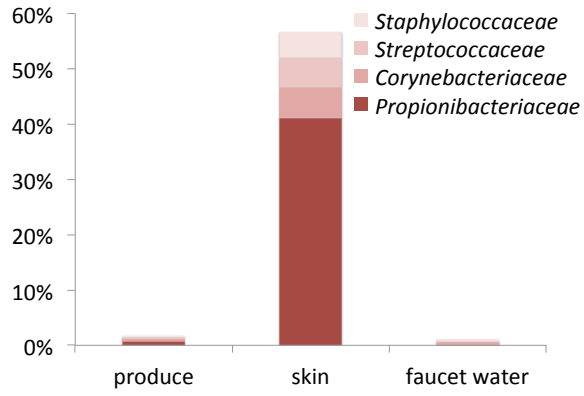
14 **Figure S4.** Results of SourceTracker showing relative contributions of skin (**A**), produce
15 (**B**) and faucet water (**C**) to kitchen surface bacterial communities. Figures are
16 independent of each other and are colored so that the darker shades indicate a relatively
17 higher abundance of bacteria derived from that particular source. Figures not drawn to
18 scale.



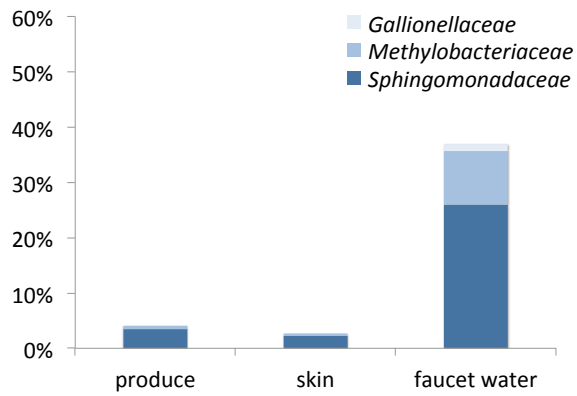
A



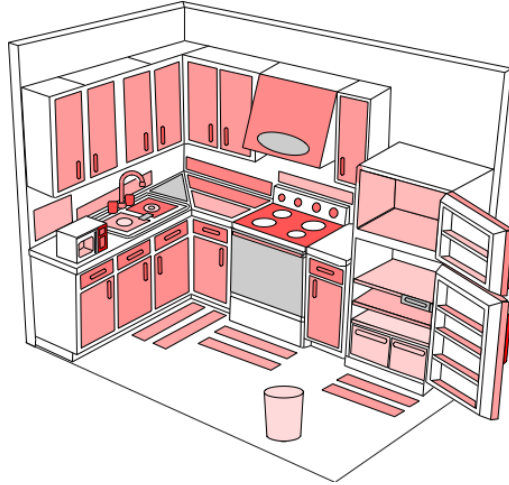
B



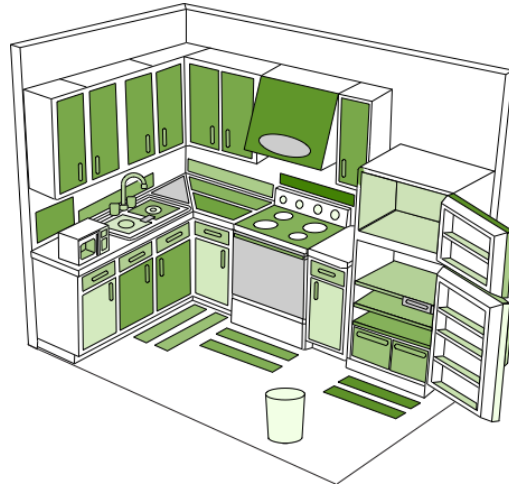
C



A: skin (palm)



B: produce



C: faucet H₂O



Supplementary Table 1. Summary of kitchen surfaces for which over 10,000 quality 16S rRNA gene sequence fragments were obtained and used to examine bacterial biogeography of residential kitchens.

Sample name	Kitchen	Generic surface name	Kitchen area ¹	OTU's observed*	Phylogenetic diversity*
KiA12	A	Lower cabinet door sink	Cabinet - lower	560	33.22
KiA13	A	Lower cabinet handle sink	Cabinet - lower	494	28.64
KiA14	A	Lower cabinet handle	Cabinet - lower	367	24.31
KiA19	A	Countertop back	Counter	208	12.69
KiA26	A	Countertop back	Counter	249	15.60
KiA27	A	Upper cabinet handle	Cabinet - upper	291	18.65
KiA28	A	Upper cabinet door	Cabinet - upper	255	16.62
KiA29	A	Refrigerator handle	Refrigerator - out	449	29.56
KiA34	A	Refrigerator middle shelf	Refrigerator - in	292	18.06
KiA35	A	Refrigerator middle shelf	Refrigerator - in	596	34.36
KiA36	A	Refrigerator bottom shelf	Refrigerator - in	217	12.06
KiA37	A	Refrigerator bottom shelf	Refrigerator - in	484	28.98
KiA39	A	Refrigerator drawer	Refrigerator - in	147	9.65
KiA40	A	Refrigerator interior door	Refrigerator - in	471	31.17
KiA41	A	Refrigerator interior door	Refrigerator - in	408	25.62

KiA43	A	Freezer door	Freezer - out	279	15.82
KiA44	A	Freezer seal	Freezer - out	1,030	56.40
KiA45	A	Freezer interior	Freezer - in	249	16.72
KiA46	A	Freezer interior	Freezer - in	276	17.09
KiA49	A	Lower cabinet handle	Cabinet - lower	301	18.48
KiA50	A	Lower cabinet door	Cabinet - lower	492	30.35
KiA51	A	Countertop front	Counter	338	21.34
KiA52	A	Countertop back	Counter	701	41.85
KiA53	A	Lower cabinet handle	Cabinet - lower	572	34.07
KiA54	A	Lower cabinet door	Cabinet - lower	591	36.72
KiA55	A	Countertop front	Counter	673	39.07
KiA56	A	Countertop back	Counter	651	38.22
KiA58	A	Oven handle	Oven/Stove	233	14.88
KiA59	A	Stove top	Oven/Stove	379	25.11
KiA6	A	Left sink basin	Sink	198	13.69
KiA61	A	Stove fan exterior	Stove fan	1,245	64.04
KiA65	A	Microwave handle	Microwave	291	18.51

KiA66	A	Microwave panel	Microwave	283	18.14
KiA67	A	Microwave interior	Microwave	185	15.52
KiA68	A	Sink floor	Floor	917	50.49
KiA69	A	Sink floor	Floor	1,136	62.52
KiA7	A	Left sink drain	Sink	181	9.90
KiA70	A	Cabinet floor	Floor	1,081	57.36
KiA74	A	Refrigerator floor	Floor	610	36.29
KiA76	A	Wall	Wall/backsplash	509	27.90
KiA77	A	Stove backsplash	Wall/backsplash	689	39.12
KiA8	A	Right sink basin	Sink	149	9.04
KiA82	A	Lower cabinet handle	Cabinet - lower	446	27.54
KiB10	B	Right sink drain	Sink	81	6.38
KiB12	B	Lower cabinet door sink	Cabinet - lower	877	51.42
KiB18	B	Countertop front	Counter	431	26.87
KiB19	B	Countertop back	Counter	894	51.16
KiB2	B	Faucet	Sink	130	8.68
KiB22	B	Lower cabinet handle	Cabinet - lower	397	22.55

KiB23	B	Lower cabinet door	Cabinet - lower	366	24.21
KiB24	B	Drawer	Drawer	634	37.20
KiB26	B	Countertop back	Counter	597	36.24
KiB27	B	Upper cabinet handle	Cabinet - upper	404	23.40
KiB28	B	Upper cabinet door	Cabinet - upper	409	24.62
KiB32	B	Refrigerator top shelf	Refrigerator - in	588	35.37
KiB33	B	Refrigerator top shelf	Refrigerator - in	882	46.00
KiB34	B	Refrigerator middle shelf	Refrigerator - in	1,071	56.72
KiB35	B	Refrigerator middle shelf	Refrigerator - in	489	30.16
KiB36	B	Refrigerator bottom shelf	Refrigerator - in	1,077	54.97
KiB37	B	Refrigerator bottom shelf	Refrigerator - in	918	47.83
KiB38	B	Refrigerator drawer	Refrigerator - in	378	24.05
KiB39	B	Refrigerator drawer	Refrigerator - in	403	23.52
KiB40	B	Refrigerator interior door	Refrigerator - in	447	28.46
KiB42	B	Freezer handle	Freezer - out	408	24.14
KiB43	B	Freezer door	Freezer - out	478	29.04
KiB44	B	Freezer seal	Freezer - out	1,006	54.09

KiB46	B	Freezer interior	Freezer - in	479	28.56
KiB47	B	Freezer interior door	Freezer - in	329	18.88
KiB48	B	Freezer interior	Freezer - in	657	37.84
KiB49	B	Lower cabinet handle	Cabinet - lower	444	26.48
KiB5	B	Left sink basin	Sink	269	17.03
KiB50	B	Lower cabinet door	Cabinet - lower	508	29.62
KiB51	B	Countertop front	Counter	446	25.50
KiB52	B	Countertop back	Counter	429	23.48
KiB54	B	Lower cabinet door	Cabinet - lower	683	40.25
KiB57	B	Stove knobs	Oven/Stove	331	18.95
KiB59	B	Stove top	Oven/Stove	585	35.78
KiB6	B	Left sink basin	Sink	115	9.62
KiB61	B	Stove fan exterior	Stove fan	1,068	59.23
KiB62	B	Lower cabinet handle	Cabinet - lower	772	42.02
KiB63	B	Lower cabinet handle	Cabinet - lower	655	38.80
KiB66	B	Microwave panel	Microwave	476	28.01
KiB68	B	Sink floor	Floor	926	54.03

KiB69	B	Sink floor	Floor	806	47.19
KiB7	B	Left sink drain	Sink	133	9.04
KiB70	B	Cabinet floor	Floor	794	46.28
KiB71	B	Cabinet floor	Floor	561	33.28
KiB72	B	Cabinet floor	Floor	689	40.90
KiB73	B	Cabinet floor	Floor	969	53.96
KiB74	B	Refrigerator floor	Floor	833	48.12
KiB75	B	Refrigerator floor	Floor	950	51.59
KiB76	B	Wall	Wall/backsplash	662	37.45
KiB77	B	Stove backsplash	Wall/backsplash	358	23.87
KiB78	B	Sink backsplash	Wall/backsplash	524	29.91
KiB79	B	Wall	Wall/backsplash	415	24.68
KiB8	B	Right sink basin	Sink	239	15.27
KiB81	B	Counter backsplash	Wall/backsplash	341	21.55
KiB82	B	Counter backsplash	Wall/backsplash	375	23.41
KiB9	B	Right sink basin	Sink	248	15.44
KiC1	C	Faucet handle	Sink	186	11.12

KiC10	C	Right sink drain	Sink	225	13.46
KiC11	C	Lower cabinet handle sink	Cabinet - lower	491	31.31
KiC12	C	Lower cabinet door sink	Cabinet - lower	587	36.13
KiC13	C	Lower cabinet handle sink	Cabinet - lower	461	29.82
KiC14	C	Lower cabinet door sink	Cabinet - lower	905	48.36
KiC15	C	Lower cabinet handle	Cabinet - lower	608	38.04
KiC16	C	Lower cabinet door	Cabinet - lower	351	20.21
KiC18	C	Countertop front	Counter	333	23.70
KiC19	C	Countertop back	Counter	562	36.22
KiC2	C	Faucet	Sink	223	14.88
KiC20	C	Upper cabinet handle	Cabinet - upper	380	24.70
KiC22	C	Lower cabinet handle	Cabinet - lower	275	16.00
KiC24	C	Drawer	Drawer	348	21.46
KiC25	C	Countertop front	Counter	141	9.80
KiC26	C	Countertop back	Counter	557	36.06
KiC28	C	Upper cabinet door	Cabinet - upper	1,019	55.30
KiC29	C	Refrigerator handle	Refrigerator - out	398	26.65

KiC30	C	Refrigerator door	Refrigerator - out	316	20.58
KiC31	C	Refrigerator seal	Refrigerator - out	572	34.58
KiC32	C	Refrigerator top shelf	Refrigerator - in	307	19.13
KiC33	C	Refrigerator top shelf	Refrigerator - in	425	27.25
KiC34	C	Refrigerator middle shelf	Refrigerator - in	514	31.10
KiC35	C	Refrigerator middle shelf	Refrigerator - in	467	28.60
KiC36	C	Refrigerator bottom shelf	Refrigerator - in	535	31.11
KiC37	C	Refrigerator bottom shelf	Refrigerator - in	277	16.75
KiC38	C	Refrigerator drawer	Refrigerator - in	681	34.88
KiC39	C	Refrigerator drawer	Refrigerator - in	536	30.76
KiC40	C	Refrigerator interior door	Refrigerator - in	212	13.55
KiC41	C	Refrigerator interior door	Refrigerator - in	392	25.49
KiC42	C	Freezer handle	Freezer - out	347	22.36
KiC43	C	Freezer door	Freezer - out	250	18.06
KiC44	C	Freezer seal	Freezer - out	559	35.92
KiC45	C	Freezer interior	Freezer - in	440	27.15
KiC46	C	Freezer interior	Freezer - in	413	28.82

KiC48	C	Freezer interior door	Freezer - in	130	10.51
KiC5	C	Left sink basin	Sink	283	17.35
KiC50	C	Lower cabinet door	Cabinet - lower	253	16.18
KiC51	C	Countertop front	Counter	401	27.70
KiC52	C	Countertop back	Counter	972	55.94
KiC53	C	Lower cabinet handle	Cabinet - lower	221	13.39
KiC54	C	Lower cabinet door	Cabinet - lower	373	23.24
KiC55	C	Countertop front	Counter	366	26.28
KiC56	C	Countertop back	Counter	430	28.41
KiC57	C	Stove knobs	Oven/Stove	355	23.71
KiC58	C	Oven handle	Oven/Stove	236	16.01
KiC59	C	Stove top	Oven/Stove	292	22.28
KiC6	C	Left sink basin	Sink	299	18.02
KiC62	C	Lower cabinet handle	Cabinet - lower	209	13.57
KiC64	C	Drawer	Drawer	330	23.32
KiC68	C	Sink floor	Floor	1,495	78.35
KiC69	C	Sink floor	Floor	1,493	77.48

KiC7	C	Left sink drain	Sink	285	16.79
KiC70	C	Cabinet floor	Floor	1,375	74.39
KiC71	C	Cabinet floor	Floor	1,422	75.00
KiC72	C	Cabinet floor	Floor	1,506	79.39
KiC73	C	Cabinet floor	Floor	1,404	73.90
KiC74	C	Refrigerator floor	Floor	1,400	75.37
KiC75	C	Refrigerator floor	Floor	1,557	80.35
KiC76	C	Wall	Wall/backsplash	663	42.34
KiC77	C	Stove backsplash	Wall/backsplash	599	39.30
KiC78	C	Sink backsplash	Wall/backsplash	382	26.55
KiC8	C	Right sink basin	Sink	255	15.25
KiC80	C	Wall	Wall/backsplash	450	28.66
KiC81	C	Counter backsplash	Wall/backsplash	445	30.55
KiC82	C	Counter backsplash	Wall/backsplash	489	32.82
KiC83	C	Garbage can	Other	388	24.10
KiC84	C	Garbage disposal	Sink	357	24.16
KiC9	C	Right sink basin	Sink	208	11.95

KiD1	D	Faucet handle	Sink	392	23.97
KiD10	D	Right sink drain	Sink	154	8.50
KiD11	D	Lower cabinet handle sink	Cabinet - lower	366	22.00
KiD12	D	Lower cabinet door sink	Cabinet - lower	481	28.17
KiD13	D	Lower cabinet handle sink	Cabinet - lower	330	18.90
KiD14	D	Lower cabinet door sink	Cabinet - lower	546	31.71
KiD15	D	Lower cabinet handle	Cabinet - lower	620	37.45
KiD16	D	Lower cabinet door	Cabinet - lower	415	23.36
KiD17	D	Drawer	Drawer	386	24.19
KiD19	D	Countertop back	Counter	598	33.97
KiD2	D	Faucet	Sink	173	11.97
KiD20	D	Upper cabinet handle	Cabinet - upper	305	19.11
KiD21	D	Upper cabinet door	Cabinet - upper	352	20.82
KiD24	D	Drawer	Drawer	494	30.69
KiD25	D	Countertop front	Counter	739	41.02
KiD26	D	Countertop back	Counter	954	51.65
KiD27	D	Upper cabinet handle	Cabinet - upper	376	23.54

KiD28	D	Upper cabinet door	Cabinet - upper	467	26.31
KiD29	D	Refrigerator handle	Refrigerator - out	248	16.11
KiD3	D	Faucet water	Water	62	5.29
KiD30	D	Refrigerator door	Refrigerator - out	406	24.80
KiD31	D	Refrigerator seal	Refrigerator - out	815	45.01
KiD33	D	Refrigerator top shelf	Refrigerator - in	359	20.95
KiD34	D	Refrigerator middle shelf	Refrigerator - in	634	34.79
KiD35	D	Refrigerator lunchmeat drawer	Refrigerator - in	497	28.87
KiD36	D	Refrigerator bottom shelf	Refrigerator - in	470	29.39
KiD37	D	Refrigerator bottom shelf	Refrigerator - in	1,048	52.30
KiD38	D	Refrigerator drawer	Refrigerator - in	740	39.26
KiD39	D	Refrigerator drawer	Refrigerator - in	648	33.98
KiD40	D	Refrigerator interior door	Refrigerator - in	839	46.49
KiD41	D	Refrigerator interior door	Refrigerator - in	741	39.65
KiD42	D	Freezer handle	Freezer - out	283	19.12
KiD43	D	Freezer door	Freezer - out	360	21.63
KiD44	D	Freezer seal	Freezer - out	1,189	59.23

KiD45	D	Freezer interior	Freezer - in	386	20.80
KiD46	D	Freezer interior	Freezer - in	437	23.16
KiD47	D	Freezer interior door	Freezer - in	358	21.34
KiD48	D	Freezer interior door	Freezer - in	319	19.01
KiD49	D	Drawer	Drawer	483	27.79
KiD5	D	Left sink basin	Sink	293	18.56
KiD50	D	Drawer	Drawer	372	21.60
KiD51	D	Countertop front	Counter	671	39.35
KiD52	D	Countertop back	Counter	997	54.15
KiD53	D	Lower cabinet handle	Cabinet - lower	346	23.02
KiD54	D	Lower cabinet door	Cabinet - lower	645	36.49
KiD56	D	Countertop back	Counter	616	36.26
KiD57	D	Stove knobs	Oven/Stove	339	21.27
KiD58	D	Oven handle	Oven/Stove	870	47.23
KiD59	D	Stove top	Oven/Stove	734	42.65
KiD6	D	Left sink basin	Sink	210	13.00
KiD60	D	Stove fan interior	Stove fan	328	21.43

KiD61	D	Stove fan exterior	Stove fan	1,101	55.09
KiD62	D	Upper cabinet handle	Cabinet - upper	560	34.02
KiD63	D	Upper cabinet door	Cabinet - upper	459	25.08
KiD65	D	Microwave handle	Microwave	183	12.01
KiD66	D	Microwave panel	Microwave	290	19.40
KiD67	D	Microwave interior	Microwave	351	20.10
KiD68	D	Sink floor	Floor	1,087	55.30
KiD69	D	Sink floor	Floor	925	47.98
KiD7	D	Left sink drain	Sink	168	11.04
KiD70	D	Cabinet floor	Floor	1,278	63.68
KiD71	D	Cabinet floor	Floor	1,015	52.87
KiD72	D	Cabinet floor	Floor	1,234	62.77
KiD73	D	Cabinet floor	Floor	836	44.39
KiD74	D	Refrigerator floor	Floor	1,330	68.05
KiD75	D	Refrigerator floor	Floor	813	45.52
KiD76	D	Wall	Wall/backsplash	424	22.81
KiD77	D	Stove backsplash	Wall/backsplash	753	42.66

KiD78	D	Sink backsplash	Wall/backsplash	161	9.76
KiD79	D	Wall	Wall/backsplash	463	29.01
KiD8	D	Right sink basin	Sink	313	20.40
KiD80	D	Counter backsplash	Wall/backsplash	489	28.63
KiD81	D	Counter backsplash	Wall/backsplash	890	47.71
KiD82	D	Wall	Wall/backsplash	417	25.13
KiD83	D	Sponge	Other	123	7.88
KiD84	D	Oven door	Oven/Stove	436	27.11
KiD85	D	Garbage can	Other	77	7.79
KiD86	D	Garbage disposal	Sink	184	10.33
KiD87	D	Dish drying pan	Other	260	15.19
KiD9	D	Right sink basin	Sink	151	11.28

¹ Groupings used in ANOSIM tests of beta diversity matrices to test for differences between surface types.
* Alpha-diversity metrics were calculated for 10,000 randomly selected sequences from each sample and averaged across 10 resampling events after sequences classified as “chloroplasts” were removed.

Supplementary Table 2. Average percent abundance of produce indicator taxa across replicate kitchen surfaces.

Kitchen surface	<i>Enterobacteriaceae</i>	<i>Microbacteriaceae</i>	Bacillales	Produce - total
Cabinet floor	1.788	0.488	1.210	3.487
Counter backsplash	4.710	0.273	1.427	6.410
Countertop back	8.149	0.363	2.815	11.327
Countertop front	14.313	0.189	3.447	17.949
Drawer	3.793	0.174	0.939	4.906
Faucet	4.333	0.000	0.973	5.307
Faucet handle	2.020	0.010	0.565	2.595
Freezer door	6.180	0.103	2.715	8.998
Freezer handle	5.920	0.120	1.140	7.180
Freezer interior	2.396	0.205	1.683	4.284
Freezer interior door	3.215	0.220	2.760	6.195
Freezer seal	2.633	0.790	1.610	5.033
Garbage can	0.020	1.355	0.765	2.140
Garbage disposal	0.845	0.030	10.640	11.515
Left sink basin	3.434	0.011	3.117	6.563
Left sink drain	1.868	0.040	10.675	12.583
Lower cabinet door	2.817	1.170	2.387	6.374
Lower cabinet door sink	3.053	0.352	3.020	6.425
Lower cabinet handle	3.018	0.242	7.466	10.726
Lower cabinet handle sink	4.680	0.134	8.934	13.748
Microwave handle	0.740	0.065	2.010	2.815
Microwave interior	1.945	0.120	0.885	2.950
Microwave panel	1.143	0.090	3.557	4.790
Oven handle	3.873	0.077	20.397	24.347
Refrigerator bottom shelf	3.501	0.566	3.865	7.933
Refrigerator door	8.390	0.055	0.810	9.255
Refrigerator drawer	8.350	0.196	3.863	12.409
Refrigerator floor	1.600	0.463	1.573	3.636
Refrigerator handle	6.087	0.020	1.830	7.937
Refrigerator interior door	2.597	0.363	6.594	9.554
Refrigerator middle shelf	5.529	0.257	6.916	12.701
Refrigerator seal	3.035	0.235	0.355	3.625

Refrigerator top shelf	4.496	0.172	0.828	5.496
Right sink basin	4.006	0.010	8.530	12.546
Right sink drain	2.130	0.000	1.550	3.680
Sink backsplash	5.707	0.070	1.130	6.907
Sink floor	1.573	0.494	2.135	4.201
Stove backsplash	13.033	0.453	2.125	15.610
Stove fan exterior	2.023	0.753	0.920	3.697
Stove knobs	4.377	0.190	2.550	7.117
Stove top	7.080	0.133	16.145	23.358
Upper cabinet door	2.293	0.852	2.115	5.260
Upper cabinet handle	2.457	0.210	1.588	4.255
Wall	3.275	0.708	4.983	8.965

Supplementary Table 3. Average percent abundance of palm indicator taxa across all kitchen surfaces.

Kitchen surface	<i>Corynebacteriaceae</i>	<i>Propionibacteriaceae</i>	<i>Staphylococcaceae</i>	<i>Streptococcaceae</i>	Palm - total
Cabinet floor	3.282	0.064	13.200	15.142	31.688
Counter backsplash	1.913	0.038	3.170	2.282	7.403
Countertop back	4.546	0.099	4.392	4.004	13.041
Countertop front	3.567	0.083	4.956	12.444	21.050
Drawer	6.880	0.339	3.369	19.583	30.170
Faucet	0.370	0.050	0.190	0.850	1.460
Faucet handle	3.080	0.205	0.875	7.215	11.375
Freezer door	8.863	0.398	7.630	15.295	32.185
Freezer handle	7.760	0.687	4.743	16.453	29.643
Freezer interior	2.206	0.096	1.531	13.869	17.703
Freezer interior door	1.230	0.125	2.145	2.743	6.243
Freezer seal	5.783	0.130	4.195	4.840	14.948
Garbage can	1.795	0.045	49.290	2.515	53.645
Garbage disposal	0.000	0.000	0.000	0.410	0.410
Left sink basin	0.666	0.030	0.461	7.099	8.256
Left sink drain	0.023	0.000	0.040	0.293	0.355
Lower cabinet door	5.876	0.132	5.522	2.609	14.139
Lower cabinet door sink	5.165	0.183	3.747	3.945	13.040
Lower cabinet handle	9.156	0.381	4.849	11.011	25.398
Lower cabinet handle sink	6.468	0.384	3.196	7.446	17.494
Microwave handle	20.480	0.630	9.660	20.670	51.440
Microwave interior	1.840	0.110	1.575	46.235	49.760
Microwave panel	17.033	1.417	6.770	32.443	57.663
Oven handle	5.513	0.183	3.433	13.367	22.497
Refrigerator bottom shelf	1.090	0.090	1.064	15.259	17.503
Refrigerator door	1.610	0.055	0.845	28.360	30.870
Refrigerator drawer	3.286	0.057	0.826	3.626	7.794
Refrigerator floor	4.269	0.080	15.253	13.396	32.997
Refrigerator handle	21.973	0.497	3.093	12.863	38.427
Refrigerator interior door	4.176	0.309	2.776	12.596	19.856
Refrigerator middle shelf	2.290	0.141	2.780	19.076	24.287
Refrigerator seal	2.285	0.265	4.315	21.330	28.195

Refrigerator top shelf	1.000	0.080	1.198	26.892	29.170
Right sink basin	0.263	0.006	0.096	1.053	1.417
Right sink drain	0.007	0.000	0.010	0.127	0.143
Sink backsplash	0.363	0.007	0.297	1.570	2.237
Sink floor	5.128	0.085	17.065	8.964	31.241
Stove backsplash	1.583	0.108	1.395	2.125	5.210
Stove fan exterior	6.547	0.077	5.180	8.820	20.623
Stove knobs	9.533	0.297	3.203	13.290	26.323
Stove top	3.313	0.048	2.603	4.065	10.028
Upper cabinet door	6.412	0.342	5.722	6.010	18.485
Upper cabinet handle	12.292	0.812	7.040	18.285	38.428
Wall	2.584	0.059	2.308	7.904	12.854

Supplementary Table 4. Average percent abundance of faucet water indicator taxa across all kitchen surfaces.

Kitchen surface	<i>Gallionellaceae</i>	<i>Methylobacteriaceae</i>	<i>Sphingomonadaceae</i>	Faucet water – total
Cabinet floor	0.017	0.909	3.947	4.873
Counter backsplash	0.013	0.682	3.670	4.365
Countertop back	0.048	0.571	4.217	4.837
Countertop front	0.036	0.318	2.194	2.548
Drawer	0.020	0.430	2.359	2.809
Faucet	0.000	4.623	27.483	32.107
Faucet handle	0.020	1.390	6.410	7.820
Freezer door	0.033	0.265	1.398	1.695
Freezer handle	0.057	0.507	2.170	2.733
Freezer interior	0.031	0.641	1.939	2.611
Freezer interior door	0.018	0.465	4.308	4.790
Freezer seal	0.030	0.960	5.538	6.528
Garbage can	0.000	2.325	0.755	3.080
Garbage disposal	0.030	0.040	2.500	2.570
Left sink basin	0.000	0.651	4.863	5.514
Left sink drain	0.000	1.048	4.745	5.793
Lower cabinet door	0.047	0.630	3.963	4.640
Lower cabinet door sink	0.067	0.868	4.393	5.328
Lower cabinet handle	0.136	0.627	3.194	3.958
Lower cabinet handle sink	0.020	1.810	4.602	6.432
Microwave handle	0.035	0.030	0.200	0.265
Microwave interior	0.075	0.730	3.055	3.860
Microwave panel	0.003	0.270	1.293	1.567
Oven handle	0.120	0.483	2.003	2.607
Refrigerator bottom shelf	0.051	0.349	3.008	3.408
Refrigerator door	0.025	0.115	1.515	1.655
Refrigerator drawer	0.041	2.054	2.844	4.940
Refrigerator floor	0.029	0.894	4.014	4.937
Refrigerator handle	0.000	0.197	1.167	1.363
Refrigerator interior door	0.001	0.350	2.054	2.406
Refrigerator middle shelf	0.070	0.353	2.561	2.984
Refrigerator seal	0.005	0.585	2.990	3.580

Refrigerator top shelf	0.010	0.156	1.952	2.118
Right sink basin	0.003	1.654	6.966	8.623
Right sink drain	0.007	0.203	5.827	6.037
Sink backsplash	0.010	0.453	4.770	5.233
Sink floor	0.014	0.920	3.540	4.474
Stove backsplash	0.193	0.523	4.340	5.055
Stove fan exterior	0.007	1.067	6.390	7.463
Stove knobs	0.033	0.790	3.533	4.357
Stove top	0.008	0.368	3.513	3.888
Upper cabinet door	0.107	0.825	7.775	8.707
Upper cabinet handle	0.013	0.237	2.192	2.442
Wall	0.058	1.771	4.910	6.739

Supplementary Table 5. The bacterial communities of the food items listed below were characterized using barcoded pyrosequencing and averaged across all foods to identify bacterial taxa indicative of raw produce (J. W. Leff *et al.*, unpublished data). Note that for all produce items, both conventionally and organically grown produce was characterized.

Food Item	# of replicates
Alfalfa sprouts	10
Apple	17
Bean sprouts	7
Grapes	18
Lettuce	17
Mushrooms	16
Peach	18
Pepper	22
Spinach	20
Strawberries	24
Tomato	23