

Table S1. Results of multiple logistic regression analysis with plasma AA concentrations as the independent variable showed significant correlations with higher or lower BAT-d in men and women

	Men			Women		
	<i>P</i> -value	B	Exp(B)	<i>P</i> -value	B	Exp(B)
Glycine/AAs	0.043	137.82	7.17×10 ⁵⁹	0.657	-13.10	2.05×10 ⁻⁶
Alanine/AAs	0.90	-5.20	0.0055	0.469	-20.12	1.83×10 ⁻⁹
Valine/AAs	0.70	-21.15	6.54×10 ⁻¹⁰	0.834	-6.61	1.34×10 ⁻³
Leucine/AAs	0.70	-34.46	1.08×10 ⁻¹⁵	0.481	-55.06	1.22×10 ⁻²⁴
Isoleucine/AAs	0.53	80.32	7.61×10 ³⁴	0.311	104.55	3.93×10 ⁻⁴⁶
Cysteine/AAs	0.31	-	-	0.594	-	3.15×10 ⁻
		1372.49			496.21	²¹⁶
Methionine/AAs	0.57	-213.02	3.08×10 ⁻⁹³	0.290	281.54	1.87×10 ¹²²
Serine/AAs	0.037	169.38	3.63×10 ⁷³	0.251	63.56	4.00×10 ²⁷
Homoserine + Threonine/AAs	0.14	331.32	7.80×10 ¹⁴³	0.236	-	6.38×10 ⁻⁵⁶
					127.09	
Aspartate/AAs	0.31	539.46	1.93×10 ²³⁴	0.681	117.32	8.98×10 ⁵⁰
Glutamate/AAs	0.30	91.11	3.72×10 ³⁹	0.158	-	1.30×10 ⁻⁴⁶
					105.66	
Asparagine/AAs	0.36	-223.39	9.58×10 ⁻⁹⁸	0.186	210.41	2.40×10 ⁹¹
Glutamine/AAs	0.97	1.37	3.94	0.572	-16.26	8.67×10 ⁻⁸
Arginine/AAs	0.45	56.02	2.13×10 ²⁴	0.792	-17.68	2.10×10 ⁻⁸
Lysine/AAs	0.76	-28.35	4.89×10 ⁻¹³	0.103	-	6.01×10 ⁻⁴⁹
					111.03	
Histidine/AAs	0.37	88.03	1.70×10 ³⁸	0.872	-8.87	1.40×10 ⁻⁴
Phenylalanine/AAs	0.036	307.70	4.29×10 ¹³³	0.093	-	2.82×10 ⁻⁶²
					141.72	
Tyrosine/AAs	0.53	-78.95	5.13×10 ⁻³⁵	0.725	-25.97	5.25×10 ⁻¹²
Tryptophan/AAs	0.36	122.45	1.51×10 ⁵³	0.108	158.29	5.54×10 ⁶⁸