

Table S2 Differentially abundant taxa between IC and healthy female urine microbiota as estimated by Metastats (<http://metastats.cbcb.umd.edu>)

Taxon	IC urine abundance (n=8)		Healthy Female Urine abundance (n=8)		Metastat p-value	
	V1V2	V6	V1V2	V6	V1V2	V6
Phyla						
Spirochaetes	0.00000 ± 0	0.00000 ± 0	0.00023 ± 0.00023	0.00000 ± 0	0.001	N/A
Fusobacteria	0.00000 ± 0	0.00008 ± 0.00008	0.04300 ± 0.04139	0.01394 ± 0.01350	0.001	0.194
Synergistetes	0.00000 ± 0	0.00000 ± 0	0.00017 ± 0.00017	0.00000 ± 0	0.001	N/A
Fibrobacteres	0.00000 ± 0	0.00000 ± 0	0.00019 ± 0.00019	0.00000 ± 0	0.001	N/A
Acidobacteria	0.00000 ± 0	0.00000 ± 0	0.00023 ± 0.00023	0.00047 ± 0.00047	0.001	0.001
Bacteroidetes	0.01709 ± 0.01507	0.01114 ± 0.00767	0.19597 ± 0.10968	0.16292 ± 0.08882	0.045	0.045
Firmicutes	0.93397 ± 0.03406	0.92278 ± 0.04318	0.62354 ± 0.13265	0.65640 ± 0.12550	0.042	0.057
Tenericutes	0.01027 ± 0.00739	0.00113 ± 0.00076	0.00229 ± 0.00229	0.00025 ± 0.00025	0.202	0.204
Proteobacteria	0.00089 ± 0.00046	0.00285 ± 0.00196	0.01922 ± 0.01766	0.01672 ± 0.01549	0.317	0.644
Actinobacteria	0.03776 ± 0.02349	0.06195 ± 0.03827	0.11512 ± 0.09155	0.14904 ± 0.09922	0.638	0.426
Chloroflexi	0.00000 ± 0	0.00000 ± 0	0.00000 ± 0	0.00021 ± 0.00021	N/A	0.001
Nitrospirae	0.00000 ± 0	0.00005 ± 0.00005	0.00000 ± 0	0.00000 ± 0	N/A	0.001

Order	V1V2		V6		V1V2		V6	
	V1V2	V6	V1V2	V6	V1V2	V6	V1V2	V6
Xanthomonadales	0.00000 ± 0	0.00000 ± 0	0.00020 ± 0.00020	0.00058 ± 0.00058	0.001	0.001		
Spirochaetales	0.00000 ± 0	0.00000 ± 0	0.00024 ± 0.00024	0.00000 ± 0	0.001	N/A		
Sphingobacteriales	0.00000 ± 0	0.00014 ± 0.00014	0.00024 ± 0.00024	0.00094 ± 0.00094	0.001	0.476		
Rhizobiales	0.00000 ± 0	0.00014 ± 0.00014	0.00000 ± 0	0.00045 ± 0.00029	N/A	0.221		
Pasteurellales	0.00036 ± 0.00036	0.00000 ± 0	0.00008 ± 0.00008	0.00000 ± 0	0.511	N/A		
Neisseriales	0.00000 ± 0	0.00023 ± 0.00023	0.00049 ± 0.00049	0.00018 ± 0.00018	0.001	0.443		
Myxococcales	0.00000 ± 0	0.00000 ± 0	0.00000 ± 0	0.00054 ± 0.00054	N/A	0.001		
Mycoplasmatales	0.01027 ± 0.00739	0.00113 ± 0.0008	0.00229 ± 0.00229	0.00026 ± 0.00026	0.194	0.217		
Methylophilales	0.00000 ± 0	0.00012 ± 0.00012	0.00033 ± 0.0002	0.00076 ± 0.0005	0.001	0.221		
Lactobacillales	0.91971 ± 0.04387	0.90650 ± 0.05126	0.52102 ± 0.15793	0.53541 ± 0.15647	0.041	0.053		
Fusobacteriales	0.00000 ± 0	0.00008 ± 0.00008	0.04158 ± 0.04158	0.01421 ± 0.01375	0.001	0.183		
Enterobacteriales	0.00035 ± 0.00035	0.00179 ± 0.00179	0.00000 ± 0	0.00062 ± 0.00062	0.001	0.460		
Desulfuromonadales	0.00000 ± 0	0.00000 ± 0	0.0004 ± 0.00040	0.00000 ± 0	0.001	N/A		
Coriobacteriales	0.00057 ± 0.00039	0.00036 ± 0.00036	0.00048 ± 0.00032	0.00028 ± 0.00028	0.706	0.496		
Clostridiales	0.01239 ± 0.0098	0.01268 ± 0.00824	0.10448 ± 0.07051	0.12014 ± 0.08018	0.175	0.111		
Campylobacteriales	0.00000 ± 0	0.00000 ± 0	0.00215 ± 0.01640	0.00921 ± 0.00921	0.001	0.001		
Burkholderiales	0.00018 ± 0.00018	0.00000 ± 0	0.00063 ± 0.0005	0.00138 ± 0.00921	0.483	0.001		
Bifidobacteriales	0.01840 ± 0.01776	0.0301 ± 0.02797	0.10829 ± 0.09246	0.13671 ± 0.10128	0.646	0.417		
Bdellovibrionales	0.00000 ± 0	0.00000 ± 0	0.00000 ± 0	0.00098 ± 0.00098	N/A	0.001		
Bacteroidales	0.01711 ± 0.01508	0.01092 ± 0.00781	0.19496 ± 0.10973	0.16243 ± 0.09076	0.029	0.045		
Bacillales	0.00183 ± 0.00096	0.00349 ± 0.00188	0.00074 ± 0.00043	0.00132 ± 0.00059	0.337	0.362		
Actinomycetales	0.01881 ± 0.01849	0.03198 ± 0.03144	0.00652 ± 0.00614	0.01343 ± 0.00958	0.757	0.967		

Genus	V1V2		V6		V1V2		V6	
	V1V2	V6	V1V2	V6	V1V2	V6	V1V2	V6
Proteus	0.00024 ± 0.00024	0.00024 ± 0.00024	0.00000 ± 0	0.00000 ± 0	0.001	0.001		
Pelobacter	0.00000 ± 0	0.00000 ± 0	0.00051 ± 0.00051	0.00000 ± 0	0.001	N/A		
Campylobacter	0.00000 ± 0	0.00000 ± 0	0.00025 ± 0.00025	0.00000 ± 0	0.001	N/A		
Wolinella	0.00000 ± 0	0.00000 ± 0	0.00026 ± 0.00026	0.00000 ± 0	0.001	N/A		
Acidovorax	0.00000 ± 0	0.00000 ± 0	0.00026 ± 0.00026	0.00000 ± 0	0.001	N/A		
Methylophilus	0.00000 ± 0	0.00000 ± 0	0.00008 ± 0.00008	0.00000 ± 0	0.001	N/A		
Bacteroides	0.00092 ± 0.00092	0.00018 ± 0.00018	0.00000 ± 0	0.00018 ± 0.00018	0.001	0.472		
Streptococcus	0.00000 ± 0	0.00095 ± 0.00051	0.00149 ± 0.00133	0.00530 ± 0.00245	0.001	0.131		
Enterococcus	0.00032 ± 0.00032	0.00114 ± 0.00114	0.00000 ± 0	0.00000 ± 0	0.001	0.001		
Aerococcus	0.00000 ± 0	0.00000 ± 0	0.00539 ± 0.00439	0.00012 ± 0.00012	0.001	0.001		
Coprococcus	0.00000 ± 0	0.00000 ± 0	0.00039 ± 0.00039	0.00000 ± 0	0.001	N/A		
Megasphaera	0.00000 ± 0	0.00000 ± 0	0.02339 ± 0.02223	0.00000 ± 0	0.001	N/A		
Peptostreptococcus	0.00000 ± 0	0.00000 ± 0	0.02516 ± 0.02516	0.00000 ± 0	0.001	N/A		
Eubacterium	0.00000 ± 0	0.00000 ± 0	0.00079 ± 0.00065	0.00000 ± 0	0.001	N/A		
Ruminococcus	0.00000 ± 0	0.00000 ± 0	0.00012 ± 0.00012	0.00000 ± 0	0.001	N/A		
Faecalibacterium	0.00000 ± 0	0.00026 ± 0.00026	0.00187 ± 0.00177	0.00205 ± 0.00189	0.001	0.438		
Actinobaculum	0.00000 ± 0	0.00016 ± 0.00016	0.00056 ± 0.00056	0.00269 ± 0.00219	0.001	0.210		
Mobiluncus	0.00000 ± 0	0.00000 ± 0	0.00118 ± 0.00118	0.00275 ± 0.00275	0.001	0.001		
Propionibacterium	0.00000 ± 0	0.00024 ± 0.00024	0.00041 ± 0.0004	0.00000 ± 0	0.001	0.001		
Propionimicrobium	0.00000 ± 0	0.00000 ± 0	0.00007 ± 0.00007	0.00000 ± 0	0.001	N/A		
Bifidobacterium	0.00057 ± 0.00037	0.00169 ± 0.00115	0.00000 ± 0	0.00037 ± 0.00037	0.001	0.193		
Atopobium	0.00058 ± 0.00039	0.00036 ± 0.00036	0.00000 ± 0	0.00000 ± 0	0.001	0.001		
Lactobacillus	0.92386 ± 0.04189	0.91319 ± 0.04710	0.52676 ± 0.15829	0.52209 ± 0.16405	0.036	0.050		
Prevotella	0.01421 ± 0.01261	0.00913 ± 0.00703	0.21109 ± 0.11331	0.18262 ± 0.10803	0.049	0.043		
Dialister	0.00048 ± 0.00028	0.00000 ± 0	0.00465 ± 0.00351	0.00267 ± 0.00193	0.081	0.001		
Anaerococcus	0.00009 ± 0.00009	0.00216 ± 0.00091	0.00169 ± 0.00142	0.04751 ± 0.04376	0.198	0.331		
Ureaplasma	0.01030 ± 0.00742	0.00114 ± 0.00077	0.00231 ± 0.00231	0.00026 ± 0.00026	0.200	0.217		
Gardnerella	0.01788 ± 0.01788	0.02777 ± 0.02754	0.11642 ± 0.09295	0.14113 ± 0.10249	0.208	0.400		
Peptoniphilus	0.00139 ± 0.00093	0.00334 ± 0.00247	0.01245 ± 0.00931	0.02174 ± 0.01457	0.267	0.388		
Allisonella	0.00214 ± 0.00201	0.00000 ± 0	0.01576 ± 0.01288	0.00000 ± 0	0.271	N/A		
Veillonella	0.00051 ± 0.00033	0.00000 ± 0	0.00298 ± 0.00223	0.00000 ± 0	0.351	N/A		
Finegoldia	0.00105 ± 0.00054	0.00178 ± 0.00114	0.03175 ± 0.03049	0.03799 ± 0.03652	0.402	0.524		
Dysgonomonas	0.00018 ± 0.00018	0.00000 ± 0	0.00024 ± 0.00024	0.00000 ± 0	0.457	N/A		
Facklamia	0.00017 ± 0.00017	0.00070 ± 0.00070	0.00056 ± 0.00056	0.00072 ± 0.00072	0.458	0.468		
Actinomyces	0.00028 ± 0.00028	0.00037 ± 0.00037	0.00405 ± 0.00405	0.00580 ± 0.00580	0.458	0.468		
Staphylococcus	0.00090 ± 0.00083	0.00362 ± 0.00195	0.00018 ± 0.00018	0.00144 ± 0.00064	0.465	0.388		
Sutterella	0.00019 ± 0.00019	0.00000 ± 0	0.00010 ± 0.00010	0.00000 ± 0	0.482	N/A		
Helcococcus	0.00405 ± 0.00405	0.00000 ± 0	0.00010 ± 0.00010	0.00000 ± 0	0.487	N/A		
Porphyromonas	0.00229 ± 0.00209	0.00115 ± 0.0008	0.00588 ± 0.00452	0.00153 ± 0.00086	0.587	0.585		
Corynebacterium	0.01740 ± 0.01740	0.02948 ± 0.02948	0.00077 ± 0.00054	0.00161 ± 0.00079	0.745	0.859		
Cronobacter	0.00000 ± 0	0.0004 ± 0.0004	0.00000 ± 0	0.00000 ± 0	N/A	0.001		
Bdellovibrio	0.00000 ± 0	0.00000 ± 0	0.00000 ± 0	0.00132 ± 0.00132	N/A	0.001		
Methylobacter	0.00000 ± 0	0.00000 ± 0	0.00000 ± 0	0.00023 ± 0.00023	N/A	0.001		
Sneathia	0.00000 ± 0	0.00000 ± 0	0.00000 ± 0	0.01584 ± 0.01584	N/A	0.001		
Eggerthella	0.00000 ± 0	0.00000 ± 0	0.00000 ± 0	0.00034 ± 0.00034	N/A	0.001		
Ochrobactrum	0.00000 ± 0	0.00014 ± 0.00014	0.00000 ± 0	0.00023 ± 0.00023	N/A	0.464		
Fusobacterium	0.00000 ± 0	0.00009 ± 0.00009	0.00000 ± 0	0.00054 ± 0.00054	N/A	0.468		
Varibaculum	0.00000 ± 0	0.00024 ± 0.00024	0.00000 ± 0	0.00042 ± 0.00042	N/A	0.468		
Microbacterium	0.00000 ± 0	0.00000 ± 0	0.00000 ± 0	0.00046 ± 0.00046	N/A	0.001		

All phylum, order and genus levels (mean ± std.err.) are listed.

Taxa in bold are those who are significantly ($p \leq 0.05$) different between the two communities, by either V1V2 or V6 method.

N/A : no p-value available