

Supplementary Table S3: P-values for comparison of metabolite levels by two-way ANOVA. For comparisons between groups Tukey's post hoc tests were used, the results are presented in the figures in the main text.

Panel	Matrix	Metabolite	Diet effect	Access effect	Diet effect x access effect
A	Plasma	Pyridoxal	0.706	<0.001	0.322
	Plasma	Isopyridoxal	0.423	0.001	0.423
	Plasma	Arachidonoyl serotonin	<0.001	0.712	0.024
	Plasma	3-Hydroxykynurenine	<0.001	0.844	0.017
	Plasma	Picolinic acid	0.043	0.004	0.093
	Plasma	2,8-Dihydroxyquinoline-beta-D-glucuronide	0.009	0.159	0.067
	Plasma	N-Methylnicotinamide	0.131	<0.001	0.053
	B	Plasma	Tryptophan	0.000	0.183
Plasma		5-Hydroxyindoleacetic acid	<0.001	<0.001	<0.001
Plasma		Kynurenine	<0.001	<0.001	<0.001
Plasma		Kynurenic acid	<0.001	<0.001	<0.001
Plasma		3-Hydroxykynurenine	0.044	0.140	0.360
Plasma		Xanthurenic acid	<0.001	0.220	0.006
Plasma		Picolinic acid	<0.001	0.007	0.006
Plasma		Quinolinic acid	<0.001	0.070	<0.001
Plasma		Nicotinamide	0.896	0.509	0.219
Hippocampus		Tryptophan	0.123	0.749	0.212
Hippocampus		Kynurenine	<0.001	0.005	0.002
Hippocampus		Xanthurenic acid	0.579	0.543	0.934
C	Hippocampus	Picolinic acid	0.113	0.217	0.476
	Hippocampus	Nicotinamide	0.897	0.030	0.903