

Supplementary Material

Association of lipid metabolism-related metabolites with overweight/obesity based on the FTO rs1421085

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Table S1: List of forty-two (42) identified metabolites

S. No.	Metabolites	<i>p</i>	<i>p</i> -value (Corrected)	FC (cases vs. control)
1	1,3-Docosenamide	7.55E-07	3.33E-05	1.344
2	2,3-Dihydroxypropyl stearate	1.00E-13	1.00E-13	-2.317
3	2,5-Dimethylbenzaldehyde	2.89E-04	6.90E-03	1.241
4	2,6-Di-tert-butylphenol	1.22E-13	1.12E-11	1.133
5	2,6-Octadien-1-ol	2.27E-03	3.22E-02	1.200
6	2-Methyl-9,10-dihydroanthracene	6.37E-04	1.17E-02	1.204
7	2-Methylpropan-1-ol	1.42E-03	2.21E-02	1.209
8	2-Penten-2,4-diol	4.65E-06	1.84E-04	1.237
9	3,4-Dihydro-2h-benzthiazine	2.18E-04	5.31E-03	1.247
10	3-Buten-2-one	4.42E-07	2.03E-05	-1.352
11	3-Pyridinecarboxamide	3.33E-05	1.10E-03	1.281
12	3-Pyridinol	2.58E-07	1.26E-05	1.320
13	4,6-Dimethoxy-3-methylindolin-2-one	5.56E-04	1.06E-02	1.229
14	Acetamide	1.78E-15	1.85E-13	1.324
15	Benzenepropionic acid	3.64E-03	4.81E-02	1.189
16	Diacetone alcohol	1.85E-11	1.52E-09	1.072
17	Diazirine	2.01E-05	7.09E-04	1.289
18	Eicosanoic acid	3.86E-11	3.06E-09	1.417
19	Ethenone	1.31E-04	3.54E-03	1.256
20	Ethylene, 1,1-diphenyl	1.18E-03	2.03E-02	1.214
21	Geraniol	1.00E-13	1.00E-13	3.517
22	Geranyl tiglate	1.04E-03	1.81E-02	1.216
23	Glycerol	2.81E-08	1.65E-06	-1.261
24	Heptadecane	3.23E-04	7.31E-03	-1.24
25	Heptadecanoic acid	1.58E-07	8.24E-06	1.367
26	Hexadecane, 2,6,10,14-tetramethyl	3.15E-14	3.02E-12	1.179
27	Hexadecanoic acid	3.77E-08	2.17E-06	1.076
28	Lavandulol	1.79E-03	2.75E-02	-1.205
29	Myristic acid	1.57E-13	1.38E-11	1.027
30	n-Eicosane	1.28E-04	3.49E-03	1.247
31	Nicotinic acid	5.56E-04	1.06E-02	1.229
32	n-Pentadecanoic acid	1.00E-13	1.00E-13	1.801
33	Phenylethanolamine	1.82E-03	2.78E-02	-1.206
34	Phosphoric acid	8.51E-05	2.41E-03	1.204
35	Phthalic acid	6.58E-04	1.20E-02	1.216
36	Porphine	1.00E-13	1.00E-13	2.625
37	Stearic acid	5.42E-07	2.44E-05	1.345
38	Sucrose	1.79E-07	8.94E-06	1.366
39	Tetradecane	1.16E-09	8.32E-08	-1.436
40	Thionicotinic acid	3.48E-04	7.31E-03	1.238
41	Triethanolamine	3.51E-04	7.31E-03	1.075
42	Urea	1.96E-06	7.88E-05	1.329

Anthropometric and clinical characteristics were compared between the two groups (cases vs controls) by using Mann Whitney U test. Cases: obese/overweight; Controls: normal weight; FC: fold change; negative (-) sign shows down regulation in cases while positive (+) sign shows up-regulation in cases as compared to controls *p*-value < 0.05 was considered as statistically significant.