

Supplemental Table 3. Correlation between bile acid and gut microbiota in HFD-fed mice

Taxon	Free-																Glyco-					Tauro-									
	Cholic acid	ω-Muricholic acid	α-Muricholic acid	β-Muricholic acid	Chenodeoxycholic acid	Deoxycholic acid	Lithocholic acid	Ursodeoxycholic acid	Ursocholic acid	Hyochoolic acid	Murideoxycholic acid	Hydoxycholic acid	Isodeoxycholic acid	3-Dehydrocholic acid	7-Oxodeoxycholic acid	3-Dehydrodeoxycholic acid	12-Oxolithocholic acid	Cholic acid	Chenodeoxycholic acid	Deoxycholic acid	Lithocholic acid	Ursodeoxycholic acid	Cholic acid	ω-Muricholic acid	α-Muricholic acid	β-Muricholic acid	Chenodeoxycholic acid	Deoxycholic acid	Lithocholic acid	Ursodeoxycholic acid	
<i>g__Adlercreutzia</i>	0.67*	0.55	-0.03	-0.03	0.18	-0.17	0.38	-0.26	0.07	0.35	0.37	-0.18	-0.35	0.49	-0.03	0.42	0.00	-0.21	0.28	0.52	0.53	0.42	-0.84*	0.45	-0.38	-0.79*	0.44	-0.54	0.55	0.30	
<i>o__Bacteroidales; f__Unclassified</i>	-0.15	-0.43	-0.38	-0.46	-0.21	0.25	0.40	0.62*	0.45	-0.18	-0.15	0.71*	0.81*	-0.20	0.51	-0.15	0.62*	0.54	0.15	-0.29	-0.24	-0.28	0.32	-0.07	0.53	0.46	-0.13	0.05	-0.19	0.15	
<i>g__Bacteroides</i>	0.13	0.26	0.45	-0.05	0.38	-0.09	-0.08	-0.64*	-0.26	0.20	0.47	-0.55	-0.53	0.25	-0.51	-0.13	-0.33	-0.03	-0.10	0.30	0.26	0.25	-0.25	-0.10	-0.31	-0.54	0.13	0.32	0.14	0.07	
<i>g__Parabacteroides</i>	0.63*	0.50	0.07	0.35	0.15	-0.47	0.46	0.25	0.36	0.29	0.23	0.32	0.09	0.38	-0.15	0.42	0.48	-0.37	0.20	0.49	0.38	0.59*	-0.72*	0.45	-0.29	-0.47	0.27	-0.63*	-0.03	-0.03	
<i>f__Rikenellaceae; g__Unclassified</i>	-0.21	-0.68*	-0.32	-0.29	-0.10	0.39	0.05	0.39	0.26	-0.27	-0.11	0.43	0.47	-0.31	0.57	-0.27	0.32	0.59*	-0.10	-0.39	-0.37	-0.31	0.45	0.08	0.41	0.65*	-0.12	0.31	-0.28	0.18	
<i>f__S24-7; g__Unclassified</i>	-0.04	-0.69*	-0.59*	-0.28	-0.06	0.47	0.01	0.40	0.29	-0.26	-0.10	0.66*	0.53	-0.28	0.58*	0.00	0.25	0.20	0.01	-0.27	-0.27	-0.19	0.37	0.24	0.35	0.40	0.02	-0.01	-0.10	0.33	
<i>g__[Prevotella]</i>	0.38	0.78*	0.08	0.16	-0.20	-0.66*	0.58*	0.24	0.20	0.15	-0.24	-0.08	0.22	0.25	0.20	0.10	0.36	0.25	0.24	0.00	0.12	-0.10	-0.55	0.07	-0.05	-0.27	-0.13	-0.66*	0.40	-0.20	
<i>g__Mucispirillum</i>	-0.30	-0.50	0.03	-0.58*	-0.05	0.48	-0.05	0.13	-0.10	-0.21	0.08	0.15	0.15	-0.31	0.13	-0.31	0.16	0.17	0.06	-0.32	-0.25	-0.34	0.36	-0.17	0.57	0.37	-0.16	0.69*	-0.14	0.40	
<i>g__Lactobacillus</i>	-0.33	-0.26	-0.45	0.05	-0.31	0.22	-0.34	0.07	-0.01	-0.13	-0.54	-0.12	0.02	-0.15	0.62*	0.06	-0.34	0.35	-0.23	-0.39	-0.37	-0.45	0.40	0.02	-0.03	0.51	-0.06	-0.10	0.03	-0.05	
<i>g__Lactococcus</i>	-0.44	-0.15	-0.27	0.28	-0.27	0.08	-0.50	0.03	-0.11	-0.09	-0.53	-0.10	-0.05	-0.15	0.18	0.14	-0.41	-0.09	-0.27	-0.25	-0.30	-0.25	0.45	-0.16	-0.14	0.42	-0.09	-0.10	-0.18	-0.28	
<i>o__Clostridiales; g__Unclassified</i>	-0.10	-0.83*	-0.52	-0.51	0.06	0.67*	-0.09	0.08	-0.04	-0.22	-0.16	0.26	0.17	-0.30	0.51	-0.05	-0.12	0.07	0.36	-0.21	0.05	-0.31	0.47	0.12	0.66*	0.34	0.00	0.35	0.16	0.20	
<i>f__Lachnospiraceae; g__Unclassified</i>	-0.79*	-0.38	-0.10	0.14	-0.32	0.17	-0.60*	0.16	-0.17	-0.37	-0.48	-0.06	0.14	-0.46	0.18	-0.31	-0.30	0.26	-0.54	-0.55	-0.65*	-0.47	0.82*	-0.47	0.07	0.77*	-0.31	0.36	-0.45	-0.28	
<i>f__Lachnospiraceae; g__Clostridium</i>	-0.51	-0.34	0.29	-0.12	-0.29	0.50	-0.45	-0.28	-0.34	-0.11	0.20	-0.13	-0.27	-0.25	-0.50	-0.26	-0.24	-0.15	-0.21	-0.24	-0.31	-0.18	0.39	-0.31	-0.13	0.32	-0.20	0.48	-0.17	0.26	
<i>g__[Ruminococcus]</i>	-0.53	-0.77*	-0.59*	-0.27	-0.02	0.59*	-0.20	0.32	0.22	-0.25	-0.10	0.60*	0.44	-0.30	0.25	0.01	-0.04	0.11	-0.12	0.01	-0.09	0.05	0.73*	-0.26	0.25	0.43	0.21	0.23	-0.45	-0.12	
<i>f__Ruminococcaceae; g__Unclassified</i>	0.27	0.73*	0.60*	0.78*	-0.22	-0.63*	0.02	-0.08	-0.02	0.18	0.14	-0.30	-0.31	0.22	-0.45	0.01	0.16	-0.11	-0.33	0.02	-0.17	0.22	-0.58*	0.21	-0.77*	-0.12	-0.15	-0.50	-0.07	-0.11	
<i>g__Anaerotruncus</i>	-0.85*	-0.13	0.13	-0.08	-0.25	0.06	-0.54	-0.02	-0.30	-0.31	-0.38	-0.21	0.13	-0.40	-0.12	-0.41	-0.33	0.21	-0.49	-0.55	-0.63*	-0.55	0.78*	-0.76*	0.15	0.50	-0.43	0.78*	0.54	-0.33	-0.20
<i>g__Oscillospira</i>	-0.42	-0.68*	-0.29	-0.76*	0.08	0.64*	-0.02	0.03	0.00	-0.17	0.02	0.21	0.26	-0.24	0.24	-0.24	-0.04	0.34	0.15	-0.13	-0.02	-0.26	0.59*	-0.33	0.61*	0.27	0.03	0.68*	-0.09	0.17	
<i>g__Allobaculum</i>	0.95*	0.30	0.02	0.20	0.42	-0.37	0.26	-0.40	0.23	0.55	0.05	-0.15	-0.21	0.61*	0.05	0.49	0.03	-0.27	0.38	0.24	0.37	0.18	-0.70*	0.78*	-0.26	-0.61*	0.04	-0.51	0.45	0.26	
<i>f__Erysipelotrichaceae; g__Clostridium</i>	0.38	0.86*	0.63*	0.73*	-0.17	-0.87*	0.22	0.10	-0.02	0.14	-0.04	-0.26	-0.13	0.17	-0.37	-0.03	0.32	-0.18	-0.08	-0.03	-0.07	0.11	-0.63*	0.15	-0.40	-0.16	-0.31	-0.52	0.03	-0.27	
<i>g__Sutterella</i>	0.09	0.98*	0.51	0.48	-0.31	-0.75*	0.14	0.06	-0.15	0.07	-0.14	-0.39	-0.14	0.12	-0.29	-0.04	0.11	-0.07	-0.17	-0.08	-0.14	-0.05	-0.49	-0.17	-0.38	-0.21	-0.24	-0.46	0.16	-0.23	
<i>f__Desulfovibrionaceae; g__Unclassified</i>	-0.78*	-0.52	-0.31	-0.09	-0.24	0.36	-0.53	0.21	-0.12	-0.35	-0.43	0.18	0.26	-0.45	0.16	-0.16	-0.28	0.05	-0.32	-0.38	-0.45	-0.36	0.87*	-0.50	0.25	0.62*	-0.16	0.37	-0.40	-0.21	
<i>g__Akkermansia</i>	0.78*	0.66*	0.23	0.30	0.17	-0.49	0.51	-0.08	0.15	0.36	0.30	-0.10	-0.25	0.47	-0.18	0.33	0.27	-0.27	0.33	0.49	0.52	0.49	-0.92*	0.51	-0.35	-0.65*	0.24	-0.62*	0.36	0.02	
Others	-0.10	0.85*	0.29	0.40	-0.35	-0.61*	0.12	0.19	-0.03	0.09	-0.24	-0.28	-0.07	0.14	-0.13	0.08	0.09	0.02	-0.19	0.03	-0.08	0.02	-0.33	-0.25	-0.35	-0.08	-0.05	-0.43	-0.02	-0.35	

JMP statistical software was used to calculate Pearson's correlation coefficient (*r*). C57BL/6N mice were fed with a high-fat diet (HFD), or the HFD supplemented with 0.32% EGCG (HFD + EGCG) for 8 weeks. Values are expressed six mice in each group; **p*<0.05.