

## Supplementary Data

SUPPLEMENTARY TABLE S1. UNADJUSTED COMPARISON OF PLASMA METABOLITES IN OBESE AND NONOBESE HIV-POSITIVE SUBJECTS

Variables	Obese (n=35)	Nonobese (n=35)	p
<b>Amino acids (<math>\mu</math>M)</b>			
Alanine	277.8 (255.0–319.4)	257.9 (218.0–305.1)	<b>.05</b>
Arginine	29.4 (22.0–32.6)	29.2 (24.4–35.1)	.39
Asparagine	32.2 (28.4–35.1)	35.0 (32.0–38.7)	<b>.008</b>
Aspartic acid	4.61 (3.31–5.93)	3.22 (2.61–4.67)	<b>.04</b>
Citrulline	29.7 (24.7–34.8)	31.8 (25.9–38.1)	.44
Glutamic acid	43.0 (35.0–65.7)	32.6 (25.3–41.9)	<b>.004</b>
Glutamine	343.5 (299.0–373.4)	397.2 (300.0–435.0)	.08
Glycine	219.7 (177.2–263.0)	224.0 (186.5–262.6)	.53
Histidine	69.7 (61.7–73.2)	69.9 (61.1–77.9)	.71
Isoleucine	55.7 (50.8–64.0)	51.7 (46.6–63.3)	.26
Leucine	105.3 (87.8–115.6)	95.2 (84.0–113.8)	.42
Lysine	277.8 (254.8–320.7)	204.7 (150.4–237.5)	.98
Ornithine	39.9 (33.8–48.1)	44.4 (34.6–51.9)	.36
Phenylalanine	41.7 (38.0–46.7)	40.5 (34.5–46.0)	.32
Proline	137.5 (110.5–156.1)	128.6 (109.8–169.6)	.90
Serine	70.2 (58.3–84.4)	72.1 (61.3–85.2)	.63
Threonine	94.4 (80.8–118.5)	100.9 (87.4–131.6)	.17
Tryptophan	32.1 (26.5–35.3)	28.7 (24.8–37.8)	.35
Tyrosine	49.6 (43.0–55.0)	42.9 (34.0–52.6)	<b>.03</b>
Valine	185.6 (160.7–210.0)	171.7 (142.1–204.6)	.10
<b>Acylcarnitines (<math>\mu</math>M)</b>			
C2	6.14 (5.11–8.64)	6.31 (4.01–8.65)	.34
C2:C3+C5 ratio	15.0 (10.6–26.4)	15.1 (10.5–26.7)	1.0
C3	0.32 (0.24–0.40)	0.29 (0.22–0.33)	.45
C4 butyryl	0.075 (0.066–0.10)	0.058 (0.047–0.083)	<b>.05</b>
C4 isobutyryl	0.052 (0.036–0.083)	0.064 (0.034–0.083)	.88
C4-DC succinyl	0.0079 (0.0068–0.011)	0.0078 (0.0057–0.011)	.54
C4-OH butyryl	0.0058 (0.0050–0.015)	0.0050 (0.0050–0.016)	.48
C5 2-methylbutyryl	0.034 (0.025–0.042)	0.027 (0.023–0.035)	.12
C5 isovaleryl	0.069 (0.050–0.087)	0.051 (0.040–0.077)	.10
C5:1	0.0032 (0.0041–0.0066)	0.0052 (0.0038–0.0075)	.20
C5-OH	0.0075 (0.0054–0.0098)	0.0090 (0.0064–0.012)	<b>.05</b>
C6	0.032 (0.027–0.40)	0.034 (0.022–0.045)	.49
C8	0.096 (0.062–0.13)	0.092 (0.066–0.14)	.74
C8-OH	0.015 (0.012–0.023)	0.018 (0.011–0.023)	.50
C10	0.081 (0.062–0.12)	0.092 (0.056–0.14)	.65
C10-OH	0.048 (0.036–0.064)	0.055 (0.038–0.079)	.23
C12	0.042 (0.030–0.053)	0.045 (0.030–0.072)	.43
C14	0.018 (0.015–0.024)	0.019 (0.015–0.027)	.52
C14:1	0.054 (0.045–0.079)	0.052 (0.036–0.095)	.65
C14:2	0.026 (0.020–0.038)	0.027 (0.016–0.043)	.95
C16	0.074 (0.061–0.093)	0.079 (0.058–0.088)	.77
C16:2	0.0083 (0.0056–0.010)	0.0064 (0.0048–0.013)	.69
C18	0.032 (0.028–0.035)	0.034 (0.028–0.044)	.23
C18:1	0.11 (0.097–0.13)	0.13 (0.088–0.14)	.57
C18:2	0.087 (0.071–0.11)	0.10 (0.075–0.12)	.29
<b>Organic acids (<math>\mu</math>M)</b>			
2-Hydroxybutyrate	36.8 (28.2–48.2)	32.1 (23.9–47.3)	.29
3-Hydroxybutyrate	54.4 (27.2–120.1)	40.5 (30.5–132.4)	.97
$\alpha$ -Ketoglutarate	4.54 (4.07–5.35)	4.60 (3.66–5.94)	.77
Lactate	987.5 (826.1–1230.1)	976.7 (734.2–1128.3)	.19
Pyruvate	108.3 (92.7–137.5)	89.4 (77.1–124.6)	<b>.04</b>
Malate	2.78 (2.43–3.41)	2.94 (2.51–3.65)	.68
Citrate	79.4 (69.4–93.5)	76.2 (65.6–95.3)	.51

Metabolites are shown as median values with IQR. *p*-Values <0.05 are shown in **bold**. HIV, human immunodeficiency virus; IQR, interquartile range.