

SUPPLEMENTARY TABLE S2. MULTIVARIABLE LINEAR REGRESSION MODEL FOR THE RELATIONSHIP OF INSULIN RESISTANCE WITH PLASMA METABOLITES IN HIV-POSITIVE SUBJECTS

<i>Outcome variable</i>	<i>Regression coefficient (95% CI)</i>	<i>p</i>
Amino acids		
Alanine	0.0008 (−0.07 to 0.07)	.98
Arginine	0.01 (−0.06 to 0.09)	.75
Asparagine	−0.02 (−0.09 to 0.05)	.59
Aspartic acid	0.005 (−0.07 to 0.08)	.89
Citrulline	−0.04 (−0.11 to 0.03)	.27
Glutamic acid	0.13 (0.05 to 0.21)	.001
Glutamine	−0.01 (−0.09 to 0.06)	.69
Glycine	−0.07 (−0.17 to 0.02)	.12
Histidine	−0.02 (−0.10 to 0.07)	.70
Isoleucine	0.07 (−0.02 to 0.16)	.13
Leucine	0.04 (−0.05 to 0.14)	.36
Lysine	0.01 (−0.03 to 0.06)	.49
Ornithine	0.06 (−0.02 to 0.14)	.12
Phenylalanine	0.04 (−0.02 to 0.11)	.19
Proline	0.03 (−0.02 to 0.08)	.28
Serine	0.04 (−0.05 to 0.13)	.37
Threonine	0.02 (−0.06 to 0.09)	.60
Tryptophan	0.05 (−0.03 to 0.14)	.20
Tyrosine	0.12 (0.06 to 0.18)	<.001
Valine	0.05 (−0.04 to 0.15)	.29
Acylcarnitines^a		
C2	−0.06 (−0.12 to −0.006)	.03
C2:C3+C5 ratio	−0.11 (−0.19 to −0.03)	.006
C3	0.12 (0.03 to 0.21)	.01
C4 butyryl	−0.007 (−0.04 to 0.03)	.70
C4 isobutyryl	−0.003 (−0.08 to 0.07)	.94
C4-DC succinyl	0.02 (−0.05 to 0.08)	.60
C4-OH butyryl	−0.03 (−0.06 to 0.003)	.07
C5 2-methylbutyryl	0.009 (−0.07 to 0.09)	.83
C5 isovaleryl	0.08 (−0.02 to 0.18)	.12
C5:1	−0.01 (−0.09 to 0.07)	.82
C5-OH	−0.13 (−0.22 to −0.04)	.006
C6	−0.06 (−0.14 to 0.02)	.12
C8	−0.04 (−0.09 to 0.005)	.08
C8-OH	−0.07 (−0.12 to −0.006)	.03
C10	−0.05 (−0.10 to −0.004)	.04
C10-OH	−0.07 (−0.12 to −0.03)	.003
C12	−0.05 (−0.10 to −0.004)	.03
C14	−0.06 (−0.14 to 0.009)	.08
C14:1	−0.06 (−0.12 to −0.008)	.03
C14:2	−0.05 (−0.11 to 0.004)	.07
C16	−0.08 (−0.14 to −0.009)	.03
C16:2	−0.003 (−0.06 to 0.05)	.91
C18	−0.10 (−0.18 to −0.02)	.01
C18:1	−0.11 (−0.17 to −0.04)	.002
C18:2	−0.06 (−0.14 to 0.02)	.16
Organic acids		
2-Hydroxybutyrate	−0.02 (−0.08 to 0.03)	.40
3-Hydroxybutyrate	−0.03 (−0.07 to 0.02)	.20
α-Ketoglutarate	−0.01 (−0.03 to 0.06)	.56
Lactate	0.01 (−0.06 to 0.08)	.77
Pyruvate	0.04 (−0.03 to 0.12)	.24
Malate	0.0001 (−0.06 to 0.06)	1.0
Citrate	−0.02 (−0.07 to 0.03)	.50

Multivariable model adjusted for age, sex, CD4⁺ count at enrollment (square root transformed), duration of antiretroviral treatment, smoking status, and fat mass index. The dependent variable (HOMA2) was log-transformed, so regression coefficients represent the change in log(HOMA2) from the 25th to the 75th percentile of the metabolite. *p*-Values <.05 are shown in *bold*.

^aC5 valeryl was excluded from the multivariable analyses as 29 subjects (41%) had a level below the 0.0025 μM limit of detection.

CI, confidence interval; HOMA, Homeostasis Model Assessment.