

Table S6a The correlation statistics between OTUs and host metabolic parameters

Variable1	Variable2	Correlation	P value	Support	Corrected_pvalue
OTU_2430	Cholesterol	0.570349	0.000122	40	0.0018
OTU_53	Cholesterol	0.564928	0.000146	40	0.0018
OTU_53	eAT.MCP.1.mRNA	0.519706	0.000589	40	0.004
OTU_53	eAT.adipocyte.size	0.540055	0.000322	40	0.0026
OTU_356	eAT.CD11c.mRNA	0.518185	0.000615	40	0.004
OTU_356	eAT.MCP.1.mRNA	0.573966	0.000108	40	0.0017
OTU_356	eAT.adipocyte.size	0.516691	0.000642	40	0.0041
OTU_564	Cholesterol	0.500373	0.001009	40	0.0053
OTU_564	eAT.CD11c.mRNA	0.565681	0.000175	39	0.0019
OTU_564	eAT.adipocyte.size	0.513748	0.000822	39	0.0046
OTU_30	eAT.CD11c.mRNA	0.528507	0.000543	39	0.0038
OTU_30	eAT.adipocyte.size	0.502777	0.001106	39	0.0056
OTU_58	Cholesterol	0.604627	0.000194	33	0.002
OTU_58	eAT.MCP.1.mRNA	0.573073	0.000753	31	0.0044
OTU_26	Fasting.insulin	0.57999	0.000135	38	0.0018
OTU_26	HOMA.IR	0.579073	0.00014	38	0.0018
OTU_26	Serum.LBP	0.567072	0.000311	36	0.0026
OTU_26	eAT.CD11c.mRNA	0.55874	0.000486	35	0.0035
OTU_2850	Serum.LBP	0.719498	0.003722	14	0.013
OTU_2850	Cholesterol	0.722604	0.005268	13	0.016
OTU_2850	Liver.TNF.a.mRNA	0.617444	0.024547	13	0.0442
OTU_2850	eAT.TNF.a.mRNA	0.599102	0.030484	13	0.0536
OTU_2850	eAT.CD11c.mRNA	0.806289	0.000871	13	0.0048
OTU_2850	eAT.MCP.1.mRNA	0.726912	0.004878	13	0.0156
OTU_2850	eAT.adipocyte.size	0.672447	0.033142	10	0.0579
OTU_1682	Serum.LBP	0.665447	0.009394	14	0.0223
OTU_1682	Liver.TNF.a.mRNA	0.728663	0.003117	14	0.0117
OTU_1682	Jejunum.TNF.a.mRNA	0.540665	0.045909	14	0.0758
OTU_1682	eAT.TNF.a.mRNA	0.721615	0.003574	14	0.0128
OTU_1682	eAT.CD11c.mRNA	0.694161	0.005881	14	0.0164
OTU_1682	eAT.MCP.1.mRNA	0.755491	0.001779	14	0.0078
OTU_1682	eAT.adipocyte.size	0.793886	0.006106	10	0.0167
OTU_20	Cholesterol	0.513162	0.000709	40	0.0043
OTU_44	Liver.TNF.a.mRNA	-0.59191	0.000719	29	0.0043
OTU_2	eAT.TNF.a.mRNA	-0.63621	0.001933	21	0.0084
OTU_2	eAT.weight	-0.51031	0.002412	33	0.0097
OTU_3035	Fasting.blood.glucose	-0.60266	0.006314	19	0.0171
OTU_3035	eAT.TNF.a.mRNA	-0.79505	0.000677	14	0.0042
OTU_3035	eAT.MCP.1.mRNA	-0.70197	0.005132	14	0.0159
OTU_3035	eAT.weight	-0.53662	0.014712	20	0.0306
OTU_48	Liver.TNF.a.mRNA	-0.56465	0.000222	38	0.0022
OTU_48	eAT.adipocyte.size	-0.57135	0.000145	39	0.0018
OTU_45	Serum.LBP	-0.51722	0.002434	32	0.0097
OTU_45	Cholesterol	-0.59229	0.000178	35	0.0019
OTU_45	Liver.TNF.a.mRNA	-0.53923	0.000999	34	0.0053
OTU_45	eAT.CD11c.mRNA	-0.50578	0.002277	34	0.0096
OTU_98	eAT.adipocyte.size	-0.54768	0.000372	38	0.0028
OTU_84	Liver.TNF.a.mRNA	-0.52257	0.000764	38	0.0044
OTU_84	Liver.LBP.mRNA	-0.50956	0.001085	38	0.0056
OTU_84	eAT.adipocyte.size	-0.56263	0.000236	38	0.0022
OTU_67	eAT.MCP.1.mRNA	-0.56852	0.000242	37	0.0022
OTU_110	Fasting.blood.glucose	-0.55853	0.000327	37	0.0026
OTU_110	AUC.of.OGTT	-0.51271	0.001176	37	0.0058
OTU_110	eAT.CD11c.mRNA	-0.58897	0.001548	26	0.0069
OTU_110	eAT.MCP.1.mRNA	-0.55544	0.003223	26	0.0119
OTU_110	eAT.adipocyte.size	-0.62091	0.000926	25	0.005