

Supplementary Material

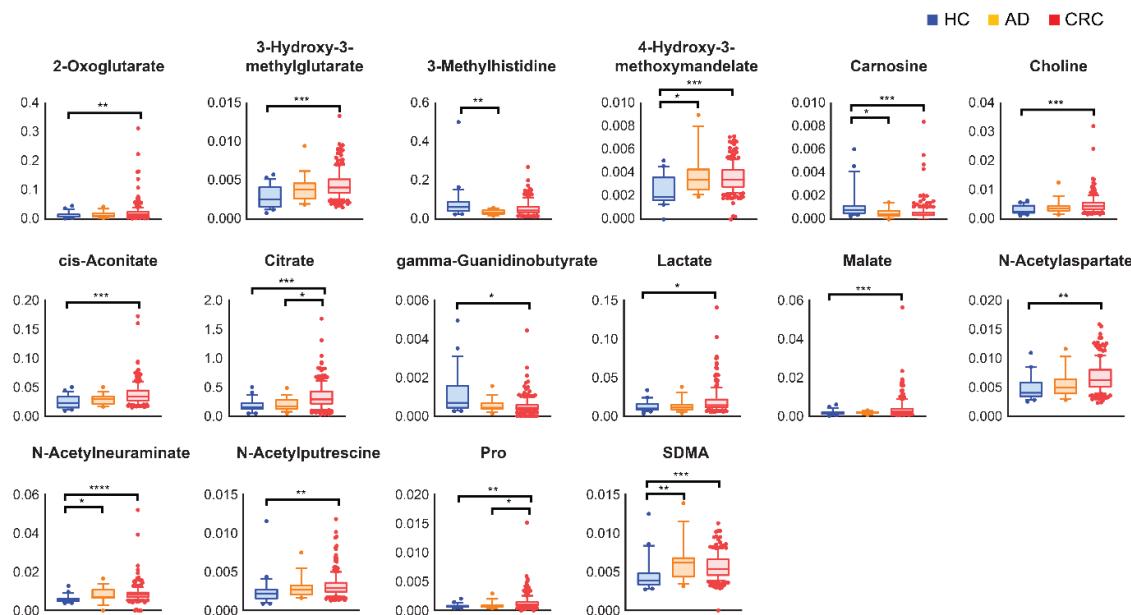


Figure S1. Metabolites showing consistent changes between data 1 and data 2. Box plots of data 1 of each metabolite. See the legend of Figure 2 for details.

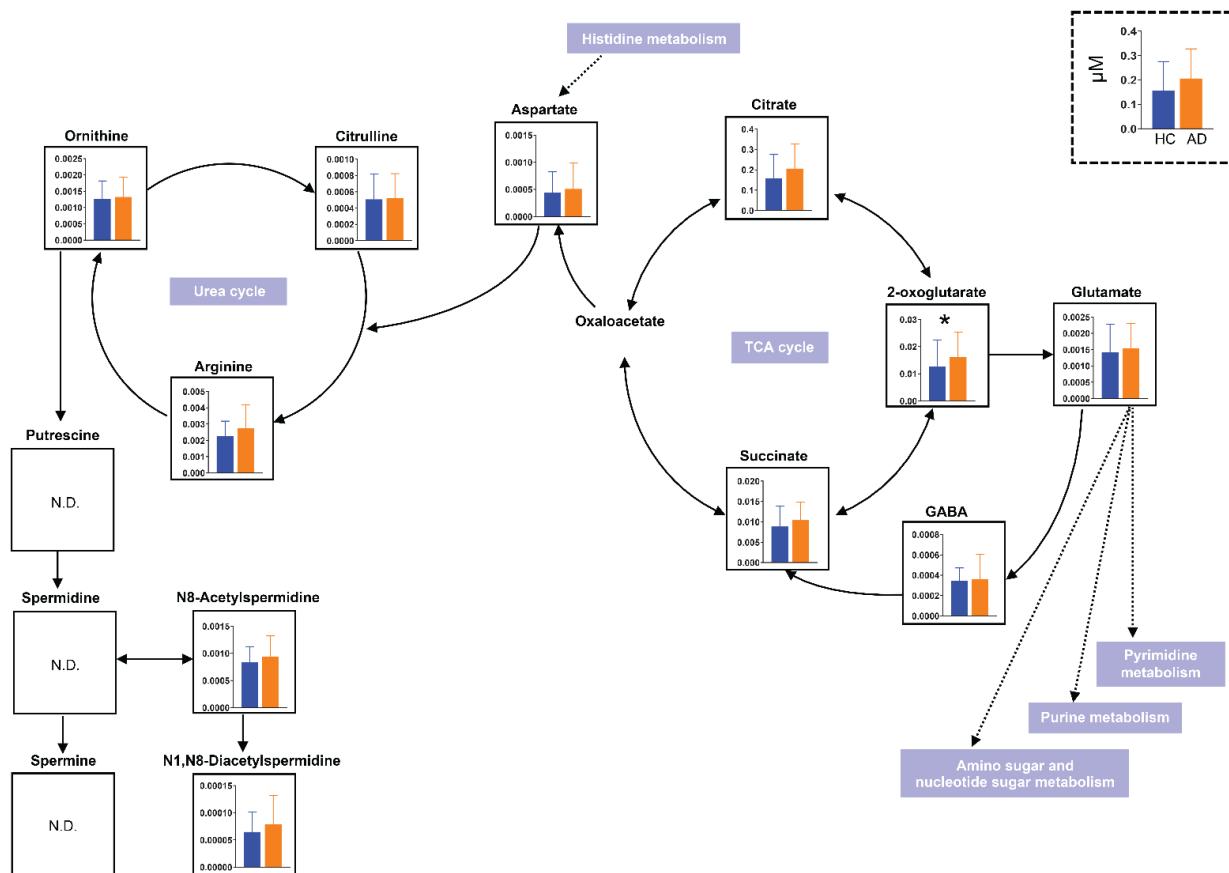


Figure S2. Comparison of metabolite concentrations between HC vs. AD. See the legend of Figure 6 for details.

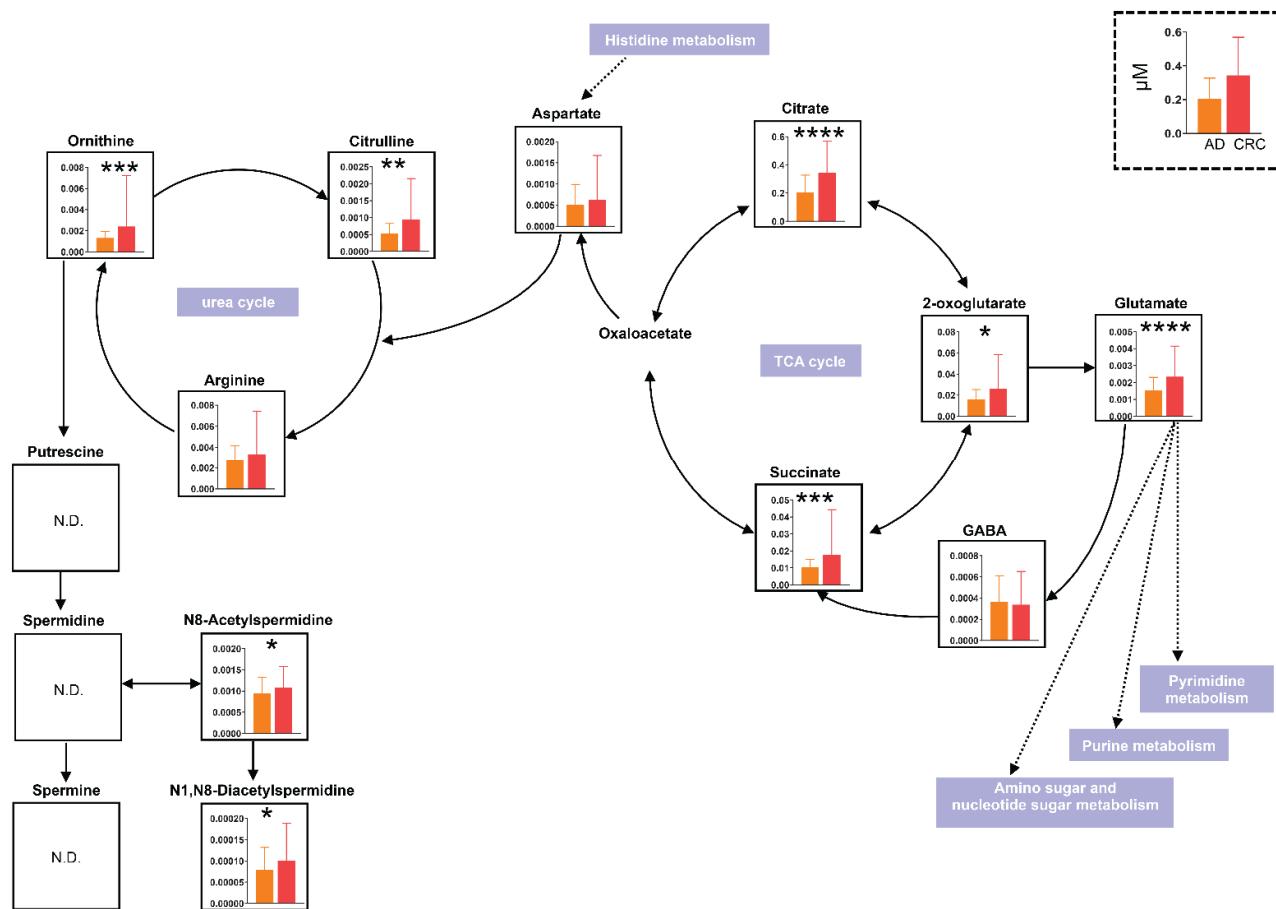


Figure S3. Comparison of metabolite concentrations between HC vs. AD + CRC. See the legend of Figure 6 for details.

Table S1. AUC value of N⁸-acetylspermidine.

N ⁸ -Acetylspermidine	AUC	95% CI	P
HC vs. AD	0.581	0.443	0.719
AD vs. CRC	0.609	0.510	0.707
HC vs. AD + CRC	0.682	0.600	0.763

AUC: area under the curve, CI: confidence interval, HC: healthy controls, AD: adenoma, CRC: colorectal cancer.

Table S2. AUC value of N¹,N⁸-diacetylspermidine.

N ¹ ,N ⁸ -Diacytyspermidine	AUC	95% CI	P
HC vs. AD	0.626	0.492	0.760
AD vs. CRC	0.623	0.532	0.715
HC vs. AD + CRC	0.706	0.626	<0.0001

AUC: area under the curve, CI: confidence interval, HC: healthy controls, AD: adenoma, CRC: colorectal cancer.

Table S3. AUC value of 2-oxoglutarate.

2-Oxoglutarate	AUC	95% CI	P
HC vs. AD	0.666	0.536	0.796
AD vs. CRC	0.631	0.534	0.729
HC vs. AD + CRC	0.748	0.600	<0.0001

AUC: area under the curve, CI: confidence interval, HC: healthy controls, AD: adenoma, CRC: colorectal cancer.

Table S4. AUC value of citrate.

Citrate	AUC	95% CI	P
HC vs. AD	0.627	0.496	0.757
AD vs. CRC	0.710	0.622	0.798
HC vs. AD + CRC	0.771	0.692	<0.0001

AUC: area under the curve, CI: confidence interval, HC: healthy controls, AD: adenoma, CRC: colorectal cancer.