

S2 Table. Significantly altered metabolites ($p < 0.05$, compared to controls) identified in fecal samples from Ace-K-treated male mice.

Metabolites	Fold	p value	m/z	Retention time	Pathways or Functions
Pyruvic acid	2.31	0.0065	300.1000	9.22	Fermentation
Cholic acid	1.92	0.044	185.2000	34.96	Bile acids
α -Glyceryl stearate	1.87	0.0064	83.2000	30.85	Glycerolipids
1,3-Dipalmitin	1.85	0.017	240.3000	29.08	Glycerolipids
Glutamic acid	1.73	0.0097	345.2000	17.54	Amino acids
Linoleic acid	1.33	0.048	263.3000	25.28	Fatty acids
Phosphoric acid	-1.32	0.047	119.1000	12.13	-
Cholesterol	-1.47	0.034	142.2000	34.01	Sterol
Lysine	-1.60	0.021	419.3000	21.89	Amino acids
Glycolic acid	-1.61	0.039	178.1000	9.05	-
Campesterol	-1.73	0.044	260.3000	34.82	Sterol
Isoleucine	-1.90	0.035	231.2000	12.42	Amino acids
Ornithine	-2.23	0.036	142.2000	20.49	Amino acids
Deoxycholic acid	-5.33	0.0084	319.2000	35.04	Bile acids