

Fig. S1 Grouping.

Fig. S2 Points selection for acupuncture group (**A**) and sham acupuncture group (**B**).

Fig. S3 PCA score plot of in positive (**A**) and negative (**B**) ion mode respectively.

Fig. S4 Protein-metabolite interaction based on Stitch, IntAct, and Reactome databases.

Table S1 Significant differences in amplitude of low-frequency fluctuation (ALFF) between groups.

Table S2 Significant differences in regional homogeneity (ReHo) between groups.

Table S3 Detailed information about the differentially expressed metabolites between groups.

Table S4 Detailed information about the differentially expressed proteins between groups.

Table S5 Migraine related targets collected from databases.

Table S6 Detailed information about the protein-metabolite interaction network.

Table S7 Detailed information about the enriched pathways in acupuncture group.

Table S8 Detailed information about the enriched pathways in sham acupuncture group.

Table S9 Correlation analysis and mediation analysis of clinical, fMRI and omics data

Fig. S1

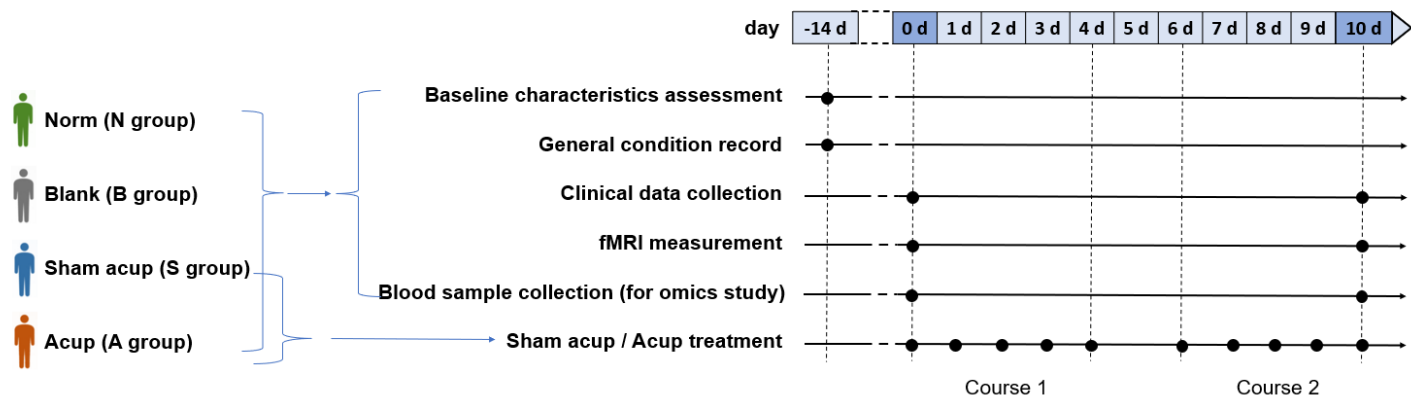
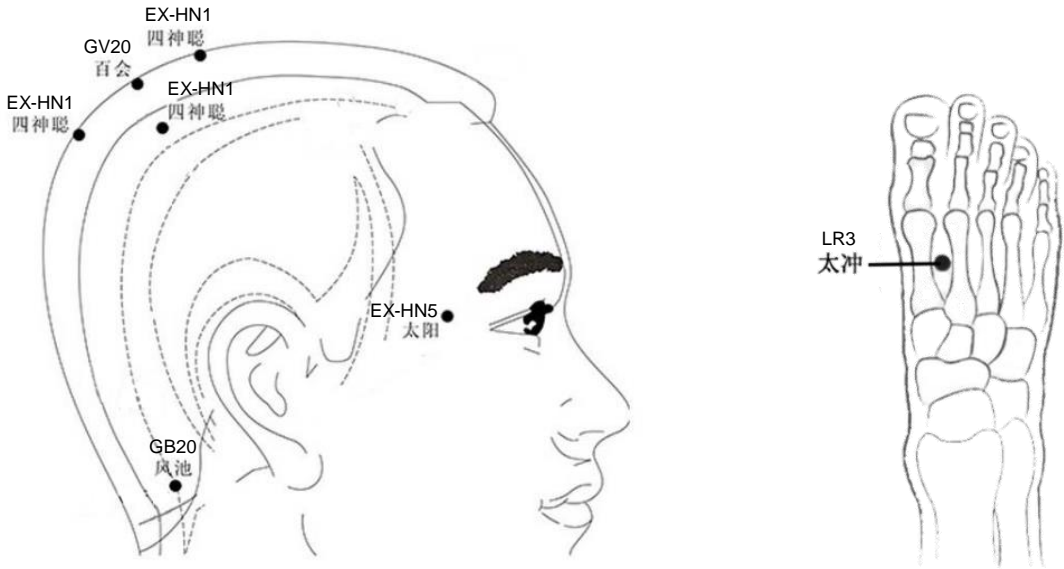


Fig. S2

A



B

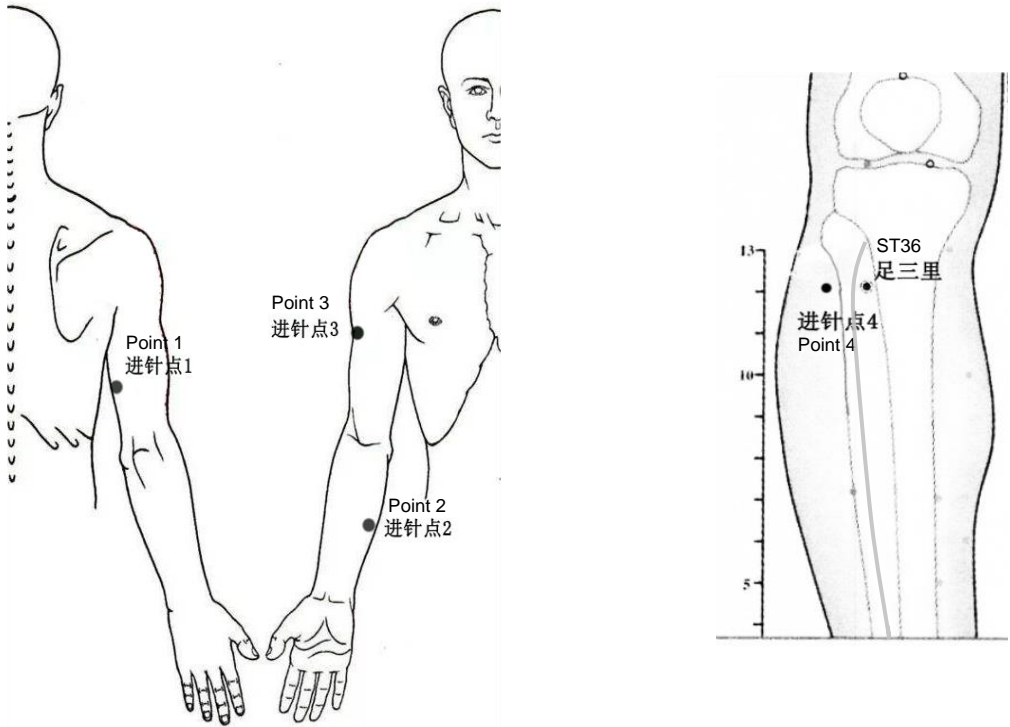


Fig. S3

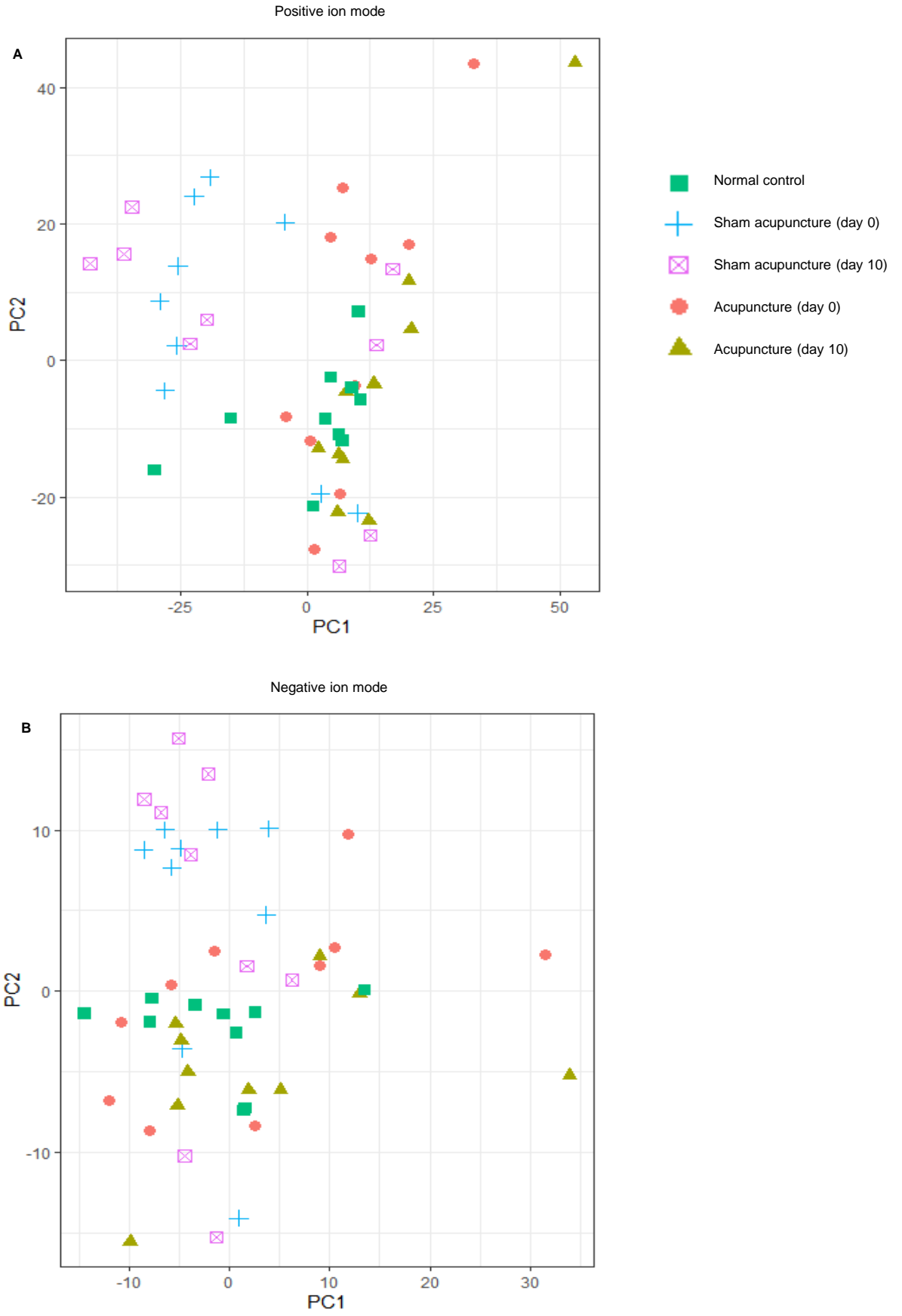
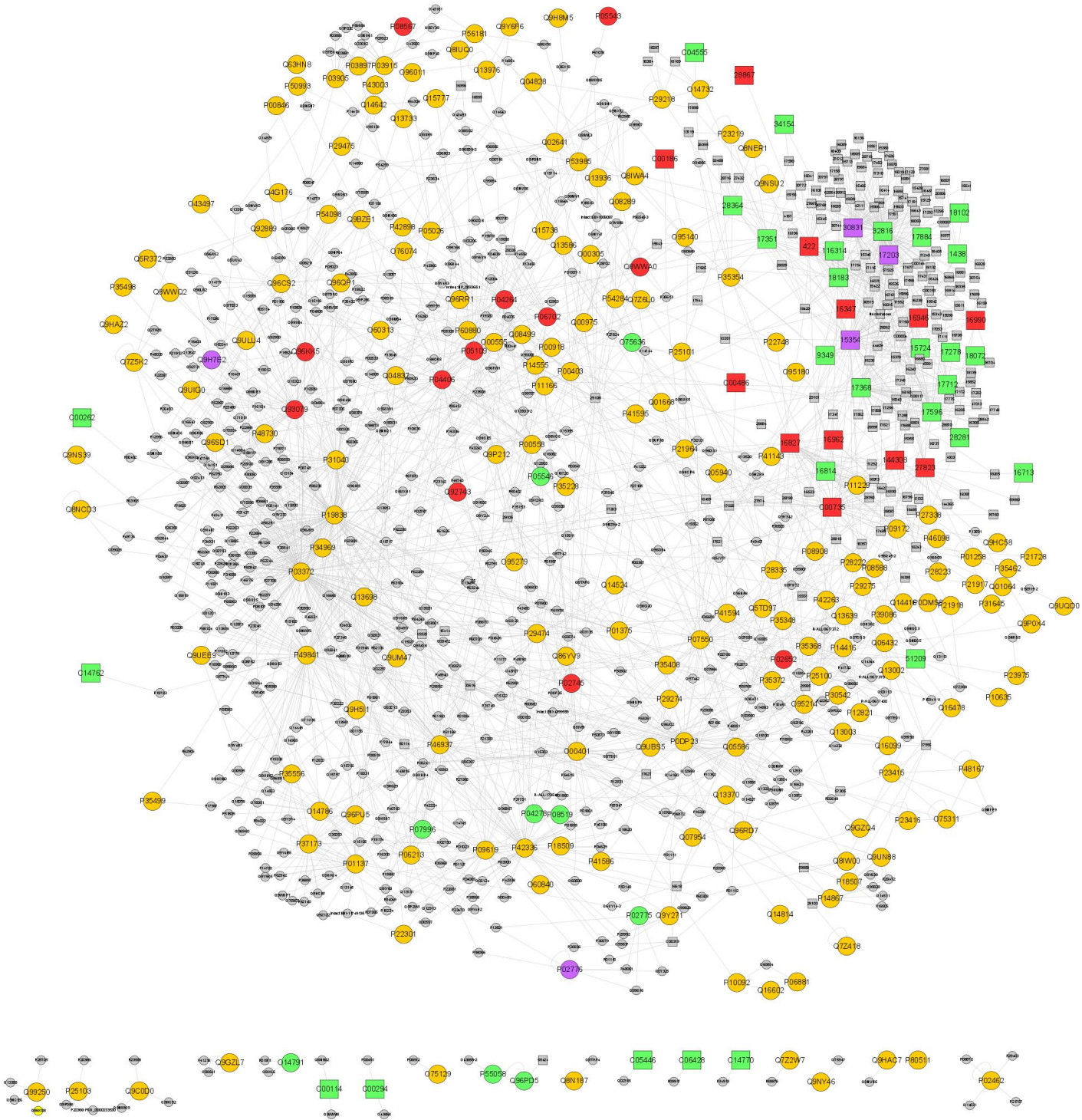


Fig. S4



- Migraine related protein
- Differential protein in N 0d vs A 0d
- Differential metabolites in N 0d vs A 0d
- Differential protein in A 0d vs A 10d
- Differential metabolites in A 0d vs A 10d
- Overlap between N 0d vs A 10d and A 0d vs A 10d
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Table S1

Table S1 Significant differences in amplitude of low-frequency fluctuation (ALFF) between groups

Regions with differential ALFF values in migraineurs compared with normal controls

Region	Cluster size	Peak T value	MNI coordinates		
			x	y	z
Temporal_Mid_R	18	4.63	54	-9	-15

Note: $P < 0.05$ (AlphaSim corrected)

Regions with differential ALFF values after acupuncture treatment compared with before

Region	Cluster size	Peak T value	MNI coordinates		
			x	y	z
Lingual Gyrus_R	63	6.76	12	-99	-12
Temporal Lobe_L	19	-6.25	-48	-45	-6
Precuneus_L	19	4.88	0	-69	51
Cerebellum_6_L	17	-7.03	-18	-72	-21

Note: $P < 0.05$ (AlphaSim corrected)

Table S2**Table S2** Significant differences in regional homogeneity (ReHo) between groups

Regions with differential ReHo values in migraineurs compared with normal controls

Region	Cluster size	Peak T value	MNI coordinates		
			x	y	z
Temporal_Mid_L	85	4.49	-60	-3	-15
ACC_sup_R	16	-3.88	6	30	9

Note: $P < 0.05$ (AlphaSim corrected)

Regions with differential ReHo values in blank control group before and after treatment

Region	Cluster size	Peak T value	MNI coordinates		
			x	y	z
Frontal_Mid_Orb_L	21	-5.92	-36	57	-12
Frontal Lobe_L	18	6.17	-21	24	21

Note: $P < 0.05$ (AlphaSim corrected)

Regions with differential ReHo values after acupuncture treatment compared with before

Region	Cluster size	Peak T value	MNI coordinates		
			x	y	z
Cerebelum_6_L	22	-5.2	-18	-75	-21

Note: $P < 0.05$ (AlphaSim corrected)

Table S3**Table S3** Detailed information about the differentially expressed metabolites between groups**Differential metabolites identified in positive mode (N 0d vs A 0d):**

Compound.ID	Name	KEGG.ID	HMDB.ID	label
0.709_75.0684	Trimethylamine n-oxide	C01104	HMDB0000925	up
0.715_98.0367	2491	C20441	HMDB0013742	up
0.719_177.0458	Fmet	NA	NA	up
0.736_338.0837	Ascorbyl glucoside	NA	NA	down
0.742_94.0088	Methylsulfonylmethane	C11142	HMDB0004983	up
0.749_103.0997	Choline	C00114	HMDB0000097	up
0.764_129.0425	L-pyroglutamic acid	C01879	HMDB0000267	up
0.767_122.0367	Benzoic acid	C00539	HMDB0001870	up
0.768_162.1083	(s)-1-methoxy-3-heptanethiol	null	HMDB0032380	up
0.769_115.0632	L-proline	C16435	NA	up
0.777_75.0684	Trimethylamine n-oxide	C01104	HMDB0000925	up
0.783_352.0283	Mfcd00060109	NA	NA	up
0.791_155.0348	N-methylethanolamine phosphate	C01210	HMDB0060173	up
0.904_184.0233	5-hydroxyisouric acid	C11821	HMDB0030097	down
0.937_94.0089	Methylsulfonylmethane	C11142	HMDB0004983	up
0.946_181.0962	6-methyltetrahydropterin	null	HMDB0002249	down
0.957_253.1174	Penciclovir	C07417	HMDB0014444	down
0.989_109.064	3,4-diaminopyridine	NA	NA	up
1.02_152.0333	Xanthine	C00385	HMDB0000292	down
1.516_176.0949	Cotinine	null	HMDB0001046	down
10.006_309.3028	1-hexadecanoylpyrrolidine	null	HMDB0032740	down
10.076_335.3183	(2e,4z)-n-isobutyl-2,4-octadecadienamamide	null	HMDB0031678	down
10.12_269.2716	Capsi-amide	C17515	HMDB0040940	down
10.139_323.3185	1-(14-methylhexadecanoyl)pyrrolidine	null	HMDB0034373	down
10.218_398.3394	Dilauroyl peroxide	NA	NA	down
10.262_436.3549	5b-cholestane-3a,7a,12a,26-tetrol	C05446	HMDB0001231	down
11.458_757.5612	Pc	null	HMDB0007973	down
2.272_104.0296	Methional	null	HMDB0031857	up
2.571_99.1048	Cyclohexylamine	C00571	HMDB0031404	up
2.586_120.0245	4-thiapentanoic acid	C08276	HMDB0001527	up
2.654_104.0296	Methional	null	HMDB0031857	up
2.751_148.0523	Cinnamic acid	C10438	HMDB0000930	up
2.877_383.115	Acutumidine	NA	NA	up
3.007_127.0998	Lq1825000	NA	NA	up
3.221_133.0527	2-oxindole	C12312	HMDB0061918	up
3.222_264.0898	Diftalone	NA	NA	up
3.271_333.1324	Oglufanide	null	HMDB0028830	down
3.388_143.0734	6-methylquinoline	null	HMDB0033115	down
3.46_165.1152	Pseudoephedrine	D08449	NA	up
3.477_208.0735	(2e)-3-(3,4-dimethoxyphenyl)acrylic acid	null	HMDB0034315	up
3.798_129.1517	Octylamine	NA	NA	up
3.88_265.1313	Z-leu-oh	NA	NA	up
3.955_279.147	Metalaxyl	C10947	HMDB0031802	up
3.989_264.1108	N-phenylacetylglutamine	C04148	HMDB0006344	up

3.994_309.1687	2762577	NA	NA	up
4.091_257.1626	2-hexenoylcarnitine	null	HMDB0013161	down
4.667_183.0895	Normetanephine	C05589	NA	up
4.727_244.1423	4-hydroxyprolylleucine	null	HMDB0028867	down
4.742_259.1783	Hexanoylcarnitine	null	HMDB0000705	down
4.912_185.1051	(2r,3s)-3-hydroxy-8-methyl-8-azabicyclo[3.2.	C10858	HMDB0006548	up
5.761_179.0438	181594	C03975	HMDB0000704	up
5.852_582.2476	Azelnidipine	NA	NA	up
5.854_129.0578	Leucoline	C06413	HMDB0033731	up
5.854_189.0787	Methyl indole-3-acetate	C20635	HMDB0029738	up
5.855_234.1366	Gy5875000	NA	NA	up
5.858_205.0737	5-methoxy-3-indoleacetate	C05660	HMDB0004096	up
5.863_219.0894	Aniracetam	NA	NA	up
5.871_446.0845	Baicalin	null	HMDB0041832	up
5.989_226.1206	Butopyronoxyl	NA	NA	down
6.182_164.0837	4-phenylbutyric acid	NA	NA	down
6.185_154.0993	Ri2735000	null	HMDB0031302	down
6.186_94.0782	1,3,5-heptatriene	null	HMDB0061889	down
6.189_108.0939	4-vinylcyclohexene	NA	NA	down
6.248_287.2094	5955761	C02838	HMDB0000791	down
6.319_228.1472	Leu-pro	null	HMDB0011175	down
6.33_446.0846	Baicalin	null	HMDB0041832	up
6.379_311.2095	(4s)-4-[(2e,4z)-2,4-decadienoyloxy]-4-(trimet	null	HMDB0013325	down
6.557_120.0575	Acetophenone	C07113	HMDB0033910	up
6.56_106.0418	Benzaldehyde	C00261	HMDB0006115	up
6.751_168.1149	Trans-geranic acid	NA	NA	down
6.756_185.1415	Atagabalin	NA	NA	down
6.756_200.1412	9-hydroxy-10-undecenoic acid	null	HMDB0032662	down
6.757_154.0993	Ri2735000	null	HMDB0031302	down
6.758_108.0939	4-vinylcyclohexene	NA	NA	down
6.758_186.1255	1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane-6,7	C17620	HMDB0041376	down
6.797_298.1415	Sesamex	NA	NA	down
6.803_320.1235	4-(2-carboxy-1-azetidiny)-n-(3-carboxy-3-hy	null	HMDB0033555	down
6.875_313.225	9-decenoylcarnitine	null	HMDB0013205	down
7.19_331.2137	Megastachine	NA	NA	down
7.225_228.1361	Traumatic acid	C16308	HMDB0000933	down
7.226_164.1201	Fenipentol	NA	NA	down
7.228_242.1518	5-octyl-2-oxotetrahydro-3-furancarboxylic ac	null	HMDB0030987	down
7.264_200.1411	9-hydroxy-10-undecenoic acid	null	HMDB0032662	down
7.281_315.2407	Decanoylcarnitine	null	HMDB0000651	down
7.401_204.115	3688	null	HMDB0033379	down
7.575_242.1518	5-octyl-2-oxotetrahydro-3-furancarboxylic ac	null	HMDB0030987	down
7.576_256.1673	4-[(2-isopropyl-5-methylcyclohexyl)oxy]-4-o	null	HMDB0036143	down
7.65_341.2565	Trans-2-dodecenoylcarnitine	null	HMDB0013326	down
7.717_263.1882	(+)-tramadol	C07153	HMDB0014339	up
7.733_214.1568	3-oxolauric acid	C02367	HMDB0010727	down
7.741_245.1448	S-3-oxodecanoyl cysteamine	null	HMDB0059773	down
7.945_367.2721	3, 5-tetradecadiencarnitine	null	HMDB0013331	down

8.107_208.1826	2-decylfuran	null	HMDB0032215	down
8.146_214.1568	3-oxolauric acid	C02367	HMDB0010727	down
8.146_286.2141	1792831	C19615	HMDB0000672	down
8.17_190.1721	1,4-di-tert-butylbenzene	null	HMDB0094670	down
8.182_222.1982	(2e,6e)-farnesol	C06081	HMDB0004305	down
8.183_208.1826	2-decylfuran	null	HMDB0032215	down
8.206_354.2556	Bufa-20,22-dienolide	NA	NA	up
8.223_256.0759	Benfuresate	NA	NA	down
8.332_356.2712	Ethyl docosahexaenoate	NA	NA	up
8.403_395.3034	9,12-hexadecadienoylcarnitine	null	HMDB0013334	down
8.458_248.1774	3222	null	HMDB0037719	down
8.47_314.2455	Vs1150000	null	HMDB0041220	down
8.471_368.1648	Dehydroepiandrosterone sulfate	C04555	HMDB0001032	down
8.561_240.1722	(1s,2r,5s)-2-isopropyl-5-methylcyclohexyl 3- α	null	HMDB0032369	down
8.627_204.1877	(e,e)-alpha-farnesene	C09665	HMDB0036066	up
8.632_257.199	N-lauroylglycine	null	HMDB0013272	up
8.705_300.2298	1,3-dihydroxy-2-propanyl (9z)-9-tetradecenoic acid	null	HMDB0011531	down
8.705_314.2456	Vs1150000	null	HMDB0041220	down
8.707_286.2142	1792831	C19615	HMDB0000672	down
8.716_324.2301	6-decylubiquinol	NA	NA	down
8.734_316.261	9,10-dihydroxystearic acid	NA	NA	down
8.739_298.2505	Ricinoleic acid	null	HMDB0034297	down
8.809_296.2348	13s-hydroxyoctadecadienoic acid	C14762	HMDB0004667	down
8.854_312.2299	(10e,12z)-9-hydroperoxy-10,12-octadecadienoic acid	null	HMDB0006940	down
8.863_182.167	4,8a-dimethyl-decahydronaphthalen-4a-ol	null	HMDB0036461	down
8.863_242.1881	3-oxotetradecanoic acid	null	HMDB0010730	down
8.863_94.0782	1,3,5-heptatriene	null	HMDB0061889	down
8.866_108.0939	4-vinylcyclohexene	NA	NA	down
8.884_310.2506	(+/-)-methoprene	NA	NA	down
8.941_310.2505	(+/-)-methoprene	NA	NA	down
8.944_296.2349	13s-hydroxyoctadecadienoic acid	C14762	HMDB0004667	down
8.992_302.2244	Eicosapentanoic acid	C06428	HMDB0001999	down
9.027_298.2505	Ricinoleic acid	null	HMDB0034297	down
9.075_278.0968	Egualen	NA	NA	down
9.076_310.123	Porphine	NA	NA	down
9.079_296.235	13s-hydroxyoctadecadienoic acid	C14762	HMDB0004667	down
9.081_397.2252	Drotaverine	null	HMDB0015669	up
9.292_316.24	Pregnane-3,20-dione	NA	NA	down
9.293_334.2506	Tetrahydrodeoxycorticosterone	C13713	HMDB0000879	down
9.479_279.2559	Linoleamide	null	HMDB0062656	down
9.48_262.2293	SI3675000	NA	NA	down
9.597_332.1435	9-fluoro-17 β -oxa-dextro-homoandrosta-1,4-diene	NA	NA	down
9.598_330.1482	Gibberellin a7	NA	NA	down
9.611_299.282	Threo-sphingosine, (-)-	null	HMDB0000252	down
9.643_255.2559	Hexadecanamide	NA	NA	down
9.715_281.2714	Oleamide	C19670	HMDB0002117	down
9.779_516.3793	3,16-dihydroxy-13,28-epoxyoleanan-22-yl acetate	null	HMDB0034645	down
9.784_332.1638	Gibberellin a4	NA	NA	down

9.784_336.1595	Plinabulin	NA	NA	down
9.785_514.3634	3,22-dihydroxy-28-oxoolean-12-en-16-yl acet	null	HMDB0034529	down
9.785_614.3993	Chaps	NA	NA	down
9.787_280.2399	2210856	null	HMDB0006270	down
9.791_356.2922	1-oleoyl-rac-glycerol	NA	NA	down
9.926_333.3028	(2e,4e,12z)-n-isobutyl-2,4,12-octadecatrienan	null	HMDB0032033	down
9.962_283.2871	Amide c18	C13846	HMDB0034146	down

Differential metabolites identified in negative mode (N 0d vs A 0d):

Compound.ID	Name	KEGG.ID	HMDB.ID	label
0.701_102.0317	2-oxobutyric acid	C00109	HMDB0000005	up
0.714_88.0161	Pyruvic acid	C00022	HMDB0000243	up
1.128_136.0383	Hypoxanthine	C00262	HMDB0000157	down
10.062_280.2399	Linoleic acid	C01595	HMDB0000673	down
10.284_256.24	Ethyl myristate	NA	NA	down
11.875_805.5826	O-[[{(2r)-2-(docosanoyloxy)-3-(pentadecanoy	null	HMDB0112334	up
2.177_268.0806	Inosine	C00294	HMDB0000195	down
3.116_213.0094	3-indoxyl sulphate	NA	NA	up
3.416_264.1107	N-phenylacetylglutamine	C04148	HMDB0006344	up
3.814_204.0091	Guaiacol sulfate	null	HMDB0060013	up
4.186_188.0142	P-cresylsulfate	null	HMDB0011635	up
4.198_232.0039	4-formyl-2-methoxyphenyl hydrogen sulfate	null	HMDB0041789	down
4.423_189.0788	Methyl indole-3-acetate	C20635	HMDB0029738	up
4.437_346.1626	[3-(hydroxymethyl)-3-methyl-2-oxobicyclo[2	null	HMDB0033223	up
4.477_216.0091	2-hydroxy-5-vinylphenyl hydrogen sulfate	null	HMDB0124978	down
5.415_446.0845	Baicalin	null	HMDB0041832	up
5.586_228.1359	Traumatic acid	C16308	HMDB0000933	down
6.252_270.0851	4-imino-1-(beta-d-ribofuranosyl)-1,4-dihydro	NA	NA	down
7.902_367.9077	Triclosan sulfate	null	HMDB0061387	up
8.295_286.2142	Hexadecanedioic acid	C19615	HMDB0000672	down
8.619_257.199	N-lauroylglycine	null	HMDB0013272	up
8.627_331.2147	Megastachine	NA	NA	up
8.812_316.2611	9,10-dihydroxystearic acid	NA	NA	down
8.851_296.2349	13s-hydroxyoctadecadienoic acid	C14762	HMDB0004667	down
8.952_296.235	13s-hydroxyoctadecadienoic acid	C14762	HMDB0004667	down
8.963_314.2456	Vs1150000	null	HMDB0041220	down
9.021_296.2349	13s-hydroxyoctadecadienoic acid	C14762	HMDB0004667	down
9.118_298.2505	Ricinoleic acid	null	HMDB0034297	down
9.121_320.2351	11,12-epoxy-(5z,8z,11z)-icosatrienoic acid	C14770	NA	down
9.226_298.2505	Ricinoleic acid	null	HMDB0034297	down
9.375_300.2662	12-hsa	null	HMDB0061706	down
9.438_296.2349	13s-hydroxyoctadecadienoic acid	C14762	HMDB0004667	down
9.501_300.2662	12-hsa	null	HMDB0061706	down
9.817_278.2243	Elaidolinolenic acid	NA	NA	down

Differential metabolites identified in positive mode (N 0d vs S 0d):

Compound.ID	Name	KEGG.ID	HMDB.ID	label
2.085_268.0805	Inosine	C00294	HMDB0000195	down
5.81_188.1048	Azelaic acid	C08261	HMDB0000784	up

2.468_100.0524	5-valerolactone	C02240	NA	up
3.982_138.068	Veratrole	NA	NA	up
3.983_110.0731	Trans,trans-2,4-heptadienal	NA	NA	up
4.333_179.0944	Salsolinol	C09642	HMDB0042012	up
4.55_152.12	Pulegone	C09893	HMDB0035604	up
4.742_259.1783	Hexanoylcarnitine	null	HMDB0000705	down
5.632_208.0734	3,4-dimethoxycinnamic acid	NA	NA	up
6.068_144.0575	1-naphthol	C11714	HMDB0012138	up
7.281_315.2407	Decanoylcarnitine	null	HMDB0000651	down
8.006_343.2721	Lauroylcarnitine	NA	NA	down
8.047_318.2192	15-deoxy- δ 12,14-prostaglandin a1	NA	NA	up
8.113_288.2087	Epitestosterone	null	HMDB0000628	up
9.551_378.2766	2-arachidonoyl glycerol	C13856	HMDB0004666	up
9.791_356.2922	1-oleoyl-rac-glycerol	NA	NA	up
3.076_185.105	Ecgonine	C10858	HMDB0006548	up
3.119_141.0789	Hypoglycin a	NA	NA	up
3.987_155.0945	Arecoline	C10129	HMDB0030353	up
5.235_181.1102	3,4-dimethoxyphenethylamine (dmpea)	NA	NA	up
5.81_202.1204	Sebacic acid	C08277	HMDB0000792	up
8.847_299.2822	D-sphingosine	C00319	NA	up
0.694_174.0503	(e)-2-[(2s)-2-amino-2-carboxyethoxy]-2-hydr	NA	NA	up
0.709_75.0684	Trimethylamine n-oxide	C01104	HMDB0000925	up
0.719_177.0458	Fmet	NA	NA	up
0.736_338.0837	Ascorbyl glucoside	NA	NA	down
0.957_253.1174	Penciclovir	C07417	HMDB0014444	down
10.195_344.2712	Cardanolide	NA	NA	down
10.244_434.243	1-linoleyl-sn-glycerol 3-phosphate	NA	NA	up
10.314_292.2375	Edetol	NA	NA	down
10.332_363.3133	Terminaline	NA	NA	down
10.334_346.2868	Cetyl benzoate	null	HMDB0094685	down
11.425_731.546	1-tetradecanoyl-2-[(9z)-octadecenoyl]-sn-glyc	null	HMDB0007873	down
11.458_757.5612	Pc	null	HMDB0007973	down
2.272_104.0296	Methional	null	HMDB0031857	up
2.372_173.1416	Imagabalin	NA	NA	up
2.468_189.1	(+)-castanospermine	NA	NA	up
2.565_189.1	(+)-castanospermine	NA	NA	up
2.586_120.0245	4-thiapentanoic acid	C08276	HMDB0001527	up
2.654_104.0296	Methional	null	HMDB0031857	up
2.926_226.0953	Dl-carbidopa	NA	NA	up
3.14_159.0895	N-acetylvaline	null	HMDB0011757	up
3.141_124.0524	Guaiacol	C15572	HMDB0001398	up
3.343_412.2366	Ethyl (2r)-2-[(3s,5as,9ar,10as)-3-methyl-1,4-c	null	HMDB0061178	up
3.755_186.1367	Capuride	NA	NA	up
3.863_216.1473	Valylvaline	null	HMDB0029140	up
3.917_216.09	1,2,3,4-tetrahydro-beta-carboline-3-carboxyli	null	HMDB0035665	up
3.955_279.147	Metalaxyl	C10947	HMDB0031802	up
3.982_109.0892	3662332	NA	NA	up
3.983_187.1207	Pivagabine	NA	NA	up

3.984_127.0996	Lq1825000	NA	NA	up
3.985_94.0782	1,3,5-heptatriene	null	HMDB0061889	up
4.064_215.1155	O-propenoyl-d-carnitine	null	HMDB0013124	up
4.083_217.1312	Propionylcarnitine	C03017	HMDB0000824	up
4.272_285.1576	3-[2-(dimethylamino)ethyl]-5-(1h-1,2,4-triazol-5-yl)-1,2,4-triazole	null	HMDB0060847	up
4.33_260.1734	Carisoprodol	C07927	HMDB0014539	up
4.331_215.1156	O-propenoyl-d-carnitine	null	HMDB0013124	up
4.332_244.1787	Leu-leu	C11332	HMDB0028933	down
4.397_217.1313	Propionylcarnitine	C03017	HMDB0000824	up
4.432_171.1256	Gabapentin	C07018	HMDB0005015	up
4.5_211.1207	Isoprenaline	C07056	HMDB0015197	up
4.558_238.1204	2444643wxk	null	HMDB0034046	up
4.615_227.1157	Dimetofrine	NA	NA	up
4.688_170.0578	3,4-dihydroxyphenylglycol	C05576	HMDB0000318	down
4.738_198.0529	Vanillyl mandelic acid	C05584	HMDB0133489	down
4.742_166.0264	Phthalic acid	C01606	HMDB0002107	down
4.78_169.1101	Aceclidine	NA	NA	up
4.781_124.0888	3721	null	HMDB0031686	up
4.782_123.1048	6-[(1z)-1-propen-1-yl]-2,3,4,5-tetrahydropyridine	null	HMDB0033365	up
4.782_141.1154	8-methyl-8-azabicyclo[3.2.1]octan-3-ol	NA	NA	up
4.782_187.1207	Pivagabine	NA	NA	up
4.782_78.0469	Benzene	C01407	HMDB0001505	up
4.783_151.0996	Hydroxyamphetamine	null	HMDB0060765	up
4.783_201.1364	Capryloylglycine	null	HMDB0000832	up
4.784_152.0836	2128	null	HMDB0041326	up
4.79_231.1469	N-(tert-butoxycarbonyl)-l-leucine	NA	NA	up
4.804_226.084	Genipin	null	HMDB0035830	up
5.052_187.1206	Pivagabine	NA	NA	up
5.076_229.1313	Butenylcarnitine	null	HMDB0013126	up
5.159_244.1211	Rac-etomidate	NA	NA	up
5.163_185.1414	Atagabalin	NA	NA	up
5.165_225.1363	2616	C07129	HMDB0015009	up
5.233_199.1207	Methyl (2r,3s)-3-hydroxy-8-methyl-8-azabicyclo[3.2.1]octane	C12448	HMDB0006406	up
5.237_182.0918	(e)-dacarbazine	NA	NA	up
5.238_142.0993	2347	null	HMDB0031403	up
5.292_184.1099	5,5-dimethyl-4-(3-oxobutyl)dihydro-2(3h)-furan	NA	NA	up
5.314_243.1469	Tiglylcarnitine	null	HMDB0002366	up
5.412_180.0785	Propylparaben	null	HMDB0032574	down
5.412_220.0711	Carbamorph	NA	NA	down
5.514_155.1309	To0127900	null	HMDB0031179	up
5.514_183.1259	Methyprylon	null	HMDB0015239	up
5.514_201.1364	Capryloylglycine	null	HMDB0000832	up
5.76_201.1363	Capryloylglycine	null	HMDB0000832	up
5.789_106.0783	P-xylene	C06756	HMDB0059924	up
5.808_205.1315	Panthenol	null	HMDB0004231	up
5.81_124.0888	3721	null	HMDB0031686	up
5.811_152.0836	2128	null	HMDB0041326	up
5.811_216.1361	1780537	null	HMDB0000888	up

5.819_225.1365	2616	C07129	HMDB0015009	up
5.9_195.1259	4-(2-aminopropoxy)-3,5-dimethylphenol	null	HMDB0060954	up
5.9_307.1782	Buflomedil	NA	NA	up
5.901_167.1309	2-n-butyl-4-ethyl-5-methyloxazole	null	HMDB0037886	up
5.902_213.1363	C7-hsl	NA	NA	up
5.952_311.2094	(4s)-4-[(2e,4z)-2,4-decadienoyloxy]-4-(trimet	null	HMDB0013325	up
6.009_140.1201	2389	null	HMDB0031834	up
6.011_168.1149	Trans-geranic acid	NA	NA	up
6.039_592.3263	Urobilinogen	C05790	HMDB0001898	up
6.067_219.0895	Aniracetam	NA	NA	up
6.097_196.1098	Hexyl 2-furoate	null	HMDB0037725	up
6.103_213.1364	C7-hsl	NA	NA	up
6.133_310.1415	Lersivirine	NA	NA	up
6.147_311.2095	(4s)-4-[(2e,4z)-2,4-decadienoyloxy]-4-(trimet	null	HMDB0013325	up
6.157_215.152	11343172	NA	NA	up
6.248_287.2094	5955761	C02838	HMDB0000791	down
6.346_170.0941	2-(diethoxymethyl)furan	NA	NA	down
6.379_311.2095	(4s)-4-[(2e,4z)-2,4-decadienoyloxy]-4-(trimet	null	HMDB0013325	down
6.598_534.0282	Udp-beta-l-threo-pentopyranos-4-ulose	NA	NA	down
6.622_301.2251	3-[(2,6-dimethylheptanoyl)oxy]-4-(trimethyla	null	HMDB0006320	down
6.649_286.2296	Vitamin a	C17276	HMDB0000305	up
6.708_229.1677	1872050	null	HMDB0013267	up
6.797_212.1411	Mfcd18781916	null	HMDB0033601	up
6.875_313.225	9-decenoylcarnitine	null	HMDB0013205	down
6.88_329.2563	O-(4,8-dimethylnonanoyl)carnitine	null	HMDB0006202	up
7.016_279.1833	Moxisylyte	NA	NA	up
7.167_330.2557	Ethyl eicosapentaenoic acid	C16184	HMDB0039530	down
7.332_329.1502	Cypendazole	NA	NA	down
7.508_327.2407	Cxa-10	null	HMDB0062737	up
7.57_414.204	Inspra	C12512	HMDB0014838	down
7.623_270.2346	1-methyl-4-[(8e)-10-methyl-6-methylene-8-ur	null	HMDB0039155	up
7.636_327.2407	Cxa-10	null	HMDB0062737	up
7.65_341.2565	Trans-2-dodecenoylcarnitine	null	HMDB0013326	down
7.679_344.2098	Oxyphencylimine	C07851	HMDB0014527	up
7.689_590.3103	Urobilin, (-)-	null	HMDB0004160	down
7.698_414.204	Inspra	C12512	HMDB0014838	down
7.717_263.1882	(+)-tramadol	C07153	HMDB0014339	up
7.76_329.2563	O-(4,8-dimethylnonanoyl)carnitine	null	HMDB0006202	up
7.781_263.1884	(+)-tramadol	C07153	HMDB0014339	up
7.785_286.0863	Ethofumesate	NA	NA	up
7.857_263.1883	(+)-tramadol	C07153	HMDB0014339	up
7.945_367.2721	3, 5-tetradecadiencarnitine	null	HMDB0013331	down
7.977_327.2406	Cxa-10	null	HMDB0062737	up
8.005_184.1462	10-undecenoic acid	C13910	HMDB0033724	down
8.111_408.2511	Asebotoxin ii	NA	NA	up
8.118_302.2244	Eicosapentanoic acid	C06428	HMDB0001999	up
8.146_286.2141	1792831	C19615	HMDB0000672	down
8.153_307.2145	Betaxolol	C06849	HMDB0014341	up

8.174_388.261	7alpha-hydroxy-3-oxochol-4-en-24-oic acid	null	HMDB0062744	down
8.182_313.2613	Palgly	null	HMDB0013034	up
8.223_256.0759	Benfuresate	NA	NA	down
8.246_315.277	(8e)-2-amino-8-octadecene-1,3,4-triol	null	HMDB0038057	up
8.252_236.1411	4-(heptyloxy)benzoic acid	NA	NA	up
8.258_369.2877	Cis-5-tetradecenoylcarnitine	null	HMDB0002014	down
8.304_414.204	Inspra	C12512	HMDB0014838	down
8.349_301.2978	Sphinganine	C00836	HMDB0000269	down
8.393_315.277	(8e)-2-amino-8-octadecene-1,3,4-triol	null	HMDB0038057	up
8.396_279.2557	Linoleamide	null	HMDB0062656	up
8.403_395.3034	9,12-hexadecadienoylcarnitine	null	HMDB0013334	down
8.406_297.2666	Unii:out5yhb7bo	NA	NA	up
8.454_162.1408	Hexylbenzene	null	HMDB0061815	down
8.455_240.1725	(1s,2r,5s)-2-isopropyl-5-methylcyclohexyl 3- α	null	HMDB0032369	down
8.536_371.3034	4149853	null	HMDB0005066	down
8.561_240.1722	(1s,2r,5s)-2-isopropyl-5-methylcyclohexyl 3- α	null	HMDB0032369	down
8.575_313.2613	Palgly	null	HMDB0013034	up
8.593_287.2457	N,n-bis(2-hydroxyethyl)dodecanamide	null	HMDB0032358	down
8.645_331.2145	Megastachine	NA	NA	down
8.658_397.3191	(2e)-hexadecenoylcarnitine	null	HMDB0006317	down
8.707_286.2142	1792831	C19615	HMDB0000672	down
8.786_330.2557	Ethyl eicosapentaenoic acid	C16184	HMDB0039530	down
8.859_415.3087	Myxalamid a	NA	NA	up
8.863_242.1881	3-oxotetradecanoic acid	null	HMDB0010730	down
8.924_430.3082	Hecogenin	NA	NA	down
8.969_252.1725	Cuauhtemone	NA	NA	down
8.992_302.2244	Eicosapentanoic acid	C06428	HMDB0001999	down
9.02_416.3288	Calcitriol	C01673	HMDB0001903	down
9.075_278.0968	Egualen	NA	NA	down
9.076_310.123	Porphine	NA	NA	down
9.081_397.2252	Drotaverine	null	HMDB0015669	down
9.094_338.2455	8,9-dihetre	C14773	HMDB0002311	down
9.292_316.24	Pregnane-3,20-dione	NA	NA	down
9.379_335.3185	(2e,4z)-n-isobutyl-2,4-octadecadienamide	null	HMDB0031678	up
9.382_352.2611	Glyceryl 2-linolenate	null	HMDB0011540	up
9.401_330.1281	Flurbiprofen axetil	NA	NA	down
9.458_268.24	Mfcd00133175	null	HMDB0060038	down
9.529_354.2765	1715064	null	HMDB0011538	up
9.537_402.2768	1,3-dihydroxy-2-propanyl (4z,7z,10z,13z,16z	null	HMDB0011557	up
9.551_395.3033	9,12-hexadecadienoylcarnitine	null	HMDB0013334	up
9.583_408.1959	(6beta,8xi,11beta,14xi,16alpha)-9-fluoro-6,11	null	HMDB0061022	up
9.588_262.2294	SI3675000	NA	NA	up
9.589_354.2766	1715064	null	HMDB0011538	up
9.59_336.2661	Pregnanetriol	null	HMDB0006070	up
9.592_371.3034	4149853	null	HMDB0005066	up
9.636_421.3189	(4s)-4-[(9z,12z,15z)-9,12,15-octadecatrienoyl	null	HMDB0006319	up
9.686_386.3393	1,3-dihydroxy-2-propanyl icosanoate	null	HMDB0011542	down

Differential metabolites identified in negative mode (N 0d vs S 0d):

Compound.ID	Name	KEGG.ID	HMDB.ID	label
1.128_136.0383	Hypoxanthine	C00262	HMDB0000157	down
2.177_268.0806	Inosine	C00294	HMDB0000195	up
4.36_201.1364	Capryloylglycine	null	HMDB0000832	up
5.964_180.0786	Propylparaben	D01422	NA	up
8.244_216.1723	12-hydroxydodecanoic acid	C08317	HMDB0002059	down
8.295_286.2142	Hexadecanedioic acid	C19615	HMDB0000672	down
9.121_320.2351	11,12-epoxy-(5z,8z,11z)-icosatrienoic acid	C14770	NA	down
0.631_174.0162	Trans-aconitic acid	C02341	HMDB0000958	down
3.156_217.1311	Propionylcarnitine	C03017	HMDB0000824	up
3.326_187.1206	Pivagabine	NA	NA	up
3.373_187.1206	Pivagabine	NA	NA	up
3.814_204.0091	Guaiacol sulfate	null	HMDB0060013	up
5.057_246.0195	3-(3-sulfooxyphenyl)propanoic acid	null	HMDB0094710	up
5.523_212.0319	5-carboxyvanillic acid	NA	NA	up
5.53_184.1098	5,5-dimethyl-4-(3-oxobutyl)dihydro-2(3h)-fui	NA	NA	up
5.553_346.1626	[3-(hydroxymethyl)-3-methyl-2-oxobicyclo[2	null	HMDB0033223	up
5.65_184.1097	5,5-dimethyl-4-(3-oxobutyl)dihydro-2(3h)-fui	NA	NA	up
5.712_178.0628	(e)-4-methoxycinnamic acid	null	HMDB0002040	up
6.219_228.0456	(3e)-4-phenyl-3-buten-2-yl hydrogen sulfate	null	HMDB0133731	up
6.252_270.0851	4-imino-1-(beta-d-ribofuranosyl)-1,4-dihydro	NA	NA	down
6.807_408.2146	Cascarillin	null	HMDB0036836	down
7.758_214.1567	2-hexyltetrahydrofuran-4-yl acetate	null	HMDB0037398	down
7.787_396.1968	20-oxopregn-5-en-3-yl hydrogen sulfate	null	HMDB0000774	down
7.902_367.9077	Triclosan sulfate	null	HMDB0061387	up
8.092_454.2566	Rhodojaponin iv	NA	NA	up
8.308_240.1724	(1s,2r,5s)-2-isopropyl-5-methylcyclohexyl 3-α	null	HMDB0032369	down
8.622_312.23	(10e,12z)-9-hydroperoxy-10,12-octadecadien	null	HMDB0006940	down
8.627_331.2147	Megastachine	NA	NA	down
8.727_242.1881	3-oxotetradecanoic acid	null	HMDB0010730	down
8.959_433.3192	B-d-glucopyranosiduronic acid, (3a,5b)-24-[(α	C15557	HMDB0000698	up
9.034_244.2036	Mfcd00059633	null	HMDB0061656	down
9.068_430.3079	Hecogenin	NA	NA	down
9.068_476.3136	2,3,14,20-tetrahydroxy-22,23-epoxyergost-7-α	null	HMDB0038497	down
9.438_296.2349	13s-hydroxyoctadecadienoic acid	C14762	HMDB0004667	down
9.501_300.2662	12-hsa	null	HMDB0061706	down
9.645_434.2447	1-linoleyl-sn-glycerol 3-phosphate	NA	NA	up
9.731_298.2505	Ricinoleic acid	null	HMDB0034297	down
9.818_410.2433	1-palmitoyl lysophosphatidic acid	C04036	HMDB0007853	up

Differential metabolites identified in positive mode (N 0d vs B 0d):

Compound.ID	Name	KEGG.ID	HMDB.ID	label
0.66_215.9152	Mutagen x	NA	NA	down
0.715_98.0367	2491	C20441	HMDB0013742	up
0.719_177.0458	Fmet	NA	NA	up
0.736_338.0837	Ascorbyl glucoside	NA	NA	down
0.769_115.0632	L-proline	C16435	NA	up
0.791_155.0348	N-methylethanolamine phosphate	C01210	HMDB0060173	up
0.837_131.0583	N-acetyl-l-alanine	null	HMDB0000766	up

0.946_181.0962	6-methyltetrahydropterin	null	HMDB0002249	down
0.957_253.1174	Penciclovir	C07417	HMDB0014444	down
10.026_535.4004	Vitamin e nicotinate	NA	NA	up
10.218_398.3394	Dilauroyl peroxide	NA	NA	down
11.215_755.546	1-palmitoyl-2-[(9z,12z,15z)-octadecatrienoyl]	null	HMDB0007975	down
2.085_268.0805	Inosine	C00294	HMDB0000195	down
2.586_120.0245	4-thiapentanoic acid	C08276	HMDB0001527	up
2.654_104.0296	Methional	null	HMDB0031857	up
2.926_226.0953	Dl-carbidopa	NA	NA	up
3.53_243.147	Tiglylcarnitine	null	HMDB0002366	up
3.706_245.1626	2-methylbutyrylcarnitine	null	HMDB0000378	up
3.76_224.0908	Etofylline	NA	NA	down
3.917_216.09	1,2,3,4-tetrahydro-beta-carboline-3-carboxyli	null	HMDB0035665	up
3.955_279.147	Metalaxyl	C10947	HMDB0031802	up
4.091_257.1626	2-hexenoylcarnitine	null	HMDB0013161	down
4.151_174.0714	4,4'-thiobis-2-butanone	null	HMDB0037155	down
4.154_191.0979	Trihomomethionine	NA	NA	down
4.272_285.1576	3-[2-(dimethylamino)ethyl]-5-(1h-1,2,4-triazol	null	HMDB0060847	up
4.307_209.0688	Qv1mvo1r	NA	NA	up
4.308_134.0367	Ortho-phthalaldehyde	NA	NA	up
4.508_200.1524	Hmba	null	HMDB0041901	down
4.688_170.0578	3,4-dihydroxyphenylglycol	C05576	HMDB0000318	down
4.853_283.1782	6571082	null	HMDB0060994	down
5.039_256.142	Pulcherriminic acid	NA	NA	down
5.159_244.1211	Rac-etomidate	NA	NA	up
5.352_279.1833	Moxisylyte	NA	NA	up
5.433_92.0626	Toluene	C01455	HMDB0034168	down
5.548_285.1938	(4s)-4-[(2e)-2-octenoyloxy]-4-(trimethylamm	null	HMDB0013324	down
5.612_302.0788	Hesperetin	C01709	HMDB0005782	up
5.871_309.1938	Metipranolol	C07915	HMDB0015345	down
5.9_307.1782	Buflomedil	NA	NA	up
5.949_309.1937	Metipranolol	C07915	HMDB0015345	down
5.989_226.1206	Butopyronoxyl	NA	NA	down
6.068_144.0575	1-naphthol	C11714	HMDB0012138	up
6.079_199.1208	Methyl (2r,3s)-3-hydroxy-8-methyl-8-azabicy	C12448	HMDB0006406	down
6.138_289.1346	Chloropyramine	null	HMDB0015690	up
6.16_274.041	Ensulizole	NA	NA	up
6.168_309.1938	Metipranolol	C07915	HMDB0015345	down
6.325_250.1205	Trolox	null	HMDB0038804	down
6.342_203.0946	Indole-3-butyric acid	C11284	HMDB0002096	down
6.346_170.0941	2-(diethoxymethyl)furan	NA	NA	down
6.358_136.0524	Phenyl acetate	C00548	NA	down
6.379_311.2095	(4s)-4-[(2e,4z)-2,4-decadienoyloxy]-4-(trimet	null	HMDB0013325	down
6.604_276.1724	Cyclandelate	null	HMDB0015586	up
6.797_212.1411	Mfcd18781916	null	HMDB0033601	up
6.799_150.068	4'-methoxyacetophenone	null	HMDB0032570	down
6.8_264.136	(±)-(2e)-abscisic acid	null	HMDB0036093	down
6.804_262.1204	Helenalin	NA	NA	down

6.875_313.225	9-decenoylcarnitine	null	HMDB0013205	down
7.136_226.084	Genipin	null	HMDB0035830	down
7.317_268.1308	2-(2-carboxyethyl)-4-methyl-5-pentyl-3-furoi	null	HMDB0061643	up
7.473_284.071	Diazepam	C06948	HMDB0014967	down
7.554_166.0993	Tbhq	null	HMDB0032062	down
7.554_284.0709	Diazepam	C06948	HMDB0014967	down
7.555_120.0939	Cumene	C14396	HMDB0034029	down
7.592_190.0992	Butylphthalide	C17854	HMDB0032064	up
7.638_120.0939	Cumene	C14396	HMDB0034029	down
7.65_341.2565	Trans-2-dodecenoylcarnitine	null	HMDB0013326	down
7.681_210.089	3-(3,5-dimethoxyphenyl)propanoic acid	null	HMDB0127493	down
7.717_263.1882	(+)-tramadol	C07153	HMDB0014339	up
7.758_592.326	Urobilinogen	C05790	HMDB0001898	up
7.761_273.2665	Hexadecaphinganine	NA	NA	down
7.776_317.2928	2-amino-1,3,4-octadecanetriol	C12144	HMDB0004610	down
7.781_263.1884	(+)-tramadol	C07153	HMDB0014339	up
7.785_286.0863	Ethofumesate	NA	NA	up
7.794_192.1151	Ibufenac	NA	NA	down
7.857_263.1883	(+)-tramadol	C07153	HMDB0014339	up
7.945_367.2721	3, 5-tetradecadiencarnitine	null	HMDB0013331	down
8.106_222.1982	(2e,6e)-farnesol	C06081	HMDB0004305	down
8.107_208.1826	2-decylfuran	null	HMDB0032215	down
8.112_134.1095	P-cymene	C06575	HMDB0005805	down
8.112_152.12	Citral	C01499	NA	down
8.113_120.0938	Cumene	C14396	HMDB0034029	down
8.118_302.2244	Eicosapentanoic acid	C06428	HMDB0001999	up
8.119_194.1306	Sedanolid	NA	NA	down
8.119_280.0761	Esonarimod	NA	NA	down
8.119_289.0763	Adrafinil	NA	NA	down
8.12_264.1037	2-(6'-methylthio)hexylmalic acid	NA	NA	down
8.146_214.1568	3-oxolauric acid	C02367	HMDB0010727	down
8.146_286.2141	1792831	C19615	HMDB0000672	down
8.17_190.1721	1,4-di-tert-butylbenzene	null	HMDB0094670	down
8.182_222.1982	(2e,6e)-farnesol	C06081	HMDB0004305	down
8.183_208.1826	2-decylfuran	null	HMDB0032215	down
8.223_256.0759	Benfuresate	NA	NA	down
8.349_301.2978	Sphinganine	C00836	HMDB0000269	down
8.417_328.225	(10e,15z)-9,12,13-trihydroxy-10,15-octadeca	null	HMDB0035919	up
8.455_240.1725	(1s,2r,5s)-2-isopropyl-5-methylcyclohexyl 3- α	null	HMDB0032369	down
8.489_178.1356	Propofol	C07523	HMDB0014956	down
8.561_240.1722	(1s,2r,5s)-2-isopropyl-5-methylcyclohexyl 3- α	null	HMDB0032369	down
8.582_285.1026	Probenecid	C07372	HMDB0015166	down
8.587_590.3097	Urobilin, (-)-	null	HMDB0004160	up
8.593_287.2457	N,n-bis(2-hydroxyethyl)dodecanamide	null	HMDB0032358	down
8.628_327.2772	N-heptadecanoylglycine	null	HMDB0013246	down
8.645_331.2145	Megastachine	NA	NA	down
8.681_236.1411	4-(heptyloxy)benzoic acid	NA	NA	down
8.811_238.1567	(2z)-3,7-dimethyl-2,6-octadien-1-yl 3-oxobuta	null	HMDB0038256	down

8.992_302.2244	Eicosapentanoic acid	C06428	HMDB0001999	down
9.027_298.2505	Ricinoleic acid	null	HMDB0034297	down
9.075_278.0968	Egualen	NA	NA	down
9.076_310.123	Porphine	NA	NA	down
9.182_282.198	Retinal 2	C05918	HMDB0035695	down
9.479_279.2559	Linoleamide	null	HMDB0062656	down
9.48_262.2293	SI3675000	NA	NA	down
9.529_354.2765	1715064	null	HMDB0011538	up
9.537_402.2768	1,3-dihydroxy-2-propanyl (4z,7z,10z,13z,16z	null	HMDB0011557	up
9.551_378.2766	2-arachidonoyl glycerol	C13856	HMDB0004666	up
9.551_395.3033	9,12-hexadecadienoylcarnitine	null	HMDB0013334	up
9.583_408.1959	(6beta,8xi,11beta,14xi,16alpha)-9-fluoro-6,11	null	HMDB0061022	up
9.596_334.1439	Pimobendan	NA	NA	down
9.596_336.1393	Estra-1,3,5(10)-trien-3-yl hydrogen sulfate	NA	NA	down
9.597_332.1435	9-fluoro-17?-oxa-dextro-homoandrosta-1,4-di	NA	NA	down
9.598_330.1482	Gibberellin a7	NA	NA	down
9.617_418.308	Dinp	NA	NA	down
9.643_255.2559	Hexadecanamide	NA	NA	down
9.711_302.2243	Eicosapentanoic acid	C06428	HMDB0001999	up
9.715_281.2714	Oleamide	C19670	HMDB0002117	down
9.716_246.2345	Estrane	NA	NA	down
9.783_220.1461	Dk3970000	null	HMDB0013817	down
9.791_356.2922	1-oleoyl-rac-glycerol	NA	NA	up
9.793_264.245	2-[(5z)-5-tetradecen-1-yl]cyclobutanone	null	HMDB0037543	down
9.926_333.3028	(2e,4e,12z)-n-isobutyl-2,4,12-octadecatrienan	null	HMDB0032033	down
9.95_198.1617	4253	null	HMDB0029585	up
9.962_283.2871	Amide c18	C13846	HMDB0034146	down

Differential metabolites identified in negative mode (N 0d vs B 0d):

Compound.ID	Name	KEGG.ID	HMDB.ID	label
1.128_136.0383	Hypoxanthine	C00262	HMDB0000157	down
2.177_268.0806	Inosine	C00294	HMDB0000195	down
8.244_216.1723	12-hydroxydodecanoic acid	C08317	HMDB0002059	down
8.295_286.2142	Hexadecanedioic acid	C19615	HMDB0000672	down
9.121_320.2351	11,12-epoxy-(5z,8z,11z)-icosatrienoic acid	C14770	NA	down
9.219_200.1774	Lauric acid	C02679	HMDB0000638	down
6.63_166.0992	Perillic acid	C11924	HMDB0004586	down
0.738_115.0633	L-proline	C00148	HMDB0000162	up
10.092_328.2974	Glycol stearate	null	HMDB0032477	down
10.558_308.2713	Ethyl linoleate	NA	NA	down
5.057_246.0195	3-(3-sulfooxyphenyl)propanoic acid	null	HMDB0094710	up
5.433_230.0247	4-vinylguaiaicol sulfate	null	HMDB0127980	up
5.532_382.0356	5-(5,7-dihydroxy-4-oxo-3,4-dihydro-2h-chror	null	HMDB0029202	up
6.03_250.0298	Bisphenol s	NA	NA	up
6.219_228.0456	(3e)-4-phenyl-3-buten-2-yl hydrogen sulfate	null	HMDB0133731	up
7.758_214.1567	2-hexyltetrahydrofuran-4-yl acetate	null	HMDB0037398	down
8.113_309.194	Metipranolol	C07915	HMDB0015345	up
8.308_240.1724	(1s,2r,5s)-2-isopropyl-5-methylcyclohexyl 3- α	null	HMDB0032369	down

8.38_499.9373	Perfluorooctanesulfonic acid	C18142	HMDB0059586	up
8.431_334.2143	1886839	NA	NA	down
8.627_331.2147	Megastachine	NA	NA	down
8.851_296.2349	13s-hydroxyoctadecadienoic acid	C14762	HMDB0004667	down
9.095_661.852	Closantel	NA	NA	up
9.438_296.2349	13s-hydroxyoctadecadienoic acid	C14762	HMDB0004667	down
9.468_477.2852	2-linoleoyl-sn-glycero-3-phosphoethanolamir	null	HMDB0011477	up
9.501_300.2662	12-hsa	null	HMDB0061706	down
9.608_482.2431	2-hydroxy-3-(phosphonoxy)propyl (4z,7z,1C	null	HMDB0114755	up
9.817_278.2243	Elaidolinolenic acid	NA	NA	down

Differential metabolites identified in positive mode (A 0d vs A10d):

Compound.ID	Name	KEGG.ID	HMDB.ID	label
0.708_143.0583	Trimethadione	null	HMDB0014491	down
0.711_161.105	DI-carnitine	NA	NA	down
0.717_228.1108	Tetraacetythylenediamine	null	HMDB0040573	up
0.749_103.0997	Choline	C00114	HMDB0000097	down
0.763_262.0008	(2e)-4-hydroxy-3-methylbut-2-en-1-yl diphos	NA	NA	down
0.768_162.1083	(s)-1-methoxy-3-heptanethiol	null	HMDB0032380	down
0.769_115.0632	L-proline	C16435	NA	down
0.92_83.0735	1-piperidine	NA	NA	up
0.957_253.1174	Penciclovir	C07417	HMDB0014444	up
0.989_109.064	3,4-diaminopyridine	NA	NA	down
10.076_335.3183	(2e,4z)-n-isobutyl-2,4-octadecadienamide	null	HMDB0031678	up
10.12_269.2716	Capsi-amide	C17515	HMDB0040940	up
10.126_577.4104	Lysopc(22:1(13z))	null	HMDB0010399	up
10.139_323.3185	1-(14-methylhexadecanoyl)pyrrolidine	null	HMDB0034373	up
2.498_208.0847	L-kynurenine	C00328	HMDB0000684	down
2.547_191.0581	5-hydroxyindoleacetate	C05635	HMDB0000763	down
2.751_148.0523	Cinnamic acid	C10438	HMDB0000930	down
2.877_383.115	Acutumidine	NA	NA	down
3.119_141.0789	Hypoglycin a	NA	NA	down
3.14_159.0895	N-acetylvaline	null	HMDB0011757	down
3.271_333.1324	Oglufanide	null	HMDB0028830	up
3.388_143.0734	6-methylquinoline	null	HMDB0033115	up
3.784_230.163	Leu-val	null	HMDB0028942	down
3.887_282.1677	Mm3670000	null	HMDB0061822	up
3.9_355.0074	2-amino-4-hydroxy-6-pyrophosphoryl-methyl	NA	NA	down
3.982_109.0892	3662332	NA	NA	down
3.982_138.068	Veratrole	NA	NA	down
3.983_110.0731	Trans,trans-2,4-heptadienal	NA	NA	down
3.983_187.1207	Pivagabine	NA	NA	down
3.984_127.0996	Lq1825000	NA	NA	down
3.987_155.0945	Arecoline	C10129	HMDB0030353	down
4.332_244.1787	Leu-leu	C11332	HMDB0028933	down
4.397_217.1313	Propionylcarnitine	C03017	HMDB0000824	down
4.5_211.1207	Isoprenaline	C07056	HMDB0015197	down
4.508_200.1524	Hmba	null	HMDB0041901	down
4.615_227.1157	Dimetofrine	NA	NA	down

4.624_431.2731	Istamycin c1	NA	NA	up
4.78_169.1101	Aceclidine	NA	NA	down
4.781_124.0888	3721	null	HMDB0031686	down
4.782_123.1048	6-[(1z)-1-propen-1-yl]-2,3,4,5-tetrahydropyridine	null	HMDB0033365	down
4.782_141.1154	8-methyl-8-azabicyclo[3.2.1]octan-3-ol	NA	NA	down
4.782_187.1207	Pivagabine	NA	NA	down
4.783_151.0996	Hydroxyamphetamine	null	HMDB0060765	down
4.783_201.1364	Capryloylglycine	null	HMDB0000832	down
4.784_152.0836	2128	null	HMDB0041326	down
4.79_231.1469	N-(tert-butoxycarbonyl)-l-leucine	NA	NA	down
4.809_475.2993	Netilmicin	null	HMDB0015090	up
4.951_243.1469	Tiglylcarnitine	null	HMDB0002366	down
5.163_185.1414	Atagabalin	NA	NA	down
5.233_153.1152	Pseudopelletierine	C10865	HMDB0034580	down
5.233_199.1207	Methyl (2r,3s)-3-hydroxy-8-methyl-8-azabicyclo[3.2.1]octan-3-ol	C12448	HMDB0006406	down
5.235_181.1102	3,4-dimethoxyphenethylamine (dmpea)	NA	NA	down
5.237_182.0918	(e)-dacarbazine	NA	NA	down
5.289_241.1312	Mfcd08277025	NA	NA	down
5.514_155.1309	To0127900	null	HMDB0031179	down
5.514_183.1259	Methyprylon	null	HMDB0015239	down
5.514_201.1364	Capryloylglycine	null	HMDB0000832	down
5.76_201.1363	Capryloylglycine	null	HMDB0000832	down
5.9_195.1259	4-(2-aminopropoxy)-3,5-dimethylphenol	null	HMDB0060954	down
5.901_167.1309	2-n-butyl-4-ethyl-5-methyloxazole	null	HMDB0037886	down
5.902_213.1363	C7-hsl	NA	NA	down
6.215_363.1891	9-[(5r)-5-ethyl-alpha-d-xylopyranosyl]-n-(3-n)-octadecane-1,3,5-triol	null	HMDB0012240	down
6.316_182.0919	(e)-dacarbazine	NA	NA	up
6.336_360.1936	Cortisone	C00762	HMDB0002802	down
6.372_308.0796	Flazin	null	HMDB0033459	up
6.546_362.2091	Cortisol	C00735	HMDB0000063	down
6.88_329.2563	O-(4,8-dimethylnonanoyl)carnitine	null	HMDB0006202	down
6.927_211.1571	Elaeokanine c	NA	NA	down
7.002_346.2143	Corticosterone	C02140	HMDB0001547	down
7.075_220.1099	Precocene ii	NA	NA	down
7.225_228.1361	Traumatic acid	C16308	HMDB0000933	up
7.226_164.1201	Fenipentol	NA	NA	up
7.414_252.136	2,3-dimethoxy-5-methyl-6-(3-methyl-2-butenyl)-2,3-dihydro-1,4-benzodioxin	null	HMDB0059661	down
7.419_234.1255	Stiripentol	NA	NA	down
7.42_230.1516	Dodecanedioic acid	C02678	HMDB0000623	up
7.508_327.2407	Cxa-10	null	HMDB0062737	down
7.661_329.2564	O-(4,8-dimethylnonanoyl)carnitine	null	HMDB0006202	down
7.76_329.2563	O-(4,8-dimethylnonanoyl)carnitine	null	HMDB0006202	down
7.871_329.2564	O-(4,8-dimethylnonanoyl)carnitine	null	HMDB0006202	down
7.977_327.2406	Cxa-10	null	HMDB0062737	down
8.182_313.2613	Palgly	null	HMDB0013034	down
8.183_208.1826	2-decylfuran	null	HMDB0032215	up
8.246_315.277	(8e)-2-amino-8-octadecene-1,3,4-triol	null	HMDB0038057	down
8.247_279.2558	Linoleamide	null	HMDB0062656	down

8.266_313.2614	Palgly	null	HMDB0013034	down
8.278_201.1362	Capryloylglycine	null	HMDB0000832	down
8.368_291.2198	Penbutolol	C07416	HMDB0015447	down
8.386_313.2614	Palgly	null	HMDB0013034	down
8.393_315.277	(8e)-2-amino-8-octadecene-1,3,4-triol	null	HMDB0038057	down
8.406_297.2666	Unii:out5yhb7bo	NA	NA	down
8.458_248.1774	3222	null	HMDB0037719	up
8.537_327.2771	N-heptadecanoylglycine	null	HMDB0013246	down
8.575_313.2613	Palgly	null	HMDB0013034	down
8.59_297.2664	Unii:out5yhb7bo	NA	NA	down
8.628_327.2772	N-heptadecanoylglycine	null	HMDB0013246	down
8.642_279.2559	Linoleamide	null	HMDB0062656	down
8.642_320.2517	3beta-fluoro-5beta-pregnan-20-one	NA	NA	down
8.643_262.2293	SI3675000	NA	NA	down
8.68_299.2823	Threo-sphingosine, (-)-	null	HMDB0000252	up
8.704_262.2292	SI3675000	NA	NA	down
8.704_279.2559	Linoleamide	null	HMDB0062656	down
8.705_300.2298	1,3-dihydroxy-2-propanyl (9z)-9-tetradecenoic acid	null	HMDB0011531	up
8.705_314.2456	Vs1150000	null	HMDB0041220	up
8.707_286.2142	1792831	C19615	HMDB0000672	up
8.734_316.261	9,10-dihydroxystearic acid	NA	NA	up
8.738_280.2398	2210856	null	HMDB0006270	up
8.739_298.2505	Ricinoleic acid	null	HMDB0034297	up
8.768_262.2293	SI3675000	NA	NA	down
8.769_335.2224	[(4z,7z,11e,13z)-1-carboxy-4,7,11,13-nonadecatrienoic acid]	null	HMDB0060099	down
8.776_423.3345	Linoleyl carnitine	null	HMDB0006469	up
8.783_279.2559	Linoleamide	null	HMDB0062656	down
8.835_297.2666	Unii:out5yhb7bo	NA	NA	down
8.852_262.2292	SI3675000	NA	NA	down
8.892_297.2666	Unii:out5yhb7bo	NA	NA	down
8.926_252.2089	(8z)-oxacycloheptadec-8-en-2-one	null	HMDB0031086	up
8.964_297.2666	Unii:out5yhb7bo	NA	NA	down
8.981_425.3502	Mfcd22416941	null	HMDB0005065	up
9_280.24	2210856	null	HMDB0006270	down
9.02_171.1257	Gabapentin	C07018	HMDB0005015	down
9.022_262.2293	SI3675000	NA	NA	down
9.022_297.2665	Unii:out5yhb7bo	NA	NA	down
9.027_155.1309	To0127900	null	HMDB0031179	down
9.027_298.2505	Ricinoleic acid	null	HMDB0034297	up
9.028_279.2558	Linoleamide	null	HMDB0062656	down
9.029_299.2822	Threo-sphingosine, (-)-	null	HMDB0000252	down
9.177_298.2505	Ricinoleic acid	null	HMDB0034297	up
9.585_479.3009	1-oleoyl-sn-glycero-3-phosphoethanolamine	null	HMDB0011506	up
9.611_299.282	Threo-sphingosine, (-)-	null	HMDB0000252	up
9.636_421.3189	(4s)-4-[(9z,12z,15z)-9,12,15-octadecatrienoyl]	null	HMDB0006319	up
9.665_547.3636	1-[(11z,14z)]-icosadienoyl-sn-glycero-3-phosphoethanolamine	null	HMDB0010392	up
9.711_302.2243	Eicosapentanoic acid	C06428	HMDB0001999	up
9.784_571.3613	Lysopc(22:4(7z,10z,13z,16z))	null	HMDB0010401	up

9.926_333.3028 (2e,4e,12z)-n-isobutyl-2,4,12-octadecatrienan null HMDB0032033 up

Differential metabolites identified in negative mode (A 0d vs A 10d):

Compound.ID	Name	KEGG.ID	HMDB.ID	label
0.629_134.0215	Dl-malic acid	C00711	NA	up
0.686_226.0689	(2xi)-d-gluco-heptonic acid	null	HMDB0240292	down
0.687_156.0188	Propanediol 1-phosphate	NA	NA	down
0.696_166.0475	D-xylonic acid	NA	NA	down
0.7_120.0422	D-(-)-threose	NA	NA	down
0.701_102.0317	2-oxobutyric acid	C00109	HMDB0000005	down
0.706_90.0317	L-(+)-lactic acid	C00186	HMDB0000190	up
0.708_162.0528	Diethylpyrocarbonate	C11592	HMDB0032873	down
0.714_129.0426	4-oxoproline	C01877	NA	up
0.726_254.0998	3-o-beta-d-galactosyl-sn-glycerol	NA	NA	up
10.066_479.301	1-oleoyl-sn-glycero-3-phosphoethanolamine	null	HMDB0011506	up
11.875_805.5826	O-[[{(2r)-2-(docosanoyloxy)-3-(pentadecanoy	null	HMDB0112334	down
3.156_217.1311	Propionylcarnitine	C03017	HMDB0000824	down
3.326_187.1206	Pivagabine	NA	NA	down
3.373_187.1206	Pivagabine	NA	NA	down
4.36_201.1364	Capryloylglycine	null	HMDB0000832	down
5.196_208.0516	Cys-ser	null	HMDB0028784	down
6.041_252.1359	2,3-dimethoxy-5-methyl-6-(3-methyl-2-buten	null	HMDB0059661	down
6.331_242.1515	5-octyl-2-oxotetrahydro-3-furancarboxylic ac	null	HMDB0030987	up
6.36_184.1097	5,5-dimethyl-4-(3-oxobutyl)dihydro-2(3h)-fu	NA	NA	down
6.586_396.17	Mocetinostat	NA	NA	down
6.586_406.1987	1-(4-hydroxy-3,5-dimethoxyphenyl)-7-(4-hyd	null	HMDB0041091	down
6.807_408.2146	Cascarillin	null	HMDB0036836	down
6.968_256.1673	4-[(2-isopropyl-5-methylcyclohexyl)oxy]-4-o	null	HMDB0036143	up
7.273_188.1411	3-hydroxydecanoic acid	NA	NA	up
7.901_359.2669	3-hydroxydodecanoylcarnitine	null	HMDB0061638	down
7.944_284.1986	(10s)-juvenile hormone iii diol	NA	NA	up
8.198_359.2669	3-hydroxydodecanoylcarnitine	null	HMDB0061638	down
8.295_286.2142	Hexadecanedioic acid	C19615	HMDB0000672	up
8.67_300.2297	(2s)-2,3-dihydroxypropyl (9z)-9-tetradecenoa	null	HMDB0011562	up
8.684_312.2299	(10e,12z)-9-hydroperoxy-10,12-octadecadien	null	HMDB0006940	up
8.812_316.2611	9,10-dihydroxystearic acid	NA	NA	up
9.036_343.272	4147610	null	HMDB0002250	down
9.204_584.2633	Bilirubin	C00486	HMDB0000054	down
9.624_458.2435	1-arachidonoyl-sn-glycerol 3-phosphate	null	HMDB0062312	up
9.645_434.2447	1-linoleyl-sn-glycerol 3-phosphate	NA	NA	up

Differential metabolites identified in positive mode (S 0d vs S 10d):

Compound.ID	Name	KEGG.ID	HMDB.ID	label
0.749_103.0997	Choline	C00114	HMDB0000097	up
5.81_188.1048	Azelaic acid	C08261	HMDB0000784	down
3.347_187.0631	Indole-3-acrylic acid	NA	NA	down
3.388_143.0734	6-methylquinoline	null	HMDB0033115	down
6.182_164.0837	4-phenylbutyric acid	NA	NA	down
5.81_202.1204	Sebacic acid	C08277	HMDB0000792	down

9.699_505.353	C-8 ceramide-1-phosphate	NA	NA	up
10.094_561.4157	N-dodecanoylsphingosine 1-phosphate	null	HMDB0010699	up
11.774_723.5199	1-(1z-hexadecenyl)-2-arachidonoyl-sn-glycer	null	HMDB0011352	up
2.372_173.1416	Imagabalin	NA	NA	down
5.808_205.1315	Panthenol	null	HMDB0004231	down
5.81_124.0888	3721	null	HMDB0031686	down
5.811_216.1361	1780537	null	HMDB0000888	down
5.814_156.115	(2e)-4-hydroxy-2-nonenal	C21642	HMDB0004362	down
6.987_333.2293	Pentoxifyverine	NA	NA	up
7.19_331.2137	Megastachine	NA	NA	up
9.56_302.2243	Eicosapentanoic acid	C06428	HMDB0001999	up
9.638_479.3373	1-(1z-hexadecenyl)-sn-glycero-3-phosphocho	null	HMDB0010407	up
9.65_437.2904	2-aminoethyl (2r)-3-[(1z)-1-hexadecen-1-ylo	null	HMDB0011152	up
9.704_481.3529	1-o-hexadecyl-lyso-sn-glycero-3-phosphocho	NA	NA	up
9.749_340.1777	3-hydroxyquinine	null	HMDB0001091	up
9.751_360.1595	2-{3-[2-(1h-imidazol-2-ylmethyl)-6-methoxy]	null	HMDB0033437	up
9.759_507.3687	Lysopc(p-18:0)	null	HMDB0013122	up
9.932_507.3687	Lysopc(p-18:0)	null	HMDB0013122	up
9.991_542.3946	Methyl 3-acetoxy-11-methoxyurs-12-en-28-o:	null	HMDB0031675	up

Differential metabolites identified in negative mode (S 0d vs S 10d):

Compound.ID	Name	KEGG.ID	HMDB.ID	label
0.629_134.0215	DL-malic acid	C00711	NA	up
1.098_181.0738	L-tyrosine	C00082	HMDB0000158	down
10.159_437.2904	2-aminoethyl (2r)-3-[(1z)-1-hexadecen-1-ylo	null	HMDB0011152	up
2.844_130.063	(hydroxyethyl)methacrylate	NA	NA	down

Differential metabolites identified in positive mode (B 0d vs B 10d):

Compound.ID	Name	KEGG.ID	HMDB.ID	label
0.552_109.0014	NA	NA	NA	down
0.607_203.9496	NA	NA	NA	down
0.609_271.9369	NA	NA	NA	down
0.611_339.9243	NA	NA	NA	down
0.611_407.9117	NA	NA	NA	down
0.774_114.0293	NA	NA	NA	up
0.846_112.0136	NA	NA	NA	down
0.957_147.0353	3-thiomorpholinecarboxylic acid	C03901	HMDB0059611	down
1.008_172.0347	NA	NA	NA	down
1.036_204.0214	NA	NA	NA	down
1.077_147.0353	3-thiomorpholinecarboxylic acid	C03901	HMDB0059611	down
1.157_153.04	NA	NA	NA	down
10.033_358.3079	1-stearoylglycerol	D01947	NA	up
10.068_406.3057	NA	NA	NA	up
10.076_335.3183	(2e,4z)-n-isobutyl-2,4-octadecadienamide	null	HMDB0031678	up
10.108_371.2855	NA	NA	NA	down
10.12_269.2716	Capsi-amide	C17515	HMDB0040940	up
10.12_326.2819	Mfcd00045988	NA	NA	up
10.139_323.3185	1-(14-methylhexadecanoyl)pyrrolidine	null	HMDB0034373	up
10.203_297.3029	Tridemorph	C11285	HMDB0031810	up

10.244_434.243	1-linoleyl-sn-glycerol 3-phosphate	NA	NA	up
10.261_311.3185	NA	NA	NA	up
10.303_337.3339	NA	NA	NA	up
10.35_434.243	1-linoleyl-sn-glycerol 3-phosphate	NA	NA	up
10.381_139.0609	NA	NA	NA	down
10.556_798.6609	NA	NA	NA	down
11.515_163.9771	NA	NA	NA	down
11.526_368.3441	NA	NA	NA	up
11.773_783.5771	1-oleoyl-2-linoleoyl-sn-glycero-3-phosphoch	null	HMDB0008105	up
12.027_733.5617	Di-dipalmitoylphosphatidylcholine	NA	NA	up
2.192_161.051	S-allyl-l-cysteine	NA	NA	down
2.246_161.0509	S-allyl-l-cysteine	NA	NA	down
3.214_175.0666	NA	NA	NA	down
3.445_175.0666	NA	NA	NA	down
3.675_312.0777	Epithienamycin b	NA	NA	down
3.798_129.1517	Octylamine	NA	NA	down
3.984_218.1629	NA	NA	NA	up
4.237_193.0739	Phenylacetylglycine	C05598	HMDB0000821	up
4.264_189.0823	Prenisteine	NA	NA	down
4.508_200.1524	Hmba	null	HMDB0041901	up
4.534_244.1786	Leu-leu	C11332	HMDB0028933	up
4.558_316.1997	NA	NA	NA	other
4.951_243.1469	Tiglylcarnitine	null	HMDB0002366	up
5.292_184.1099	5,5-dimethyl-4-(3-oxobutyl)dihydro-2(3h)-fui	NA	NA	up
5.292_224.1022	NA	NA	NA	up
5.63_203.098	NA	NA	NA	down
5.9_195.1259	4-(2-aminopropoxy)-3,5-dimethylphenol	null	HMDB0060954	up
5.902_213.1363	C7-hsl	NA	NA	up
6.138_289.1346	Chloropyramine	null	HMDB0015690	down
6.319_228.1472	Leu-pro	null	HMDB0011175	up
6.76_313.2251	9-decenoylcarnitine	null	HMDB0013205	down
6.831_215.1885	NA	NA	NA	up
6.841_269.2101	Pramiracetam	NA	NA	up
7.298_252.1335	NA	NA	NA	up
7.569_305.166	NA	NA	NA	down
7.58_295.2509	NA	NA	NA	up
7.581_335.2433	NA	NA	NA	up
7.849_277.2404	NA	NA	NA	up
7.853_335.2433	NA	NA	NA	up
8.112_134.1095	P-cymene	C06575	HMDB0005805	up
8.17_190.1721	1,4-di-tert-butylbenzene	null	HMDB0094670	up
8.175_449.1854	NA	NA	NA	down
8.176_417.159	NA	NA	NA	other
8.182_222.1982	(2e,6e)-farnesol	C06081	HMDB0004305	up
8.183_208.1826	2-decyfuran	null	HMDB0032215	up
8.202_259.1604	NA	NA	NA	down
8.381_335.2433	NA	NA	NA	up
8.421_838.5572	(2r)-1-[(hydroxy{[(2r,3r,5s,6r)-2,3,4,5,6-pent	null	HMDB0062582	up

8.423_390.2767	Bis(2-ethylhexyl) phthalate	NA	NA	up
8.425_816.5743	Cholate	C00695	HMDB0000619	up
8.495_333.2281	NA	NA	NA	up
8.6_253.2403	NA	NA	NA	up
8.607_277.2404	NA	NA	NA	up
8.641_319.2485	NA	NA	NA	up
8.642_279.2559	Linoleamide	null	HMDB0062656	up
8.642_320.2517	3beta-fluoro-5beta-pregnan-20-one	NA	NA	up
8.643_262.2293	SI3675000	NA	NA	up
8.643_280.2595	NA	NA	NA	up
8.644_616.5152	NA	NA	NA	up
8.646_381.2188	NA	NA	NA	up
8.646_594.5331	NA	NA	NA	up
8.776_423.3345	Linoleyl carnitine	null	HMDB0006469	down
8.783_279.2559	Linoleamide	null	HMDB0062656	up
8.839_377.2329	NA	NA	NA	down
8.893_110.1095	1733342	null	HMDB0061902	up
8.903_292.1674	Gingerdione	C10459	HMDB0039275	up
8.923_338.2608	3-(2,4-cyclopentadien-1-ylidene)-5alpha-andr	NA	NA	up
8.981_425.3502	Mfcd22416941	null	HMDB0005065	down
9.022_297.2665	Unii:out5yhb7bo	NA	NA	up
9.024_616.5152	NA	NA	NA	up
9.025_397.1913	NA	NA	NA	up
9.034_319.2485	NA	NA	NA	up
9.065_357.3604	NA	NA	NA	down
9.158_342.2769	NA	NA	NA	up
9.235_227.2248	NA	NA	NA	up
9.323_369.2878	Cis-5-tetradecenoylcarnitine	null	HMDB0002014	up
9.381_302.2454	Rac-glycerol 1-myristate	NA	NA	up
9.381_402.1703	NA	NA	NA	up
9.382_352.2611	Glyceryl 2-linolenate	null	HMDB0011540	up
9.476_301.2378	NA	NA	NA	up
9.479_244.219	NA	NA	NA	up
9.479_279.2559	Linoleamide	null	HMDB0062656	up
9.48_262.2293	SI3675000	NA	NA	up
9.636_227.2247	NA	NA	NA	up
9.643_255.2559	Hexadecanamide	NA	NA	up
9.644_532.4942	NA	NA	NA	up
9.677_330.2765	1728235	NA	NA	up
9.697_402.2742	NA	NA	NA	up
9.699_380.2924	Persin	null	HMDB0041103	up
9.711_302.2243	Eicosapentanoic acid	C06428	HMDB0001999	down
9.715_281.2714	Oleamide	C19670	HMDB0002117	up
9.715_287.2798	NA	NA	NA	up
9.715_584.5253	NA	NA	NA	up
9.716_246.2345	Estrane	NA	NA	up
9.716_368.3399	NA	NA	NA	other
9.716_568.5515	NA	NA	NA	up

9.78_343.2541	NA	NA	NA	down
9.793_264.245	2-[(5z)-5-tetradecen-1-yl]cyclobutanone	null	HMDB0037543	up
9.793_424.3911	NA	NA	NA	down
9.826_347.2821	Anandamide	C11695	HMDB0004080	up
9.887_224.1775	2639	null	HMDB0030427	down
9.892_360.1748	NA	NA	NA	up
9.896_242.188	3-oxotetradecanoic acid	null	HMDB0010730	down
9.962_283.2871	Amide c18	C13846	HMDB0034146	up

Differential metabolites identified in negative mode (B 0d vs B10d):

Compound.ID	Name	KEGG.ID	HMDB.ID	label
0.686_202.0452	NA	NA	NA	down
0.687_149.9872	NA	NA	NA	down
0.687_156.0188	Propanediol 1-phosphate	NA	NA	up
0.719_226.0063	NA	NA	NA	down
0.727_293.9937	NA	NA	NA	down
0.737_147.9903	NA	NA	NA	down
10.204_330.2557	Ethyl eicosapentaenoic acid	C16184	HMDB0039530	up
10.238_306.2557	8z,11z,14z-eicosatrienoic acid	C03242	HMDB0002925	up
2.562_165.0789	L-phenylalanine	C02057	NA	up
3.156_217.1311	Propionylcarnitine	C03017	HMDB0000824	up
3.373_187.1206	Pivagabine	NA	NA	up
6.682_243.1833	N-undecanoylglycine	null	HMDB0013286	up
7.513_202.1568	1,3-nonanediol acetate	null	HMDB0032443	up
7.901_359.2669	3-hydroxydodecanoylcarnitine	null	HMDB0061638	up
7.903_349.2382	NA	NA	NA	up
8.199_349.2384	NA	NA	NA	up
8.426_408.2874	Cholic acid	C00695	HMDB0000619	up
8.953_438.298	NA	NA	NA	up
9.036_343.272	4147610	null	HMDB0002250	up
9.041_333.2433	NA	NA	NA	up
9.172_333.2433	NA	NA	NA	up
9.407_432.2273	1-(gamma-linolenoyl)-sn-glycero-3-phosphate	null	HMDB0062316	up
9.624_458.2435	1-arachidonoyl-sn-glycerol 3-phosphate	null	HMDB0062312	up
9.645_434.2447	1-linoleyl-sn-glycerol 3-phosphate	NA	NA	up
9.646_435.2475	NA	NA	NA	up
9.818_410.2433	1-palmitoyl lysophosphatidic acid	C04036	HMDB0007853	up

Table S4**Table S4** Detailed information about the differentially expressed proteins between groups**Differential proteins (N 0d vs A 0d):**

Protein_ID	label
sp P55058 PLTP_HUMAN	up
sp P05546 HEP2_HUMAN	up
sp P04278 SHBG_HUMAN	up
sp Q96PD5 PGRP2_HUMAN	up
sp O75636 FCN3_HUMAN	up
sp P08519 APOA_HUMAN	up
sp O14791 APOL1_HUMAN	up
sp P02776 PLF4_HUMAN	down
sp P07996 TSP1_HUMAN	down
sp Q9H7E2 TDRD3_HUMAN	down
sp P02775 CXCL7_HUMAN	down

Differential proteins (N 0d vs S 0d):

Protein_ID	label
sp Q15166 PON3_HUMAN	up
sp P62937 PPIA_HUMAN	up
sp O00203 AP3B1_HUMAN	up
sp P07996 TSP1_HUMAN	down
sp Q03591 FHR1_HUMAN	down
sp P26038 MOES_HUMAN	down
sp P55056 APOC4_HUMAN	down
sp P60709 ACTB_HUMAN	down
sp P12814 ACTN1_HUMAN	down
sp P04406 G3P_HUMAN	down

Differential proteins (N 0d vs B 0d):

Protein_ID	label
sp P18428 LBP_HUMAN	up
sp Q14520 HABP2_HUMAN	up
sp Q15166 PON3_HUMAN	up
sp Q9UNW1 MINP1_HUMAN	up
sp Q8WUA8 TSK_HUMAN	up
sp P05109 S10A8_HUMAN	up
sp P03950 ANGI_HUMAN	up
sp P13497 BMP1_HUMAN	up
sp P26927 HGFL_HUMAN	up
sp P09871 C1S_HUMAN	up
sp P00736 C1R_HUMAN	up
sp P02656 APOC3_HUMAN	up
sp P61626 LYSC_HUMAN	up
sp Q6Q788 APOA5_HUMAN	up
sp P22352 GPX3_HUMAN	up
sp P00748 FA12_HUMAN	up
sp P02745 C1QA_HUMAN	up

sp Q86UX7 URP2_HUMAN	up
sp P04406 G3P_HUMAN	up
sp P02655 APOC2_HUMAN	up
sp Q9BXR6 FHR5_HUMAN	up
sp P55774 CCL18_HUMAN	up
sp P23528 COF1_HUMAN	up
sp P06702 S10A9_HUMAN	up
sp Q99969 RARR2_HUMAN	up
sp O14791 APOL1_HUMAN	up
sp P01876 IGHA1_HUMAN	down
sp P00738 HPT_HUMAN	down
sp P69905 HBA_HUMAN	down
sp P20742 PZP_HUMAN	down
sp P05543 THBG_HUMAN	down
sp P02753 RET4_HUMAN	down
sp P01011 AACT_HUMAN	down
sp P0DOX2 IGA2_HUMAN	down
sp P19827 ITIH1_HUMAN	down
sp P51884 LUM_HUMAN	down
sp P01859 IGHG2_HUMAN	down
sp P05156 CFAI_HUMAN	down

Differential proteins (A 0d vs A 10d):

Protein_ID	label
sp P02776 PLF4_HUMAN	up
sp P08567 PLEK_HUMAN	up
sp P05109 S10A8_HUMAN	up
sp P04264 K2C1_HUMAN	up
sp Q93079 H2B1H_HUMAN	up
sp Q8WWA0 ITLN1_HUMAN	up
sp Q9H7E2 TDRD3_HUMAN	up
sp Q92743 HTRA1_HUMAN	up
sp P02745 C1QA_HUMAN	up
sp P04406 G3P_HUMAN	up
sp P06702 S10A9_HUMAN	up
sp Q96KK5 H2A1H_HUMAN	up
sp P05543 THBG_HUMAN	down
sp P02652 APOA2_HUMAN	down

Differential proteins (S 0d vs S 10d):

Protein_ID	label
sp P02751 FINC_HUMAN	up
sp P55056 APOC4_HUMAN	up
sp P04278 SHBG_HUMAN	down
sp P05154 IPSP_HUMAN	down
sp O00203 AP3B1_HUMAN	down

Differential proteins (B 0d vs B 10d):

Protein_ID	label
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sp P02788 TRFL_HUMAN	down
sp P05109 S10A8_HUMAN	down
sp O95372 LYPA2_HUMAN	down
sp P05160 F13B_HUMAN	down
sp Q9NZP8 C1RL_HUMAN	down
sp P60709 ACTB_HUMAN	down
sp P80108 PHLD_HUMAN	down
sp P20160 CAP7_HUMAN	down
sp P00748 FA12_HUMAN	down
sp Q15404 RSU1_HUMAN	down
sp Q86UX7 URP2_HUMAN	down
sp Q96PD5 PGRP2_HUMAN	down
sp O94769 ECM2_HUMAN	down
sp P05164 PERM_HUMAN	down
sp P23528 COF1_HUMAN	down
sp Q5T013 HYI_HUMAN	down
sp P06702 S10A9_HUMAN	down
sp P33908 MA1A1_HUMAN	up
sp P04114 APOB_HUMAN	up

Table S5

Table S5 Migraine related targets collected from databases

Overview of migraine related targets collected from databases

Database	Key words	Number of Related targets
DrugBank	Migraine	84
TTD	Migraine	36
OMIM	Migraine	48
DisGeNET	Migraine disorders	81
Total		195

Note:

Therapeutic Target Database (TTD), Online Mendelian Inheritance in Man (OMIM).

Targets collected from DrugBank database (84):	Targets collected from TTD database (36):	Targets collected from OMIM database (48):	Targets collected from ODisGeNET database (81):
P35354	P80511	O00555	Q7Z2W7
P23219	P28221	P50993	Q9UM47
Q04828	Q8NER1	P48730	Q07954
P30542	P41143	P01258	Q9HAZ2
P29274	P28222	P06881	P37173
P29275	Q16602	P03372	Q5TD97
P0DMS8	P23219	P35498	Q9HAC7
Q01064	P35354	P25101	P03372
Q08499	P41586	P42898	P01258
Q13370	P08588	P31645	P06881
O76074	O95180	Q7Z418	P50993
P06881	O00555	P54098	P02462
P10092	P08908	P11166	P28223
Q16602	Q14524	P01375	Q9UN88
P28221	Q00975	P09172	P34969
P28222	P27338	P02462	O00555
P28223	P41595	P19838	Q8IWA4
P35348	P48167	P03915	Q7Z6L0
P35368	O75311	Q9UM47	Q14814
P25100	P23415	P06213	P08908
P23975	P23416	Q96QP1	P43003
P31645	P25103	Q7Z6L0	P01137
O43497	Q14416	P35228	O60313
O95180	Q9Y271	P12821	P54098
Q9P0X4	P28223	P09619	P00403
P0DP23	P10635	P30939	P22301
Q05940	P06881	P00846	P48730
P41595	P10092	P43003	P18507
P28335	P30939	P53985	Q96RR1
P08908	P35408	P08908	O75129
P34969	P29475	Q92889	Q9C0D0
P14867	P35372	P28222	P42336
P35498	P28335	P28221	Q8WWQ2
Q9Y5Y9	P14416	P28223	Q9NSU2

Q9UI33	P31645	P46098	Q9NS39
Q99250	P23975	P05026	O14786
Q9NY46		P00558	B7ZAP0
P35499		P03897	Q5R372
Q14524		P03905	Q9HC58
Q01118		Q04837	Q9GZQ4
Q9UQD0		O96011	O00401
Q15858		Q15738	Q13976
P39086		Q13586	Q9GZL7
Q13002		Q13733	Q9P2E8
Q13003		Q86YV9	Q63HN8
Q16099		Q96RD7	O95279
Q16478		O95140	Q9UIG0
P00918		Q4G176	Q8NCD3
P22748			P29474
Q13936			Q9P212
Q01668			Q9BZE1
O60840			Q9H8M5
Q13698			Q8N187
Q02641			Q15777
Q08289			Q96SD1
P54284			P31645
O00305			P01375
PTGS2			P35498
P14416			Q9H5I1
P21728			P80511
P21918			Q7Z5K2
P35462			P35556
Q9UKV0			Q8IW00
P21917			P14416
P30939			Q96PU5
P08588			O95214
P60880			Q9ULU4
Q8NER1			P12821
P07550			P09172
P56181			Q8IUQ0
P31040			Q9UEE9
Q06432			P46937
P14555			Q9Y6F6
P11229			Q96CS2
Q13639			P21964
P46098			P18509
P41594			P42898
Q9UBS5			Q9ULZ9
O00555			Q7Z418
Q05586			P28222
P49841			Q14642
P29218			
O14732			
P42263			

Table S6**Table S6** Detailed information about the protein-metabolite interaction network

Node1	Node2
P41143	Q5JY77
P41143	P27824
P41143	P16615
P41143	Q96Q45-2
P28222	P22392
P28222	P35609
P28222	P59768
P28222	P09471-1
P28222	P62873-1
Q16602	O60895
P41586	P0DP25
P08588	Q86UL8
P08588	Q96QZ7
P08588	Q5TCQ9
P08588	P49407
P08588	P32121
O00555	Q9BZC7
O00555	O43681
O00555	Q96CW1
O00555	Q86SJ2
O00555	P04075
O00555	Q5XG79
O00555	Q96I11
O00555	O95153
O00555	Q9HCP6
O00555	P28799
O00555	Q92551
O00555	Q8TAS6
O00555	O75095
O00555	O00339
O00555	Q9NQG1
O00555	B9EG76
O00555	B7ZLY3
O00555	A8MQ03
O00555	P29122
O00555	O15034
O00555	P41222
O00555	Q9UHX1
O00555	P04275
O00555	P26640
O00555	Q9BVA1
O00555	Q9NP64
O00555	O00468
O00555	O75953
P08908	P11362
P08908	P28222
Q14524	O14744
Q14524	Q13424
Q14524	P0DP25
Q00975	P28702
P27338	Q96SB4
P27338	Q5RI15

P41595	O75970
P41595	Q9BUM1
P41595	Q8WUD6
P41595	O60238
P41595	Q12983
P41595	P05026
P41595	Q99758
P41595	P54368
P41595	O14929
P41595	Q9Y342
P41595	Q8N8Q9
P41595	Q6ZSY5
P41595	Q9UJH8
P41595	P43243
P41595	Q2TAC6
P41595	Q8WUY8
P41595	Q8N609
P41595	Q8IWA5
P41595	P57057
P41595	O15432
P41595	P04181
P23415	O60504
P23416	P50395
P25103	P20366-PRO_0000033530
Q14416	Q9UMX0-2
Q14416	Q58DX5
Q14416	Q9NR31
Q14416	Q13113
Q14416	P00387
Q14416	Q8N3G9
Q14416	Q96Q45-2
Q14416	Q9H2H9
Q14416	Q13323
Q14416	P28223-1
Q9Y271	Q9NS75
P06881	Q16602
P10092	Q99828
P35408	O43707
P35408	P78560
P35408	P62191
P35408	P49790
P35408	Q9BY42
P35408	Q5VTB9
P35408	Q12981
P35408	Q96HD9
P35408	Q9UJX3
P35408	P50502
P35408	Q14493
P35408	Q7KZF4
P35408	Q6NVV7
P35408	Q49AN0
P35408	Q92782
P35408	Q5T442
P35408	Q03001
P35408	P30519
P35408	Q07866

P35408	P09601
P35408	Q9Y5Y2
P35408	O00151
P35408	O75439
P35408	P10451
P35408	Q9Y2Z0
P35408	Q12931
P35408	Q9NX61
P35408	Q9Y3M9
P29475	Q07065
P35372	P21333
P35372	Q5T9L3
P35372	Q96S59
P35372	Q9P104
P35372	Q8IUQ4
P35372	Q92905
P35372	O43255
P35372	Q9H3M0
P35372	Q9P0L0
P35372	O60243
P35372	Q96H72
P35372	Q8IVB4
P35372	Q9H3P2
P35372	O14810
P35372	Q96DX8
P28335	Q9BVK8
P28335	Q9NUM3
P28335	Q16720
P28335	Q16585
P28335	Q9H3K2
P28335	Q8WVX3
P28335	Q96MC6
P28335	Q12767
P28335	O15354
P28335	Q9NY26
P28335	Q99805
P28335	P60174
P28335	Q9NQC3
P28335	Q9NUP9
P28335	Q12959
P14416	P14416
P23975	Q9NRD5
Q9UM47	P23142
Q9UM47	P67870
Q9UM47	Q9UM47
Q07954	P11226
Q07954	O00213
Q07954	Q9UM47
Q07954	P30533
Q07954	P78352
P37173	Q9UER7
P37173	P01137
P37173	P16234
P37173	Q8IX30
P37173	Q9BU70
P37173	Q00597

P37173	Q02750
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17884	16027
15354	16240
32816	16240
17368	16240
27823	16240
17712	16240
18183	16240
18072	16240
144308	16240
28281	16240
16827	15379

15354	15379
17351	15379
32816	15379
16990	15379
422	15379
C00735	15379
17368	15379
30831	15379
27823	15379
16946	15379
1438	15379
17712	15379
18072	15379
15724	15379
17278	15379
17203	15379
144308	15379
9349	15379
28281	15379
32816	17148
15354	16610
15354	17053
32816	17053
17368	17053
17596	17053
15354	28009
17351	28009
32816	28009
28364	28009
18183	28009
32816	30763
32816	C00390
16990	16359
15354	15756
17351	15756
32816	15756
28364	15756
28867	15756
32816	17659
16990	17659
32816	20506
1438	20506
16827	44409
32816	44409
16990	44409
422	44409
C00735	44409
30831	44409
16946	44409
16962	44409
17712	44409
15724	44409
17278	44409
17203	44409
9349	44409
27823	59560

16713	59560
27823	C01017
32816	16526
422	16526
30831	16526
16347	16526
17712	16526
18072	16526
15724	16526
17203	16526
32816	16015
422	16015
30831	16015
17596	16015
27823	16015
18183	16015
17203	16015
16827	28790
15354	28790
C00735	28790
27823	28790
144308	28790
27823	15765
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32816	17295
17203	17295
32816	16828
16946	16828
16827	18243
15354	18243
C00735	18243
27823	18243
144308	18243
17368	18265
27823	18265
16713	18265
32816	16069
18183	16069
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32816	18050
17203	18050
17884	18050
17368	17345
17596	17345
17712	17345
32816	15996
422	15996
17368	15996
30831	15996
17596	15996
16990	28870
16814	28870
16827	27974
C00735	27974
16814	27974
16962	27974

16827	17252
C00735	17252
16814	17252
16962	17252
32816	16708
17368	16708
17596	16708
17712	16708
32816	37525
17368	47013
17596	47013
17712	47013
32816	16857
30831	16857
17203	16857
32816	C00159
C00735	16827
16814	16827
16962	16827
16827	17347
C00735	17347
16814	17347
16962	17347
18183	17347
16827	16422
C00735	16422
16814	16422
16962	16422
16827	28087
C00735	28087
32816	17814
32816	C00031
32816	17992
32816	18405
30831	18405
16946	18405
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32816	18283
16990	17200
32816	17719
32816	4170
17351	4167
32816	4167
28364	4167
18183	4167
18183	17925
17368	16750
17596	16750
17712	16750
32816	16551
15354	18420
32816	18420
422	18420
17368	18420
30831	18420
17596	18420

17712	18420
18183	18420
17203	18420
32816	17552
422	17552
17368	17552
17596	17552
15354	17431
32816	17431
32816	15978
15354	10642
17368	17258
17712	17258
15724	16199
17203	16199
32816	62064
422	62064
32816	16891
30831	16891
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32816	18132
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16827	17489
32816	17489
C00735	17489
16814	41321
32816	40356
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32816	48950
32816	18051
32816	16467
17203	16467
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28364	15843
116314	Neotrehalose
16827	16236
32816	16236
27823	16236
18183	16236
15354	16436
15354	15710
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15354	17351
28364	17351
15354	17115
32816	17115
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17203	17115
17203	17877
C00735	15551
32816	18335
16946	18335
32816	15741

30831	15741
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30831	15380
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32816	30768
422	30768
30831	30768
32816	17561
30831	17561
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17203	17561
32816	16977
17203	16977
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32816	17677
30831	17677
32816	16108
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32816	17333
32816	16905
30831	16905
32816	C00661
32816	17158
422	17158
32816	30753
17203	17672
32816	16543
32816	15729
17203	15729
15354	16680
32816	16680
17596	16680
144308	16680
15354	17361
32816	61001
15354	32816
422	32816
30831	32816
17203	32816
32816	32398
32816	17835
15354	15746
32816	C00083
17203	C00083
17351	28364
15354	16196
17351	16196
28364	16196
116314	16196
17368	16040
17596	16040
17368	16335
17596	16335
15354	17754
17351	17754

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16946	17754
18183	17754
17203	17754
32816	33198
15354	15343
32816	15343
17712	15343
32816	16000
28867	30860
15354	27470
32816	15713
30831	15713
32816	17924
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16827	17688
15354	17688
15354	29101
32816	29101
422	29101
17368	29101
17596	29101
16347	29101
17712	29101
18183	29101
15724	29101
17203	29101
32816	15641
1438	15641
15354	17588
32816	17588
30831	17588
32816	17553
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17596	C00117
17712	C00117
15354	15351
32816	15351
16347	15351
32816	15784
32816	42111
422	42111
30831	42111
17203	42111
17351	27432
28364	27432
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32816	C01475
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30831	18019
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32816	17960
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17368	16235
17596	16235
17712	16235
17712	28946
17712	18107
17712	48991
32816	15999
32816	16265
15354	16865
32816	16865
32816	15429
32816	33404
32816	17621
9349	17621
16990	16704
17368	16704
17596	16704
32816	30852
16814	17985
17368	17568
17596	17568
32816	16813
17351	27667
32816	27667
18183	27667
18183	28061
17368	17562
17596	17562
32816	36219
15354	16742
32816	15966
18183	15966
17203	15966
32816	422
17203	422
32816	18385
32816	15350
32816	16493
32816	16016
32816	17151
32816	5445
32816	17497 29805
32816	30841
32816	16410
32816	15570
30831	15570
32816	C00146
16990	C00146
18183	C00146
28364	28875

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28364	30805
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32816	16842
16990	16842
1438	16842
17712	16842
9349	16842
32816	16583
32816	16136
30831	16136
32816	37788
16827	18357
15354	18357
C00735	18357
27823	18357
144308	18357
28364	53487
51209	8093
15354	18295
32816	17420
32816	17614
32816	17482
30831	17482
32816	16643
30831	16643
17203	16643
27823	545959
16827	C00735
16814	C00735
16962	C00735
15354	16737
C00735	16737
17368	27891
17368	17775
17712	17775
18072	17775
17596	17368
17712	17368
32816	16039
30831	16039
17368	Neotrehalose
17351	17590
34154	17590
18183	17590
28364	53486
28364	28661
32816	17111
17368	17111
17596	17111
17712	17111
32816	62165
17278	16466
32816	17245
16990	17245
1438	17245

18183	17245
32816	18041
422	18041
18183	17515
32816	17905
15354	17015
32816	30769
30831	30769
18183	30769
17203	30769
17368	16300
17596	16300
17712	16300
17203	15971
16814	17263
16990	10319
15354	17750
16347	17750
17368	17748
17596	17748
32816	16914
16990	16914
32816	30923
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32816	16256
32816	27821
32816	16530
32816	17191
30831	17191
17203	17191
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32816	30797
422	30797
32816	15466
30831	15466
32816	30831
32816	30796
32816	16275
17884	30745
32816	16142
32816	31116
32816	17597
32816	17694
32816	17460
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32816	17051
32816	15873
32816	16084
32816	16375
17368	17596
17712	17596
32816	47977
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16827	16796
C00735	16796
27823	16796

32816	15792 30794
16827	16814
C00735	16814
17203	15887
32816	16958
15354	21547
15354	6801
16814	6801
32816	16523
30831	16523
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16827	16469
C00735	16469
16814	16469
16827	17026
C00735	17026
16814	17026
16962	17026
16827	28750
C00735	28750
16814	28750
16827	16330
C00735	16330
16814	16330
18183	17898
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32816	16208
422	15698
17596	15698
32816	17310
30831	17310
16827	28918
15354	28918
C00735	28918
27823	28918
144308	28918
15354	16919
17368	17202
17596	17202
17712	17202
17203	16349
32816	30754
16946	30754
16827	16973
C00735	16973
16814	16973
16962	16973
32816	57925
16990	57925
422	57925
18183	57925
17351	Neotrehalose
32816	17859
17712	15676
15354	42820

9349	17437
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15724	18139
15354	16830
32816	30816
30831	16007
1438	16007
27823	Neotrehalose
32816	16995
18183	4047
18183	2877
32816	30772
422	30772
16990	4903
C00735	4903
32816	17123
30831	17123
C00735	18258
32816	15811
17203	16313
32816	15636
32816	28718
30831	28718
17712	25858
16946	15793
18183	17620
16827	16962
C00735	16962
32816	17997
32816	16320
32816	15603
30831	15603
17203	15603
32816	16414
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17203	16414
32816	17626
30831	17626
16946	17380
15354	15611
17203	15611
15724	6359
32816	C00555
17368	17821
17596	17821
17368	17712
17596	17712
18072	17712
17368	17256
17596	17256
17596	17172
17712	17172
17368	28542
17596	28542
17368	28997
17596	28997

15354	17724
32816	16002
17203	18123
32816	17028
32816	15925
17368	38635
30831	15699
32816	15961
30831	15961
32816	16319
32816	16717
32816	16878
15354	C00193
32816	C00193
17712	18072
16990	Neotrehalose
15354	15724
32816	16600
17368	28664
17596	16192
17368	52617
16946	18377
16814	17474
16990	9907
27823	846276
144308	742324
15354	3699
32816	15621
17278	16496
15354	17203
32816	17203
422	17203
32816	27978
27823	18397
144308	18397
17596	Neotrehalose
144308	15760
32816	84387
16990	29026
17203	Neotrehalose
17203	35280
C00735	732
C00735	18332
15354	16424
32816	16424
17368	28262
18183	28262
9349	28262
28281	2089
C00735	C14594
32816	16982
32816	16992
32816	16001
C00735	144365
144308	144365
C00735	5132

16814	5132
144308	C05583
32816	28803
32816	17232
17203	17232
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17884	15537
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32816	27512
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32816	27681
30831	27681
17596	17713
17368	15919
17596	28806
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17203	17196
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32816	16871
32816	18409
30831	18409
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30831	15684
32816	48052
32816	864
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C00735	16485
32816	28339
17368	16607
32816	15694
30831	28797
18183	28797
32816	28116
16347	Neotrehalose
32816	30882
18183	Neotrehalose
17368	15652
17596	15652
17712	15652
32816	15528
15354	Neotrehalose
17203	17798
32816	16807
16962	18093
422	15732
P28335	16827
P19838	16827
P22748	16827
P35354	16827
P11229	16827
P46098	16827
P09172	16827

P21964	16827
P08908	16827
P28222	16827
P11229	15354
P28222	15354
P35354	17351
P23219	17351
P14555	17351
P04264	17351
Q8NER1	17351
P53985	32816
O95140	28364
P25101	28364
P35354	28364
P23219	28364
Q8NER1	28364
Q96RR1	422
P53985	422
P11166	C00735
P29474	C00735
P01258	C00735
P35354	C00735
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P12821	C00735
P08908	C00735
Q9HC58	C00735
O95140	17368
P04406	17368
P00558	17368
P28335	17596
P27338	27823
P31645	27823
P46098	27823
P09172	27823
P21964	27823
P08908	27823
P28222	27823
P10635	51209
P07550	51209
P08588	51209
P31645	51209
P23975	51209
P35348	51209
P39086	16946
P41143	16962
P29275	17712
P27338	144308
P21964	144308
P35354	9349
P27338	28281

Table S7**Table S7** Detailed information about the enriched pathways in acupuncture group

Pathways	Hits	Raw p	FDR	Impact	Matched_features
Steroid hormone biosynthesis	5	0.001089	0.18018	0.079812	cpd:C00735; cpd:C00762; cpd:C13713; cpd:C04555; cpd:C02140
Bile secretion	5	0.007142	0.28528	0	cpd:C00486; cpd:C04555; cpd:C00318; cpd:C00735; cpd:C00114
Linoleic acid metabolism	4	0.000173	0.057257	0.31707	cpd:C14827; cpd:C00157; cpd:C01595; cpd:C14762
Cysteine and methionine metabolism	4	0.002225	0.24553	0.1165	cpd:C08276; cpd:C03145; cpd:C00109; cpd:C00022
Glycerophospholipid metabolism	4	0.006177	0.28528	0.1619	cpd:C04230; cpd:C00114; cpd:C00157; cpd:C01210
Purine metabolism	4	0.024754	0.39689	0.084158	cpd:C11821; cpd:C00294; cpd:C00262; cpd:C00385
Cholesterol metabolism	3	0.003192	0.26416	0	hsa:4018; hsa:336; hsa:5360
Phenylalanine metabolism	3	0.006433	0.28528	0	cpd:C00022; cpd:C04148; cpd:C02765
PPAR signaling pathway	3	0.0074	0.28528	0.084746	hsa:336; hsa:5360; cpd:C14762
Glycine, serine and threonine metabolism	3	0.009877	0.32693	0.035294	cpd:C00114; cpd:C00109; cpd:C00022
Glycolysis or Gluconeogenesis	3	0.012783	0.38466	0.21538	hsa:2597; cpd:C00186; cpd:C00022
Central carbon metabolism in cancer	3	0.015348	0.39079	0	cpd:C00022; cpd:C00186; cpd:C00148
Choline metabolism in cancer	3	0.01653	0.39082	0	cpd:C00114; cpd:C00157; cpd:C04230
HIF-1 signaling pathway	3	0.023191	0.39689	0.036585	cpd:C00022; cpd:C00186; hsa:2597
Tryptophan metabolism	3	0.023191	0.39689	0.064	cpd:C00328; cpd:C05635; cpd:C05660
Arginine and proline metabolism	3	0.02518	0.39689	0.051282	cpd:C00022; cpd:C01877; cpd:C00148
Systemic lupus erythematosus	3	0.029427	0.44274	0.057692	hsa:712; hsa:85235; hsa:8345
ABC transporters	3	0.061431	0.70555	0	cpd:C00148; cpd:C00114; cpd:C00294
Valine, leucine and isoleucine biosynthesis	2	0.007757	0.28528	0.038462	cpd:C00022; cpd:C00109
Prion diseases	2	0.015008	0.39079	0	hsa:712; cpd:C02140
Sulfur metabolism	2	0.018977	0.39689	0	cpd:C11142; cpd:C08276
African trypanosomiasis	2	0.020676	0.39689	0	hsa:8542; cpd:C00328
Aldosterone-regulated sodium reabsorption	2	0.020676	0.39689	0.10714	cpd:C00735; cpd:C00762
Terpenoid backbone biosynthesis	2	0.043113	0.61769	0	cpd:C06081; cpd:C00022
alpha-Linolenic acid metabolism	2	0.045462	0.61769	0.038462	cpd:C00157; cpd:C16308
Pyruvate metabolism	2	0.046654	0.61769	0.22642	cpd:C00186; cpd:C00022
Biosynthesis of unsaturated fatty acids	2	0.057883	0.70555	0.015152	cpd:C01595; cpd:C06428
Complement and coagulation cascades	2	0.059183	0.70555	0.059701	hsa:3053; hsa:712
Propanoate metabolism	2	0.061815	0.70555	0.041667	cpd:C00109; cpd:C00186
IL-17 signaling pathway	2	0.078404	0.86506	0	hsa:6279; hsa:6280
Viral protein interaction with cytokine and cytokin	2	0.087168	0.93073	0.013158	hsa:5473; hsa:5196
Prostate cancer	2	0.099284	1	0.032258	cpd:C00735; cpd:C00762
Tyrosine metabolism	2	0.10867	1	0.024194	cpd:C00022; cpd:C05589

Glucagon signaling pathway	2	0.13809	1	0	cpd:C00022; cpd:C00186
Arachidonic acid metabolism	2	0.14826	1	0.042017	cpd:C14770; cpd:C00157
Serotonergic synapse	2	0.18138	1	0	cpd:C05635; cpd:C14770
Necroptosis	2	0.20826	1	0.021277	cpd:C00319; hsa:85235
Chemokine signaling pathway	2	0.24835	1	0.015625	hsa:5196; hsa:5473
Alcoholism	2	0.24835	1	0.02	hsa:85235; hsa:8345
Cytokine-cytokine receptor interaction	2	0.42796	1	0.006928	hsa:5196; hsa:5473
Pathways in cancer	2	0.77284	1	0.003086	cpd:C00735; cpd:C00762
Caffeine metabolism	1	0.12517	1	0	cpd:C00385
Taurine and hypotaurine metabolism	1	0.15082	1	0	cpd:C00022
Bladder cancer	1	0.18387	1	0	hsa:7057
Thiamine metabolism	1	0.20783	1	0	cpd:C00022
Pantothenate and CoA biosynthesis	1	0.20783	1	0	cpd:C00022
Citrate cycle (TCA cycle)	1	0.21955	1	0.045455	cpd:C00022
Type II diabetes mellitus	1	0.22727	1	0.032258	cpd:C00022
Malaria	1	0.23491	1	0	hsa:7057
Phosphonate and phosphinate metabolism	1	0.2684	1	0	cpd:C00022
Primary bile acid biosynthesis	1	0.27203	1	0.020833	cpd:C05446
Alanine, aspartate and glutamate metabolism	1	0.27203	1	0.04918	cpd:C00022
Pentose phosphate pathway	1	0.27564	1	0	cpd:C00022
Regulation of lipolysis in adipocytes	1	0.28992	1	0.016667	cpd:C02140
Butanoate metabolism	1	0.29344	1	0	cpd:C00022
p53 signaling pathway	1	0.30044	1	0.015152	hsa:7057
Sphingolipid metabolism	1	0.30044	1	0.098361	cpd:C00319
Ovarian steroidogenesis	1	0.30392	1	0	cpd:C14770
Ascorbate and aldarate metabolism	1	0.31424	1	0	cpd:C00022
Cortisol synthesis and secretion	1	0.31764	1	0	cpd:C00735
Galactose metabolism	1	0.31764	1	0.028169	cpd:C05401
Pertussis	1	0.34757	1	0.044118	hsa:712
Fructose and mannose metabolism	1	0.35081	1	0	cpd:C00186
Mineral absorption	1	0.35081	1	0	cpd:C00148
N-Glycan biosynthesis	1	0.35404	1	0.012658	cpd:C06081
Pentose and glucuronate interconversions	1	0.35725	1	0	cpd:C00022
ECM-receptor interaction	1	0.35725	1	0.0625	hsa:7057
Nicotinate and nicotinamide metabolism	1	0.3668	1	0	cpd:C00022
Glyoxylate and dicarboxylate metabolism	1	0.3668	1	0.022727	cpd:C00022
TGF-beta signaling pathway	1	0.37308	1	0.0125	hsa:7057

Glutathione metabolism	1	0.37308	1	0.043478	cpd:C01879
Thyroid hormone synthesis	1	0.3762	1	0	hsa:6906
Insulin secretion	1	0.38547	1	0	cpd:C00022
Staphylococcus aureus infection	1	0.38547	1	0.046512	hsa:712
Glycerolipid metabolism	1	0.38853	1	0	cpd:C05401
Chagas disease (American trypanosomiasis)	1	0.41539	1	0.013699	hsa:712
Aminoacyl-tRNA biosynthesis	1	0.44389	1	0.010309	cpd:C00148
Aldosterone synthesis and secretion	1	0.44942	1	0	cpd:C02140
Cholinergic synapse	1	0.46032	1	0	cpd:C00114
Insulin resistance	1	0.47102	1	0	cpd:C00022
Sphingolipid signaling pathway	1	0.48666	1	0	cpd:C00319
Apoptosis	1	0.50186	1	0	cpd:C00319
Protein digestion and absorption	1	0.50682	1	0	cpd:C00148
AMPK signaling pathway	1	0.50929	1	0	cpd:C00022
Vascular smooth muscle contraction	1	0.52143	1	0.014085	cpd:C14770
Phagosome	1	0.53328	1	0	hsa:7057
Adrenergic signaling in cardiomyocytes	1	0.54711	1	0.028169	cpd:C07056
Retrograde endocannabinoid signaling	1	0.56494	1	0	cpd:C00157
Cushing syndrome	1	0.56712	1	0	cpd:C00735
Alzheimer disease	1	0.58833	1	0.014925	hsa:2597
Porphyrin and chlorophyll metabolism	1	0.60056	1	0.012346	cpd:C00486
Viral carcinogenesis	1	0.63331	1	0	hsa:8345
Focal adhesion	1	0.63331	1	0.032258	hsa:7057
Pathogenic Escherichia coli infection	1	0.63881	1	0.008	hsa:2597
Proteoglycans in cancer	1	0.65133	1	0.015	hsa:7057
Rap1 signaling pathway	1	0.65829	1	0.010638	hsa:7057
cAMP signaling pathway	1	0.70032	1	0.008197	cpd:C00186
Thermogenesis	1	0.71939	1	0	cpd:C00318
MicroRNAs in cancer	1	0.78879	1	0.002227	hsa:7057
Human papillomavirus infection	1	0.81213	1	0.01875	hsa:7057
PI3K-Akt signaling pathway	1	0.83463	1	0.029412	hsa:7057
Neuroactive ligand-receptor interaction	1	0.86103	1	0.005618	cpd:C00735

Table S8**Table S8** Detailed information about the enriched pathways in sham acupuncture group

Pathways	Hits	Raw p	FDR	Impact	Matched_features
Focal adhesion	4	0.002614	0.25055	0.25806	hsa:87; hsa:2335; hsa:7057; hsa:60
Proteoglycans in cancer	4	0.003115	0.25055	0.085	hsa:60; hsa:7057; hsa:4478; hsa:2335
Regulation of actin cytoskeleton	4	0.003502	0.25055	0.13253	hsa:87; hsa:4478; hsa:2335; hsa:60
Linoleic acid metabolism	3	0.000589	0.19499	0.02439	cpd:C14827; cpd:C00157; cpd:C14762
Choline metabolism in cancer	3	0.003814	0.25055	0	cpd:C00114; cpd:C00157; cpd:C04230
Leukocyte transendothelial migration	3	0.004542	0.25055	0.087912	hsa:60; hsa:4478; hsa:87
Glycerophospholipid metabolism	3	0.009073	0.429	0.1619	cpd:C04230; cpd:C00114; cpd:C00157
Tight junction	3	0.012963	0.53634	0.096296	hsa:87; hsa:60; hsa:4478
ABC transporters	3	0.015783	0.57021	0	cpd:C00114; cpd:C01606; cpd:C00294
Adherens junction	2	0.017983	0.57021	0.29333	hsa:60; hsa:87
Bacterial invasion of epithelial cells	2	0.01895	0.57021	0.16279	hsa:60; hsa:2335
ECM-receptor interaction	2	0.027436	0.75676	0.21528	hsa:2335; hsa:7057
Cysteine and methionine metabolism	2	0.04179	0.96725	0.009709	cpd:C08276; cpd:C03145
Tyrosine metabolism	2	0.043148	0.96725	0.096774	cpd:C00082; cpd:C05576
Amoebiasis	2	0.043833	0.96725	0	hsa:2335; hsa:87
Yersinia infection	2	0.050907	1	0.052083	hsa:2335; hsa:60
Arachidonic acid metabolism	2	0.06067	1	0.02521	cpd:C14773; cpd:C00157
Phagosome	2	0.072666	1	0	hsa:60; hsa:7057
Steroid hormone biosynthesis	2	0.077665	1	0.065728	cpd:C00535; cpd:C03681
Retrograde endocannabinoid signaling	2	0.084496	1	0.035714	cpd:C13856; cpd:C00157
Porphyrin and chlorophyll metabolism	2	0.099593	1	0	cpd:C05794; cpd:C05790
Pathogenic Escherichia coli infection	2	0.11824	1	0.048	hsa:60; hsa:2597
Rap1 signaling pathway	2	0.12886	1	0.053191	hsa:60; hsa:7057
Purine metabolism	2	0.1387	1	0.049505	cpd:C00294; cpd:C00262
Thermogenesis	2	0.16812	1	0.036145	hsa:60; cpd:C13856
Human papillomavirus infection	2	0.25237	1	0.01875	hsa:2335; hsa:7057
PI3K-Akt signaling pathway	2	0.27956	1	0.029412	hsa:2335; hsa:7057
Pathways in cancer	2	0.49149	1	0.009259	hsa:2335; cpd:C00535
Phenylalanine, tyrosine and tryptophan biosynthesis	1	0.11014	1	0.14634	cpd:C00082
Bladder cancer	1	0.11274	1	0	hsa:7057
Sulfur metabolism	1	0.11791	1	0	cpd:C08276
Thiamine metabolism	1	0.12816	1	0	cpd:C00082
Pantothenate and CoA biosynthesis	1	0.12816	1	0	cpd:C05944

Malaria	1	0.14583	1	0	hsa:7057
Cocaine addiction	1	0.1533	1	0	cpd:C00082
Vibrio cholerae infection	1	0.15824	1	0.035714	hsa:60
Viral myocarditis	1	0.1607	1	0.030303	hsa:60
Endocrine and other factor-regulated calcium reabsorptior	1	0.16316	1	0.017857	cpd:C01673
Shigellosis	1	0.18254	1	0.02381	hsa:60
alpha-Linolenic acid metabolism	1	0.18254	1	0.038462	cpd:C00157
p53 signaling pathway	1	0.18969	1	0.015152	hsa:7057
Sphingolipid metabolism	1	0.18969	1	0.14754	cpd:C00836
Ovarian steroidogenesis	1	0.19206	1	0	cpd:C00535
GnRH secretion	1	0.19206	1	0.021277	cpd:C00535
Phenylalanine metabolism	1	0.20148	1	0.013889	cpd:C00082
Steroid biosynthesis	1	0.20148	1	0.020408	cpd:C01673
Amphetamine addiction	1	0.20382	1	0	cpd:C00082
Arrhythmogenic right ventricular cardiomyopathy (ARVC)	1	0.20615	1	0	hsa:60
Biosynthesis of unsaturated fatty acids	1	0.20615	1	0.007576	cpd:C06428
Complement and coagulation cascades	1	0.20848	1	0.029851	hsa:5104
Prolactin signaling pathway	1	0.21079	1	0	cpd:C00082
PPAR signaling pathway	1	0.21079	1	0.016949	cpd:C14762
Salmonella infection	1	0.21771	1	0.061224	hsa:60
Mineral absorption	1	0.22456	1	0.011765	cpd:C01673
Gastric acid secretion	1	0.2291	1	0.019231	hsa:60
Glycine, serine and threonine metabolism	1	0.23136	1	0.011765	cpd:C00114
Hypertrophic cardiomyopathy (HCM)	1	0.2381	1	0.043478	hsa:60
TGF-beta signaling pathway	1	0.24034	1	0.0125	hsa:7057
Small cell lung cancer	1	0.24256	1	0.039216	hsa:2335
Dilated cardiomyopathy (DCM)	1	0.25141	1	0.06383	hsa:60
Glycolysis or Gluconeogenesis	1	0.25141	1	0.12308	hsa:2597
Ubiquinone and other terpenoid-quinone biosynthesis	1	0.26016	1	0.011628	cpd:C00082
Central carbon metabolism in cancer	1	0.26665	1	0	cpd:C00082
Melanogenesis	1	0.26881	1	0.022727	cpd:C00082
Endocrine resistance	1	0.27095	1	0	cpd:C00535
Prostate cancer	1	0.27095	1	0.032258	cpd:C00535
AGE-RAGE signaling pathway in diabetic complications	1	0.27309	1	0	hsa:2335
Parathyroid hormone synthesis, secretion and action	1	0.28791	1	0.012195	cpd:C01673
Aminoacyl-tRNA biosynthesis	1	0.29208	1	0.010309	cpd:C00082
Cholinergic synapse	1	0.30448	1	0	cpd:C00114

HIF-1 signaling pathway	1	0.30448	1	0.036585	hsa:2597
Lysosome	1	0.31059	1	0	hsa:8546
Thyroid hormone signaling pathway	1	0.31666	1	0.009434	hsa:60
Sphingolipid signaling pathway	1	0.32467	1	0	cpd:C00836
Systemic lupus erythematosus	1	0.32864	1	0	hsa:87
Platelet activation	1	0.33258	1	0.022989	hsa:60
Measles	1	0.33455	1	0.011236	hsa:4478
Apoptosis	1	0.33651	1	0.026549	hsa:60
Protein digestion and absorption	1	0.34041	1	0	cpd:C00082
Dopaminergic synapse	1	0.34235	1	0	cpd:C00082
Fluid shear stress and atherosclerosis	1	0.35006	1	0.009524	hsa:60
Hippo signaling pathway	1	0.36335	1	0.009804	hsa:60
Serotonergic synapse	1	0.36897	1	0	cpd:C14773
Parkinson disease	1	0.36897	1	0	cpd:C00082
Adrenergic signaling in cardiomyocytes	1	0.37268	1	0.028169	cpd:C07056
Oxytocin signaling pathway	1	0.38371	1	0.013158	hsa:60
Necroptosis	1	0.39633	1	0.010638	hsa:5478
Influenza A	1	0.39811	1	0	hsa:60
Alzheimer disease	1	0.40695	1	0.014925	hsa:2597
Hepatocellular carcinoma	1	0.41392	1	0.067797	hsa:60
Alcoholism	1	0.43438	1	0	cpd:C00082
Metabolism of xenobiotics by cytochrome P450	1	0.43939	1	0	cpd:C11714
Tuberculosis	1	0.43939	1	0.007194	cpd:C01673
Viral carcinogenesis	1	0.446	1	0	hsa:87
Bile secretion	1	0.51532	1	0	cpd:C00114
MicroRNAs in cancer	1	0.59962	1	0.002227	hsa:7057
Neuroactive ligand-receptor interaction	1	0.68706	1	0.005618	cpd:C13856

Table 10. Comparison analysis and evaluation results of cloud, SaaS and on-premise

Criteria	Cloud	SaaS	On-premise
1. Initial investment	Low	Low	High
2. Ongoing costs	Low	Low	High
3. Scalability	High	High	Low
4. Flexibility	High	High	Low
5. Security	High	High	Low
6. Reliability	High	High	Low
7. Performance	High	High	Low
8. Integration	High	High	Low
9. Support	High	High	Low
10. Compliance	High	High	Low
11. Data ownership	Low	Low	High
12. Vendor lock-in	Low	Low	High
13. Customization	Low	Low	High
14. Control	Low	Low	High
15. Risk	Low	Low	High
16. Disaster recovery	High	High	Low
17. Business continuity	High	High	Low
18. Innovation	High	High	Low
19. Agility	High	High	Low
20. Time to market	High	High	Low
21. Total cost of ownership	Low	Low	High
22. Sustainability	High	High	Low
23. Environmental impact	High	High	Low
24. Social responsibility	High	High	Low
25. Governance	High	High	Low
26. Transparency	High	High	Low
27. Accountability	High	High	Low
28. Ethical considerations	High	High	Low
29. Privacy	High	High	Low
30. Data protection	High	High	Low
31. Information security	High	High	Low
32. Cybersecurity	High	High	Low
33. Risk management	High	High	Low
34. Compliance (GDPR, etc.)	High	High	Low
35. Regulatory requirements	High	High	Low
36. Industry standards	High	High	Low
37. Best practices	High	High	Low
38. Continuous improvement	High	High	Low
39. Innovation culture	High	High	Low
40. Employee engagement	High	High	Low
41. Customer satisfaction	High	High	Low
42. Net promoter score	High	High	Low
43. Brand reputation	High	High	Low
44. Market position	High	High	Low
45. Competitive advantage	High	High	Low
46. Strategic alignment	High	High	Low
47. Business model innovation	High	High	Low
48. Digital transformation	High	High	Low
49. Industry disruption	High	High	Low
50. Future-proofing	High	High	Low

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* Significant variables only
** Significant variables only

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Mediation analysis (variables 7, n=56)

<p>Model : 4 Y : PSQI X : Temporal_Mid_L M : Traumatic acid Sample Size: 56 Total effect of X on Y Effect -0.166</p> <table border="1"> <thead> <tr> <th></th> <th>se</th> <th>t</th> <th>p</th> <th>LLCI</th> <th>ULCI</th> <th>c'_cs</th> </tr> </thead> <tbody> <tr> <td>Effect</td> <td>0.0719</td> <td>-2.3085</td> <td>0.0248</td> <td>-0.3102</td> <td>-0.0218</td> <td>-0.2997</td> </tr> </tbody> </table> <p>Direct effect of X on Y Effect -0.1214</p> <table border="1"> <thead> <tr> <th></th> <th>se</th> <th>t</th> <th>p</th> <th>LLCI</th> <th>ULCI</th> <th>c'_cs</th> </tr> </thead> <tbody> <tr> <td>Effect</td> <td>0.0754</td> <td>-1.6108</td> <td>0.1132</td> <td>-0.2727</td> <td>0.0298</td> <td>-0.2192</td> </tr> </tbody> </table> <p>Indirect effect(s) of X on Y: Traumatic acid</p> <table border="1"> <thead> <tr> <th></th> <th>Effect</th> <th>BootSE</th> <th>BootLLCI</th> <th>BootULCI</th> </tr> </thead> <tbody> <tr> <td>Traumatic acid</td> <td>-0.0446</td> <td>0.0583</td> <td>-0.1811</td> <td>0.0347</td> </tr> </tbody> </table>		se	t	p	LLCI	ULCI	c'_cs	Effect	0.0719	-2.3085	0.0248	-0.3102	-0.0218	-0.2997		se	t	p	LLCI	ULCI	c'_cs	Effect	0.0754	-1.6108	0.1132	-0.2727	0.0298	-0.2192		Effect	BootSE	BootLLCI	BootULCI	Traumatic acid	-0.0446	0.0583	-0.1811	0.0347	<p>Model : 4 Y : PSQI X : Traumatic acid M : Temporal_Mid_L Sample Size: 56 Total effect of X on Y Effect 0.3633</p> <table border="1"> <thead> <tr> <th></th> <th>se</th> <th>t</th> <th>p</th> <th>LLCI</th> <th>ULCI</th> <th>c'_cs</th> </tr> </thead> <tbody> <tr> <td>Effect</td> <td>0.1529</td> <td>2.3761</td> <td>0.0211</td> <td>0.0568</td> <td>0.6699</td> <td>0.3077</td> </tr> </tbody> </table> <p>Direct effect of X on Y Effect 0.2733</p> <table border="1"> <thead> <tr> <th></th> <th>se</th> <th>t</th> <th>p</th> <th>LLCI</th> <th>ULCI</th> <th>c'_cs</th> </tr> </thead> <tbody> <tr> <td>Effect</td> <td>0.1607</td> <td>1.7003</td> <td>0.0949</td> <td>-0.0491</td> <td>0.5957</td> <td>0.2314</td> </tr> </tbody> </table> <p>Indirect effect(s) of X on Y: Temporal_Mid_L</p> <table border="1"> <thead> <tr> <th></th> <th>Effect</th> <th>BootSE</th> <th>BootLLCI</th> <th>BootULCI</th> </tr> </thead> <tbody> <tr> <td>Temporal_Mid_L</td> <td>0.09</td> <td>0.0857</td> <td>-0.0805</td> <td>0.2511</td> </tr> </tbody> </table>		se	t	p	LLCI	ULCI	c'_cs	Effect	0.1529	2.3761	0.0211	0.0568	0.6699	0.3077		se	t	p	LLCI	ULCI	c'_cs	Effect	0.1607	1.7003	0.0949	-0.0491	0.5957	0.2314		Effect	BootSE	BootLLCI	BootULCI	Temporal_Mid_L	0.09	0.0857	-0.0805	0.2511
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