

Supplementary Table 1. Postprandial response of metabolites across the liver.

		Total postprandial AUC	Maximum delta change from fasting
<i>Lysine</i>	<i>Day 0</i>	4.47 ± 0.27*	-6.02 ± 5.53
	<i>Day 60</i>	6.43 ± 0.96*	2.90 ± 5.68
<i>Threonine</i>	<i>Day 0</i>	-1.82 ± 1.10	-3.31 ± 6.47
	<i>Day 60</i>	3.02 ± 1.40	-4.77 ± 5.26
<i>Citrate</i>	<i>Day 0</i>	8.59 ± 4.45	-26.02 ± 23.39
	<i>Day 60</i>	4.71 ± 2.31	7.37 ± 19.32
<i>Isoleucine</i>	<i>Day 0</i>	18.26 ± 4.23*	31.13 ± 12.18
	<i>Day 60</i>	2.36 ± 3.70#	-28.37 ± 26.22
<i>Proline</i>	<i>Day 0</i>	1.85 ± 1.04	-19.05 ± 10.17
	<i>Day 60</i>	3.42 ± 1.03*\$	7.86 ± 3.56
<i>Acetate</i>	<i>Day 0</i>	-8.80 ± 2.77	-10.32 ± 14.96
	<i>Day 60</i>	1.44 ± 6.98	1.68 ± 34.98
<i>Tryptophan</i>	<i>Day 0</i>	-6.33 ± 1.95*	11.46 ± 15.22
	<i>Day 60</i>	-5.22 ± 3.78	-4.42 ± 18.76
<i>Creatine</i>	<i>Day 0</i>	0.03 ± 0.78	2.70 ± 6.23
	<i>Day 60</i>	-3.21 ± 1.43	-0.55 ± 11.17
<i>Betaine</i>	<i>Day 0</i>	13.15 ± 3.11*	3.48 ± 11.04
	<i>Day 60</i>	14.26 ± 1.15*	-1.23 ± 7.60
<i>Phosphocholine</i>	<i>Day 0</i>	-1.63 ± 0.89	3.52 ± 9.56
	<i>Day 60</i>	-1.91 ± 0.91	-14.12 ± 9.29
<i>Alanine</i>	<i>Day 0</i>	24.04 ± 2.66*	-36.96 ± 14.06
	<i>Day 60</i>	26.21 ± 2.74*	2.45 ± 10.29
<i>Asparagine</i>	<i>Day 0</i>	4.53 ± 1.98	-17.34 ± 11.51
	<i>Day 60</i>	4.15 ± 1.32*	13.02 ± 9.41
<i>Methionine</i>	<i>Day 0</i>	0.27 ± 2.80	-23.02 ± 8.09
	<i>Day 60</i>	4.63 ± 1.96	12.49 ± 6.21#
<i>Lipids</i>	<i>Day 0</i>	-0.71 ± 0.46	-1.52 ± 3.43
	<i>Day 60</i>	-0.24 ± 1.91	0.66 ± 4.50
<i>Glycero-phosphocholine</i>	<i>Day 0</i>	3.31 ± 0.26	3.18 ± 4.85
	<i>Day 60</i>	-0.26 ± 1.32	-9.97 ± 5.30
<i>Glutamine</i>	<i>Day 0</i>	13.67 ± 2.77*	-0.62 ± 13.78
	<i>Day 60</i>	16.99 ± 1.30*	15.73 ± 12.91
<i>Valine</i>	<i>Day 0</i>	-13.61 ± 3.60*	-8.58 ± 17.11
	<i>Day 60</i>	4.90 ± 2.42#	21.34 ± 14.22
<i>Leucine</i>	<i>Day 0</i>	-4.06 ± 1.47	2.41 ± 9.12
	<i>Day 60</i>	2.92 ± 1.27#	7.13 ± 8.87
<i>Tyrosine</i>	<i>Day 0</i>	9.88 ± 3.65*	-10.76 ± 10.24
	<i>Day 60</i>	19.64 ± 3.16*,#	12.78 ± 7.76
<i>Phenylalanine</i>	<i>Day 0</i>	12.22 ± 2.30*	2.86 ± 11.29
	<i>Day 60</i>	12.54 ± 3.06*\$	50.43 ± 11.23
<i>Glucose</i>	<i>Day 0</i>	-4.24 ± 0.74*	3.92 ± 3.50
	<i>Day 60</i>	-5.17 ± 2.14	1.01 ± 5.14

*, significant (p<0.05) exchange across the liver. For the AUC, negative values mean release and positive values means uptake of a given metabolite. For the delta change, negative values mean decrease, while positive values mean increase in the exchange of a given metabolite following the meal. \$, significant different between the fasting and the integrated postprandial exchange (p<0.05). Comparison against D0: #, p<0.05.