

**Table S2.** Correlation analysis between gut microbial abundance and plasma levels of cytokines and chemokines

	Phylum			Family			Genus		
	Name	rho	p-value	Name	rho	p-value	Name	rho	p-value
IL1β (pg/mL)				Oxalobacteraceae	-0.455	0.009*			
IL5 (pg/mL)							<i>Desulfovibrio</i>	+0.376	0.034
IL6 (pg/mL)				Alcaligenaceae	+0.418	0.017	<i>Desulfovibrio</i> <i>Pigmentiphaga</i>	+0.364 +0.383	0.041 0.030
IL9 (pg/mL)	Firmicutes	-0.399	0.024	Lachnospiraceae	-0.350	0.049	<i>Oscillospira</i>	-0.381	0.032
IL10 (pg/mL)							<i>Sutterella</i>	-0.383	0.031
IL13 (pg/mL)				Barnesiellaceae	-0.363	0.041	<i>Barnesiella</i>	-0.363	0.041
IL17A (CTLA8) (pg/mL)				Paraprevotellaceae	+0.401	0.023	<i>Paraprevotella</i>	+0.401	0.023
IL18 (pg/mL)	Firmicutes	-0.407	0.021	Turicibacteraceae	-0.415	0.018	<i>Turicibacter</i>	-0.415	0.018
IL22 (pg/mL)							<i>Clostridium</i>	+0.467	0.007*
IL23 (pg/mL)				Oxalobacteraceae	+0.378	0.033			
TNFα (pg/mL)				Rikenellaceae	-0.363	0.041	<i>Alistipes</i>	-0.380	0.032
GM-CSF (pg/mL)				Lactobacillaceae	-0.526	0.002*	<i>Lactobacillus</i>	-0.526	0.002*
MIP2a (CXCL2) (pg/mL)	Firmicutes	-0.427	0.015	Ruminococcaceae Desulfovibrionaceae	-0.461 -0.371	0.008* 0.031	<i>Oscillospira</i> <i>Bilophila</i>	-0.464 -0.458	0.007* 0.008*
IP10 (CXCL10) (pg/mL)	Tenericutes	-0.376	0.034	Anaeroplasmataceae	-0.376	0.034	<i>Oscillospira</i> <i>Anaeroplasma</i>	-0.351 -0.376	0.049 0.034
MIP1b (CCL4) (pg/mL)				Rikenellaceae	-0.366	0.039			
MCP3 (CCL7) (pg/mL)	Firmicutes	-0.450	0.010	Ruminococcaceae	-0.430	0.014	<i>Desulfovibrio</i> <i>Oscillospira</i> <i>Bilophila</i>	-0.361 -0.492 -0.441	0.042 0.004* 0.012

**Abbreviations:** rho, Spearman correlation coefficient.  
P-values were adjusted for multiple testing correlations; (\*) denotes significant adjusted p<0.05.