## **Supplementary Figures**

**Figure S1.** Typical 600 MHz high-resolution <sup>1</sup>H nuclear magnetic resonance (NMR) urinary spectra from control BALB/c mouse

**Figure S2.** Matching the gut microbial composition and urine metabolite profile by accounting one time-point lag in the latter samples



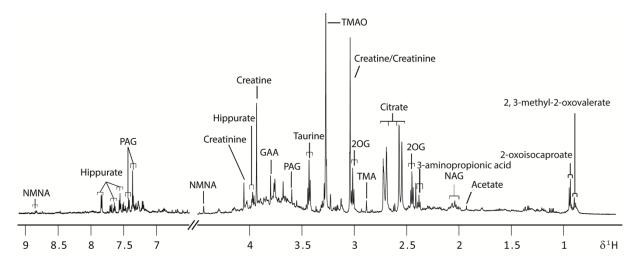


Figure	<b>S2</b>
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Urine	Stool
Day 1	Day 1
Day 2	Day 2
Day 3	Day 3
Day 8 🧹	Day 8
Day 15 🧹	Day 15

## Supplementary table

**Table S1.** Urinary metabolites found to be altered between time points based on O-PLS-DA models and permutation tests.

Metabolites	Chemical shifts, ppm (multiplicity)	Time points									
		D8 vs D1 (R <sup>2</sup> X= 33.8%; Q <sup>2</sup> Y= 87.8% )	D8 vs D15 (R <sup>2</sup> X= 31.3%; Q <sup>2</sup> Y= 79.0% )	D1 vs D2 (R <sup>2</sup> X= 36.0%; Q <sup>2</sup> Y= 62.6% )	D1 vs D3 (R <sup>2</sup> X= 31.8%; Q <sup>2</sup> Y= 69.7% )	D1 vs D15 (R <sup>2</sup> X= 36.0%; Q <sup>2</sup> Y= 71.0% )	D2 vs D3 (R <sup>2</sup> X= 18.1%; Q <sup>2</sup> Y= 1.4% )	D2 vs D8 (R <sup>2</sup> X= 28.7%; Q <sup>2</sup> Y= 88.5% )	D2 vs D15 (R <sup>2</sup> X= 21.3%; Q <sup>2</sup> Y= 57.4% )	D3 vs D8 (R <sup>2</sup> X= 27.6%; Q <sup>2</sup> Y= 81.5% )	D3 vs D15 (R <sup>2</sup> X= 22.7%; Q <sup>2</sup> Y= 61.8% )
2,3-dihydroxybutyrate	1.24 (d)	+	+					-	-	-	
2-oxoglutarate	2.45 (t), 3.01 (t)	-	-			+	+	+		+	
Acetate	1.92 (s)	-	-					+		+	
$\alpha$ -hydroxy N-valerate	0.92 (t), 1.64 (m)	+	+							-	
Arginine	1.63(m), 1.89(m)	+	+					-		-	
Citrate	2.55 (d), 2.70 (d)	-	-			+		+	+	+	
Creatine	3.04 (s), 3.93 (s)			+	+			-	-	-	-
D-3-hydroxybutyrate	1.20 (d)	+	+					-	-	-	
Dimethylglycine	2.92 (s)	-		+	+						
Formate	8.45 (s)	-						+	+	+	
Fumarate	6.53 (s)	-						-		-	
Guanidinoacetate	3.80 (s)	-	-	+							
Hippurate	3.98 (d), 7.54 (t), 7.64 (t), 7.84 (d)	-	-		-			+		+	
N-acetyls of glycoproteins	2.01 (s)	+	+					-		-	
N-methyl nicotinate	4.44 (s), 8.84 (t), 9.12 (s)	-	-					+		+	
Phenyalacetylglycine	7.43(m), 7.37(m), 3.75(d), 3.68(s)	+		+				-	-	-	
Pyruvate	2.41 (s)	-	-		+	+		+		+	
Sarcosine	3.60 (s)	-	-					+		+	
Succinate	2.35 (s)	+	+					-		-	
Taurine	3.23 (t), 3.43 (t)	+	+			-		-	-	-	
Trimethylamine	2.89 (s)	+			-	-					
Trimethylamine N -oxide	3.27 (s)	+		-	-	-		-	-	-	-
Tryptophan	7.21 (t), 7.29 (t). 7.72 (d)	+				-					

Footnote: All metabolites were significant at the level of p < 0.01 calculated using permutation test between each pair of time points; s, singlet; d, doublet; t, triplet; m, multiplets; +, relatively higher in the first group and vice versa. Key: D1, day 1; D2, day 2; D3, day 3; D8, day 8; D15, day 15.