Supplementary Table 2. The identity and effect size of changes (AOM *vs.* saline-treated mice) based on log transformed data are shown for biochemicals whose changes are significant in feces and colorectum, plasma and colorectum and all 3 matrices, 7 weeks after the last injection.

	Effect Size	
Biochemical Name	Feces	Colorectum
N-acetylalanine	1.5	3.2
3-(4-hydroxyphenyl)lactate	1.6	2.0
glycine	2.2	3.8
sarcosine (N-Methylglycine)	2.4	1.9
alpha-hydroxyisovalerate	3.6	1.8
N-acetylmethionine	4.8	3.9
tryptophan	4.9	2.2
maltose	3.0	2.0
gamma-glutamylleucine	3.0	2.2
gamma-glutamylmethionine	3.9	2.1
deoxycarnitine	-3.1	-4.3
docosapentaenoate (n6 DPA; 22:5n6)	-1.9	-2.4
pentadecanoate (15:0)	-1.4	-3.3
inosine	-1.9	-2.3
isoleucylisoleucine	-7.4	-3.2
valylisoleucine	-5.9	-2.1
alanylisoleucine	-5.8	-1.9
isoleucylleucine	-4.5	-2.1
leucylglycine	-4.1	-1.7
isoleucylalanine	-3.9	-2.3
valylleucine	-3.4	-1.9
isoleucylphenylalanine	-3.1	-2.3
tyrosylleucine	-2.8	-2.0
serylleucine	-2.7	-2.3
alanylleucine	-2.6	-2.7
threonylleucine	-2.6	-2.0
alanylphenylalanine	-2.6	-3.0
phenylalanylleucine	-2.5	-2.0
serylphenyalanine	-2.4	-3.3
methionylisoleucine	-2.2	-2.3
methionylleucine	-2.0	-2.6
threonylphenylalanine	-1.9	-3.0
phenylalanylserine	-1.8	-2.0

	Effect Size	
Biochemical Name	Plasma	Colorectum
N-acetylmethionine	1.7	3.9
dimethylglycine	3.1	4.4
2-hydroxyglutarate	1.8	3.7
gamma-glutamylmethionine	1.9	2.1
1,5-anhydroglucitol (1,5-AG)	-3.1	-2.5
nicotinamide	-2.4	-2.7
alpha-tocopherol	-2.2	-1.8
arachidonate (20:4n6)	-4.2	-2.7
glycerophosphorylcholine (GPC)	-3.0	-4.6
glycerol 3-phosphate (G3P)	-2.9	-3.6
2-arachidonoylglycerophosphocholine	-2.9	-4.3
propionylcarnitine	-2.0	-3.0
inosine	-7.8	-2.3
adenosine 5'-monophosphate (AMP)	-1.8	-2.6

	Effect Size		
Biochemical Name	Feces	Plasma	Colorectum
gamma-glutamylmethionine	3.9	1.9	2.1
N-acetylmethionine	4.8	1.7	3.9
inosine	-1.9	-7.8	-2.3