

Tab. S1 Metabolites significantly altered by MIET

NAME	log2 FC	Pvalue	fdr	vip
Adenosine	6.522870947	0.001079	0.006066	1.0372
2-epahpa [dmed-fahfa]	2.517687926	3.54E-08	2.01E-06	2.493334
1-Stearoyl-2-arachidonoyl-sn-glycerol	1.750531426	5.95E-10	1.07E-07	1.256712
5.alpha.-cholest-7-en-3.beta.-ol	1.485526452	1.25E-07	4.99E-06	1.093022
N-Docosanoyl-4-sphingenyl-1-O-phosphorylcholine	1.35181944	1.90E-09	2.04E-07	1.220708
Pi(16:0e/15-hete)	1.308459754	1.70E-05	0.000216	2.747641
Pi(18:0/12-hepe)	1.182961597	4.02E-05	0.000431	2.377535
2-methylamino-1-phenylbutane	1.129606788	7.81E-05	0.000725	1.303618
5-[(8as)-2,5,5,8a-tetramethyl-3-oxo-4a,6,7,8-tetrahydro-4h-naphthalen-1-yl]-3-methylpentanoic acid	1.057040314	0.000368	0.002491	1.328324
Palmitoyl sphingomyelin	0.992912495	5.23E-09	5.12E-07	5.983262
Pi 38:5	0.851490421	0.000925	0.005414	7.46105
N-oleoyl-d-erythro-sphingosylphosphorylcholine	0.838748996	3.40E-07	1.05E-05	1.341487
(+)-.alpha.-tocopherol	0.763910371	1.53E-06	3.11E-05	1.700646
Myristoleic acid	0.619358198	0.009614	0.034862	1.690151
Pi 38:6	0.562982916	0.039286	0.10631	1.857463
Pe(16:1e/14-hdohe)	0.544331403	0.017506	0.055782	1.047454
Pi 36:5	0.47131616	0.03123	0.087791	2.175374
Myristic acid	0.427944887	0.011937	0.041607	1.814929
Pi 38:4	0.391602822	0.016155	0.052407	2.665377
Cholesteryl sulfate	0.335230116	0.012349	0.042491	5.15875
Muconic acid	-0.105139835	0.001655	0.008737	3.249323
Pc(16:1e/9-hode)	-0.217946718	0.013139	0.044359	2.123357
Taurine	-0.224505206	0.000612	0.003767	1.483711
(2-aminoethoxy)[2-[docosa-4.7.10.13.16.19-hexaenoyloxy]-3-[hexadec-1-en-1-yloxy]propoxy]phosphinic acid	-0.240895861	0.027384	0.080106	1.368188
Lpc 18:2	-0.265862043	0.023063	0.069577	6.743288
Choline	-0.293668723	0.000821	0.004883	1.406391
2-oleoyl-1-palmitoyl-sn-glycero-3-phosphocholine	-0.301209455	0.015458	0.050603	5.549201
Pc(16:1e/17-hdohe)	-0.302093415	8.01E-05	0.000731	1.333434
L-palmitoylcarnitine	-0.320222085	0.000232	0.001733	1.207342
Dl-lactate	-0.321180203	0.011838	0.041396	2.270773
1-arachidoyl-2-hydroxy-sn-glycero-3-phosphocholine	-0.322235823	0.013753	0.045731	1.495597
2-hydroxy-6-methylquinoline-3-carbaldehyde	-0.323694762	0.000357	0.002436	1.565278
1-Stearoyl-2-hydroxy-sn-glycero-3-phosphocholine	-0.357567902	7.19E-05	0.000679	4.028015
5-aminovaleric acid betaine	-0.374696712	0.000628	0.003822	2.013861
N-palmitoyl-d-sphingosine	-0.376869419	7.07E-07	1.69E-05	1.60703
1-heptadecanoyl-sn-glycero-3-phosphocholine	-0.38305447	5.37E-06	8.76E-05	1.317919
1-Palmitoyllysophosphatidylcholine	-0.388803607	0.001572	0.008379	1.389118

L-propionylcarnitine	-0.392275197	0.006078	0.024984	1.444633
1-palmitoyl-sn-glycero-3-phosphocholine	-0.399103613	9.46E-12	1.02E-08	13.24092
D-fructose	-0.400770518	4.26E-05	0.000441	2.654637
D-Mannose	-0.42447575	0.00011	0.000961	1.015799
1-Stearoyl-sn-glycerol 3-phosphocholine(LPC(18:0))	-0.435007493	5.81E-05	0.000569	1.024955
Linoleic acid	-0.455453168	0.014222	0.047063	8.619383
Arachidonic Acid (peroxide free)	-0.458428034	0.005019	0.021536	4.432218
L-gulono-1,4-lactone	-0.470536406	0.002635	0.01275	1.854842
Oleamide	-0.471935047	0.000236	0.001739	5.787006
1,2-diarachidonoyl-sn-glycero-3-phosphocholine	-0.473373179	0.000581	0.00362	1.617337
1-oleoyl-l-.alpha.-lysophosphatidic acid	-0.50182629	0.016546	0.053514	1.084493
ketoisocaproic acid	-0.504026779	0.002337	0.011599	1.284427
Palmitic acid	-0.506621882	0.000201	0.001555	9.630645
Fahfa 36:3	-0.51175339	0.007384	0.029003	1.033419
1-hexadecyl-sn-glycero-3-phosphocholine	-0.516294873	4.81E-07	1.30E-05	1.465523
1-palmitoyl-2-docosahexaenoyl-sn-glycero-3-phosphocholine	-0.519360626	0.000292	0.00207	7.18581
D-glutamine	-0.543576115	0.006796	0.027414	1.30348
Tuberostemonine	-0.56045775	2.96E-08	1.87E-06	1.886795
(r)-butyrylcarnitine	-0.573462435	0.002444	0.011966	2.275981
Fahfa 36:2	-0.578153222	0.017487	0.055782	1.085746
1-(9z,12z-octadecadienoyl)-2-hydroxy-sn-glycero-3-phosphoethanolamine	-0.595586856	0.023013	0.069577	1.519633
4-[5-[[4-[5-[acetyl(hydroxy)amino]pentylamino]-4-oxobutanoyl]-hydroxyamino]pentylamino]-4-oxobutanoic acid	-0.618484618	0.013757	0.045731	1.621526
Fenpropidin	-0.627029419	2.83E-05	0.000324	2.508246
Indolelactic acid	-0.667858302	0.000545	0.003451	1.124575
Dihomo-gamma-Linolenic Acid	-0.809670117	2.28E-07	7.82E-06	1.581877
Oleic acid	-0.814700009	2.47E-07	7.82E-06	4.138964
DL-arginine	-0.907359917	5.29E-07	1.39E-05	1.35839
Glycerophosphocholine	-0.943749857	1.03E-07	4.27E-06	4.032614
Ricinoleic acid	-1.000709253	6.01E-07	1.49E-05	2.268103
(4Z,7Z,10Z,13Z,16Z,19Z)-4,7,10,13,16,19-Docosahexaenoic acid	-1.049038805	5.85E-06	9.27E-05	3.21345
Pe(16:1e/14,15-epete)	-1.057617135	6.14E-05	0.00059	2.289564
Heptadecaspinganine	-1.092718705	8.16E-11	2.93E-08	1.793461
Sphingosine	-1.244316865	4.61E-07	1.30E-05	1.786781
C17-sphinganine	-1.262107801	1.03E-09	1.25E-07	1.965432

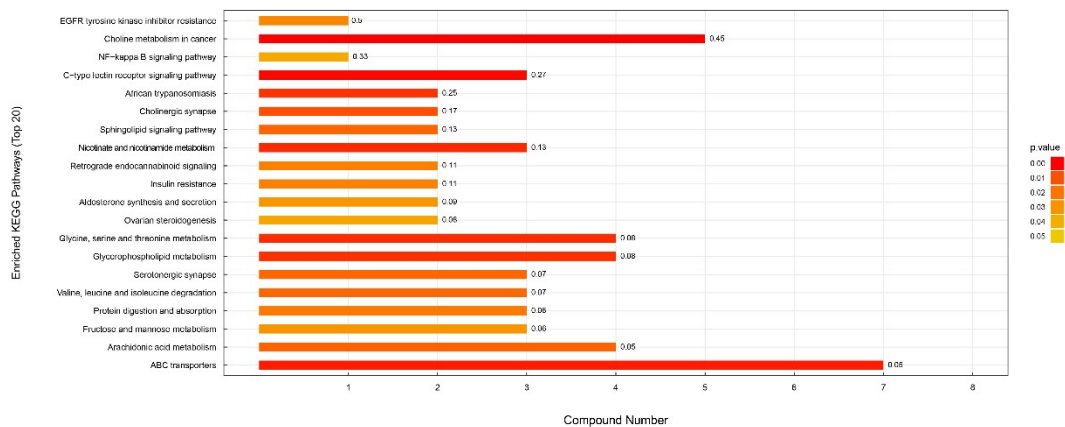


Figure S1 KEGG enrichment (OB vs NOB)