

**Supplementary Table S4. Differences in abundance of bacterial communities at species level as assessed by LEfSe**

<b>Taxon name</b>	<b>LDA effect size</b>	<b>q-value</b>	<b>Post PBS</b>	<b>Post IRT</b>
<b>Increased</b>				
Lactobacillus helveticus group	4.72199	0.04025	0.00792	10.55205
Lactobacillus reuteri group	4.50721	0.04030	3.35561	9.78576
KE159605_s	4.17923	0.04015	1.04655	4.06811
Akkermansia muciniphila	4.01570	0.03431	0.00351	2.07690
EF602942_s	3.95531	0.03913	0.55552	2.35972
EF406725_s	3.87094	0.03439	0.00140	1.48702
Streptococcus salivarius group	3.81565	0.02891	0.00000	1.30800
Lactobacillus casei group	3.64580	0.03467	0.00070	0.88525
AB606258_s	3.57744	0.03821	0.15352	0.90916
EF603663_s	3.27237	0.03443	0.00070	0.37491
Eubacterium_g23_uc	3.18161	0.02855	0.00000	0.30341
EU457191_s	3.15768	0.03451	0.01612	0.30346
EU622736_s	3.05893	0.02888	0.00000	0.22878
EF098800_s	2.93782	0.03883	0.09017	0.26312
AB185622_s	2.91657	0.03812	0.03215	0.19696
JQ084674_s	2.89708	0.04009	0.10790	0.26536
EU456711_s	2.86116	0.02885	0.00000	0.14494
JQ809688_s	2.83217	0.02898	0.00000	0.13550
Lactobacillus hamsteri	2.73910	0.02908	0.00000	0.10918
Bifidobacterium bifidum	2.70465	0.02878	0.00000	0.10083
AB606400_s	2.60258	0.02868	0.00000	0.07975
AB606283_s	2.59294	0.02865	0.00000	0.07810
Lactobacillus amylovorus group	2.48917	0.02901	0.00000	0.06131
JN713389_g_uc	2.46472	0.03798	0.00728	0.06480
Aerococcus viridans group	2.40735	0.02872	0.00000	0.05076
EF406589_g_uc	2.32092	0.03788	0.00904	0.04973
DQ815799_s	2.30751	0.02881	0.00000	0.03960
EF604636_s	2.26012	0.03938	0.00221	0.03825
EF604965_s	2.24976	0.03953	0.00511	0.04035
EF603305_s	2.15773	0.03471	0.00301	0.03099
DQ815556_s	2.14489	0.03864	0.00674	0.03367
PAC000673_g_uc	2.03560	0.02862	0.00000	0.02115
Lactobacillus brantae group	2.01757	0.02905	0.00000	0.01965
<b>Decreased</b>				
AJ400262_s	4.31015	0.03850	4.27360	0.18893

EF603669_s	4.03261	0.03918	2.68468	0.52895
FJ879254_s	4.00329	0.03994	3.33471	1.31978
Eisenbergiella_uc	3.43813	0.03793	0.85308	0.30500
Parabacteroides_uc	3.39257	0.03807	0.73181	0.23849
HQ740257_s	3.37857	0.04004	0.48327	0.00537
FJ678358_s	3.34987	0.03989	0.61388	0.16678
EF604822_s	3.34826	0.03948	0.75529	0.30956
EF405130_s	3.14639	0.03898	0.45765	0.17815
AB606381_s	3.13624	0.03840	0.36261	0.08940
Escherichia coli group	3.11119	0.03958	0.30426	0.04655
EU458103_s	3.09340	0.03973	0.40677	0.15929
FJ880834_s	3.05327	0.03999	0.30188	0.07644
EU511112_s	3.02506	0.03984	0.23662	0.02548
EF099428_s	2.98944	0.03893	0.33442	0.13984
DQ815445_s	2.97410	0.03859	0.20590	0.01778
DQ815411_s	2.94484	0.03854	0.27334	0.09760
EF604701_s	2.93780	0.03943	0.28300	0.11064
AB606367_s	2.89469	0.03835	0.19500	0.03834
EF603964_s	2.87613	0.03933	0.16600	0.01625
EF099352_s	2.86377	0.03888	0.80682	0.66127
EF603786_s	2.85278	0.03923	0.24206	0.10050
AB606333_s	2.83530	0.03830	0.18300	0.04735
EU509975_s	2.82349	0.01938	0.13223	0.00000
EF098562_s	2.81147	0.03879	0.14142	0.01313
AB626950_s	2.77697	0.03845	0.20661	0.08770
PAC000687_s	2.75609	0.02820	0.11448	0.00114
EF098118_s	2.62737	0.03874	0.11051	0.02621
FJ881271_s	2.57284	0.02817	0.07347	0.00111
EF602810_s	2.53034	0.03908	0.09981	0.03281
AB606252_s	2.46991	0.03816	0.08880	0.03094
EF604598_s	2.45824	0.01936	0.00299	0.00000
AJ400261_s	2.40448	0.02811	0.04819	0.00114
EF406589_s	2.35629	0.03903	0.05974	0.01895
EF603862_s	2.34910	0.03928	0.07395	0.03021
ADDX_s	2.33330	0.03427	0.04061	0.00205
JQ083859_s	2.32452	0.03463	0.04631	0.00758
AM183003_s	2.30007	0.01932	0.02788	0.00000
HM124260_g_uc	2.24703	0.03419	0.03143	0.00305
HM845298_s	2.23538	0.03459	0.03259	0.00239
EU845632_s	2.23285	0.01940	0.00735	0.00000

KE159781_s	2.18620	0.04020	0.02308	0.00324
KE159600_g_uc	2.17160	0.02805	0.02683	0.00227
EU454374_s	2.15556	0.03968	0.02792	0.00494
EU462959_s	2.14916	0.03978	0.02639	0.00369
AB009176_g_uc	2.14112	0.01930	0.00519	0.00000
LLKB_g_uc	2.12040	0.03802	0.02808	0.00221
Clostridium_g18_uc	2.08712	0.03415	0.02041	0.00379
EU452797_s	2.06331	0.03963	0.01957	0.00368
AB606397_s	2.03025	0.02808	0.00953	0.00111
EU504286_s	2.01065	0.02814	0.01120	0.00056
EF097676_s	2.00820	0.03869	0.04597	0.02591
EU771312_s	2.00070	0.03455	0.01787	0.00353

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