

**Supplementary Material 2 - Shown are Metabolite, Slope, its lower and upper confidence intervals (L95, U95), standard error, p-value of the slope (FDR) after correction for multiple testing during day 1 for all participants**

Metabolites	Slope	L95	U95	SE	p_value	FDR
Isoleucine	-0.723081341	-1.038741619	-0.407421063	0.156724962	3.29E-05	0.002236537
Leucine	-0.776050403	-1.144939039	-0.407161768	0.18315278	0.000110638	0.003761705
Glycine	-0.307742491	-0.628394541	0.01290956	0.159203372	0.0595416	0.358411481
Methionine	-0.327236178	-0.673304153	0.018831797	0.171822349	0.063249085	0.358411481
Proline	-0.232089272	-0.454799251	-0.009379293	0.110575247	0.041465606	0.358411481
Valine	-0.308244458	-0.58981715	-0.026671765	0.139800516	0.032615286	0.358411481
alpha-Tocopherol	-0.385656272	-0.762045664	-0.009266879	0.186876897	0.044842537	0.358411481
Lactic acid	0.3944959	-0.016812803	0.805804603	0.204214295	0.059698972	0.358411481
3-Dihydroxybutanoic acid	-0.445563686	-0.867848564	-0.023278808	0.209663953	0.039100329	0.358411481
2-Aminobutyric acid	-0.410190056	-0.817897366	-0.002482746	0.202426207	0.048678679	0.358411481
2-Keto-3-methylpentanoic acid	-0.446030184	-0.8255385	-0.066521867	0.18842544	0.022287085	0.358411481
Tyrosine	-0.321931398	-0.653119846	0.00925705	0.164434681	0.056470796	0.358411481
3-Hydroxybutyric acid	-0.286622021	-0.635061303	0.061817261	0.1729997	0.104521668	0.394859634
Oleic acid	0.311756364	-0.05957825	0.683090977	0.184367206	0.097761632	0.394859634
Hydroxylamine	-0.439928964	-0.971967159	0.09210923	0.264156347	0.102778669	0.394859634
L-5-Oxoproline	-0.312484407	-0.688487783	0.063518969	0.186685241	0.101096809	0.394859634
Oxalic acid	-0.393217719	-0.846445298	0.060009859	0.225026968	0.087385263	0.394859634
Tetradecanoic acid	0.325529616	-0.035896315	0.686955546	0.179447556	0.076338408	0.394859634
Cholesterol	-0.291004307	-0.674237544	0.09222893	0.190274858	0.133167783	0.431209965
Phenylalanine	-0.312272012	-0.718731842	0.094187817	0.201806835	0.128776151	0.431209965
Propanedioic acid	-0.26169309	-0.597630956	0.074244777	0.166792762	0.123660363	0.431209965
Ornithine	-0.323461542	-0.770042861	0.123119778	0.221727108	0.15155794	0.468451813
Aminomalonic acid	-0.256938514	-0.624069062	0.110192034	0.182279892	0.165537009	0.489413766
Serine	-0.301494217	-0.761648919	0.158660484	0.228466276	0.193628451	0.548161931
Glycolic acid	-0.501402575	-1.280534601	0.27772945	0.386838148	0.201530122	0.548161931
Threonine	-0.287183738	-0.767187695	0.19282022	0.238321409	0.234491892	0.613286487
4-Hydroxybutanoic acid	-0.298301089	-0.828744198	0.23214202	0.263364389	0.263358142	0.663272358

Linoleic acid	0.214378119	-0.199205793	0.627962031	0.205343933	0.302063613	0.73358306
Glutamic acid	-0.133266179	-0.413344763	0.146812404	0.139058692	0.343009752	0.744427044
Creatinine	-0.196401741	-0.596144247	0.203340765	0.198471691	0.327675363	0.744427044
Glycerol	0.239770763	-0.252374606	0.731916132	0.244349606	0.331710398	0.744427044
Palmitoleic Acid	0.170925136	-0.193840505	0.535690778	0.181105719	0.350318609	0.744427044
4-Dihydroxybutanoic acid	-0.09745859	-0.311951008	0.117033828	0.106495237	0.364993507	0.752107832
2-(2-Butoxyethoxy)ethoxy	-0.211890597	-0.69777313	0.273991936	0.241240115	0.384425652	0.765496877
3-Indoleacetic acid	0.080237312	-0.107539964	0.268014588	0.0932312	0.394005746	0.765496877
Octanoic acid	-0.195685071	-0.672398686	0.281028544	0.236687758	0.412732995	0.779606769
3-Propanediol	0.208898063	-0.3534189	0.771215025	0.27918972	0.458214417	0.819962641
Dodecanoic acid	0.168891831	-0.2848866	0.622670262	0.225300466	0.457379249	0.819962641
Tryptophan	-0.163427134	-0.624438146	0.297583877	0.228891433	0.478918036	0.835036576
Ribonic acid	0.136507388	-0.267277006	0.540291781	0.200478484	0.4994187	0.849011789
Isopropyl myristate	-0.146330156	-0.604196584	0.311536273	0.227330152	0.523043647	0.867487025
2-Hydroxybutyric acid	0.087786925	-0.211774205	0.387348054	0.148731754	0.557984599	0.903403636
alpha-ketoglutaric acid	0.060036053	-0.277337971	0.397410078	0.167505812	0.721711183	0.954003711
Arachidonic acid	-0.117884688	-0.713622855	0.477853479	0.29578331	0.692109044	0.954003711
Citric acid	0.032526979	-0.255882237	0.320936195	0.143194842	0.821334465	0.954003711
Fumaric acid	-0.06383033	-0.366459532	0.238798871	0.150255048	0.672997255	0.954003711
Myo inositol	0.020929141	-0.217271314	0.259129596	0.11826625	0.860328971	0.954003711
Stearic acid	0.108851238	-0.372966509	0.590668986	0.239221954	0.651281204	0.954003711
Succinic acid	-0.070015159	-0.473777699	0.333747382	0.200467634	0.728523866	0.954003711
4-Dihydroxybutanoic acid	-0.052558498	-0.294588482	0.189471486	0.120167607	0.663930241	0.954003711
Glyceric acid	-0.061624351	-0.357273487	0.234024785	0.146789454	0.676618598	0.954003711
2-Hydroxy-3-methylbutyric acid	-0.028842234	-0.32239539	0.264710922	0.145748802	0.844022353	0.954003711
3-Indolepropionic acid	0.026251334	-0.294548109	0.347050776	0.159276552	0.869826913	0.954003711
3-Phenylpropanoic acid	0.03146249	-0.348691496	0.411616476	0.188746014	0.868359006	0.954003711
4-Hydroxyphenyllactic acid	-0.060995474	-0.441651801	0.319660852	0.188995425	0.74839061	0.954003711
Arachidic acid	0.056360994	-0.507107091	0.619829079	0.279761252	0.841246006	0.954003711
Decanoic acid	0.100682469	-0.427053392	0.62841833	0.262020244	0.702599647	0.954003711

Ethanolamine	0.056601791	-0.432373683	0.545577264	0.242775756	0.816706607	0.954003711
Heptadecanoic acid	0.069257591	-0.398113358	0.536628541	0.232049135	0.766725294	0.954003711
Hydroxyproline	-0.039586362	-0.479267441	0.400094717	0.218301147	0.85691636	0.954003711
Nonanoic acid	-0.105786522	-0.735367865	0.523794821	0.312586408	0.736618193	0.954003711
Pyroglutamic acid	-0.03701172	-0.327223556	0.253200116	0.14408984	0.798453375	0.954003711
Alanine	-0.008124222	-0.369972099	0.353723655	0.179657052	0.964131456	0.984091538
Palmitic acid	0.009303149	-0.479954128	0.498560425	0.242915671	0.969619603	0.984091538
1-Dodecanol	0.015211067	-0.719173719	0.749595854	0.364621196	0.966908493	0.984091538
2-Keto-3-methylbutanoic acid	0.018742483	-0.44179891	0.479283875	0.228658268	0.935036285	0.984091538
Doconexent	-0.015080958	-0.44284585	0.412683933	0.212384773	0.943706254	0.984091538
Malic acid	-0.002010824	-0.345074386	0.341052737	0.170330661	0.990633045	0.990633045