# Metabolomic Data Analysis with MetaboAnalyst 5.0

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#### 1 Background

MSEA or Metabolite Set Enrichment Analysis is a way to identify biologically meaningful patterns that are significantly enriched in quantitative metabolomic data. In conventional approaches, metabolites are evaluated individually for their significance under conditions of study. Those compounds that have passed certain significance level are then combined to see if any meaningful patterns can be discerned. In contrast, MSEA directly investigates if a set of functionally related metabolites without the need to preselect compounds based on some arbitrary cut-off threshold. It has the potential to identify subtle but consistent changes among a group of related compounds, which may go undetected with the conventional approaches.

Essentially, MSEA is a metabolomic version of the popular GSEA (Gene Set Enrichment Analysis) software with its own collection of metabolite set libraries as well as an implementation of user-friendly web-interfaces. GSEA is widely used in genomics data analysis and has proven to be a powerful alternative to conventional approaches. For more information, please refer to the original paper by Subramanian A, and a nice review paper by Nam D, Kim SY. <sup>1</sup>. <sup>2</sup>

#### 2 MSEA Overview

Metabolite set enrichment analysis consists of four steps - data input, data processing, data analysis, and results download. Different analysis procedures are performed based on different input types. In addition, users can also browse and search the metabolite set libraries as well as upload their self-defined metabolite sets for enrichment analysis. Users can also perform metabolite name mapping between a variety of compound names, synonyms, and major database identifiers.

## 3 Data Input

There are three enrichment analysis algorithms offered by MSEA. Accordingly, three different types of data inputs are required by these three approaches:

- A list of important compound names entered as a one column data (Over Representation Analysis (ORA));
- A single measured biofluid (urine, blood, CSF) sample- entered as tab separated two-column data with the first column for compound name, and the second for concentration values (Single Sample Profiling (SSP));

 $<sup>^1</sup>$ Subramanian Gene set enrichment analysis: A knowledge-based approach for interpreting genome-wide expression profiles., Proc Natl Acad Sci USA. 2005 102(43): 15545-50

<sup>&</sup>lt;sup>2</sup>Nam D, Kim SY. Gene-set approach for expression pattern analysis, Briefings in Bioinformatics. 2008 9(3): 189-197.

• A compound concentration table - entered as a comma separated (.csv) file with the each sample per row and each metabolite concentration per column. The first column is sample names and the second column for sample phenotype labels (Quantitative Enrichment Analysis (QEA))

You selected Over Representation Analysis (ORA) which requires a list of compound names as input.

# 4 Data Process

The first step is to standardize the compound labels. It is an essential step since the compound labels will be subsequently compared with compounds contained in the metabolite set library. MSEA has a built-in tool to convert between compound common names, synonyms, identifiers used in HMDB ID, PubChem, ChEBI, BiGG, METLIN, KEGG, or Reactome. **Table 1** shows the conversion results. Note: 1 indicates exact match, 2 indicates approximate match, and 0 indicates no match. A text file contain the result can be found the downloaded file  $name\_map.csv$ 

	Query	Match	HMDB
1	HMDB0167366	NA	NA
2	HMDB0094692	NA	NA
3	HMDB0041945	NA	NA
4	HMDB0167367	NA	NA
5	HMDB0167365	NA	NA
6	HMDB0240305	NA	NA
7	HMDB0031654	3-Aminobutanoic acid	HMDB0031654
8	HMDB0094693	NA	NA
9	HMDB0002166	(S)-b-aminoisobutyric acid	HMDB0002166
10	HMDB0000452	L-Alpha-aminobutyric acid	HMDB0000452
11	HMDB0002299	(R)-b-aminoisobutyric acid	HMDB0002299
12	HMDB0001906	2-Aminoisobutyric acid	HMDB0001906
13	HMDB0003911	3-Aminoisobutanoic acid	HMDB0003911
14	HMDB0003311	Gamma-Aminobutyric acid	HMDB0003911
15	HMDB0038394	NA	NA
16		Butyl nitrite	HMDB0031329
	HMDB0031329		
17	HMDB0000092	Dimethylglycine	HMDB0000092
18	HMDB0000650	D-Alpha-aminobutyric acid	HMDB0000650
19	HMDB0061050	NA NA	NA
20	HMDB0167139	NA NA	NA
21	HMDB0167138	NA	NA
22	HMDB0000549	Gamma-Butyrolactone	HMDB0000549
23	HMDB0002523	Oxolan-3-one	HMDB0002523
24	HMDB0003407	Diacetyl	HMDB0003407
25	HMDB0031209	Ethenyl acetate	HMDB0031209
26	HMDB0034439	Isocrotonic acid	HMDB0034439
27	HMDB0033977	Methyl acrylate	HMDB0033977
28	HMDB0174868	NA	NA
29	HMDB0010720	But-2-enoic acid	HMDB0010720
30	HMDB0240288	NA	NA
31	HMDB0161316	NA	NA
32	HMDB0002994	Erythritol	HMDB0002994
33	HMDB0004136	D-Threitol	HMDB0004136
34	HMDB0094689	NA	NA
35	HMDB0165469	NA	NA
36	HMDB0165470	NA	NA
37	HMDB0062640	NA	NA
38	HMDB0126088	NA	NA
39	HMDB0000710	4-Hydroxybutyric acid	HMDB0000710
40	HMDB0000442	(S)-3-Hydroxybutyric acid	HMDB0000442
41	HMDB0000357	3-Hydroxybutyric acid	HMDB0000357
42	HMDB0000337	(R)-3-Hydroxyisobutyric acid	HMDB0000336
43	HMDB0000330	(R)-3-Hydroxybutyric acid	HMDB0000330
44	HMDB0000023	(S)-3-Hydroxyisobutyric acid	HMDB0000023
45	HMDB0000729	Alpha-Hydroxyisobutyric acid	HMDB0000729
46	HMDB0031212	Ethoxyacetic acid	HMDB0031212
47	HMDB0059748	NA	NA
48	HMDB0000008	2-Hydroxybutyric acid	HMDB0000008
49	HMDB0015507	Gamma Hydroxybutyric Acid	HMDB0015507
50	HMDB0061950	NA	NA
51	HMDB0000532	Acetylglycine	HMDB0000532
52	HMDB0006454	L-2-Amino-3-oxobutanoic acid	HMDB0006454
53	HMDB0012249	L-Aspartate-semialdehyde	HMDB0012249
54	HMDB0161181	NA	NA
55	HMDB0187639	NA	NA
56	HMDB0032523	Succinic anhydride	HMDB0032523
57	HMDB0029389	(+)-threo-2-Amino-3,4-dihydroxybutanoic acid	HMDB0029389
58	HMDB0000034	Adenine	HMDB0000034
59	HMDB0003431	L-Histidinol	HMDB0003431

60	HMDB0128943	NA	NA
61	HMDB0132477	NA	NA
62	HMDB0129097	NA	NA
63	HMDB0168839	NA	NA
64	HMDB0128916	NA	NA
65	HMDB012333		HMDB0012233
		Glutarate semialdehyde	
66	HMDB0029172	3-keto-2-Methylbutyrate	HMDB0029172
67	HMDB0001865	2-Oxovaleric acid	HMDB0001865
68	HMDB0000310	Methylacetoacetic acid	HMDB0000310
69	HMDB0031643	Ethyl pyruvate	HMDB0031643
70	HMDB0000019	Alpha-ketoisovaleric acid	HMDB0000019
71	HMDB0003771	2-Methylacetoacetic acid	HMDB0003771
72	HMDB0000720	Levulinic acid	HMDB0000720
73	HMDB0034466	Acetoxyacetone	HMDB0034466
74	HMDB0034400	NA NA	NA
75	HMDB0129096	NA	NA
76	HMDB0129098	NA	NA
77	HMDB0168838	NA	NA
78	HMDB0177210	NA	NA
79	HMDB0169666	NA	NA
80	HMDB0177209	NA	NA
81	HMDB0171727	NA	NA
82	HMDB0032356	N-Lactoyl ethanolamine	HMDB0032356
83	HMDB0039499	NA	NA
84	HMDB0031658	L-2-Amino-5-hydroxypentanoic acid	HMDB0031658
85	HMDB0039790	NA NA	NA
86	HMDB0038974	NA	NA
	HMDB0039789	NA NA	NA
87			
88	HMDB0000786	Oxypurinol	HMDB0000786
89	HMDB0000292	Xanthine	HMDB0000292
90	HMDB0001182	6,8-Dihydroxypurine	HMDB0001182
91	HMDB0000744	Malic acid	HMDB0000744
92	HMDB0031518	D-Malic acid	HMDB0031518
93	HMDB0000156	L-Malic acid	HMDB0000156
94	HMDB0032872	Velcorin	HMDB0032872
95	HMDB0061971	NA	NA
96	HMDB00001312	Guanine	HMDB0000132
97	HMDB0000403	2-Hydroxyadenine	HMDB0000403
98	HMDB0000542	8-Hydroxyadenine	HMDB0000542
99	HMDB0240251	NA	NA
100	HMDB0061880	NA	NA
101	HMDB0059659	Trans-3-hydroxy-L-proline	HMDB0059659
102	HMDB0002113	3-Hydroxy-L-proline	HMDB0002113
103	HMDB0000783	Propionylglycine	HMDB0000783
104	HMDB0000766	N-Acetyl-L-alanine	HMDB0000766
105	HMDB0000725	4-Hydroxyproline	HMDB0000725
106	HMDB0036576	NA	NA
107	HMDB00001149	5-Aminolevulinic acid	HMDB0001149
108	HMDB0002104	L-Glutamic gamma-semialdehyde	HMDB0002104
109	HMDB0006055	4-Hydroxy-L-proline	HMDB0006055
110	HMDB0060460	cis-4-Hydroxy-D-proline	HMDB0060460
111	HMDB0006272	5-Amino-2-oxopentanoic acid	HMDB0006272
112	HMDB0177404	NA	NA
113	HMDB0014389	Mesalazine	HMDB0014389
114	HMDB0164041	NA	NA
115	HMDB0059749	NA	NA
116	HMDB0001972	3-Aminosalicylic acid	HMDB0001972
117	HMDB0014378	Aminosalicylic Acid	HMDB0014378
118	HMDB0001476	3-Hydroxyanthranilic acid	HMDB0001476
119	HMDB0059811	NA Tetrahydrodipicolinate	NA HMDD0012220
120	HMDB0012289		HMDB0012289
121	HMDB0014447	Tranexamic Acid	HMDB0014447
122	HMDB0033433	(S)-Homostachydrine	HMDB0033433
123	HMDB0039651	NA	NA
124	HMDB0039680	NA	NA
125	HMDB0036176	NA	NA
126	HMDB0037625	NA	NA
127	HMDB0040526	NA	NA
128	HMDB0037196	NA	NA
129	HMDB0037167	NA	NA
130	HMDB0039652	NA NA	NA
131	HMDB0039032	NA NA	NA NA
132	HMDB0032311	2,4-Hexadienyl acetate	HMDB0032311
133	HMDB0039673	NA	NA
134	HMDB0040463	NA	NA
135	HMDB0039681	NA	NA
136	HMDB0033054	Ethyl isopropyl disulfide	HMDB0033054
137	HMDB0033053	Ethyl propyl disulfide	HMDB0033053
138	HMDB0031160	1-Pentanesulfenothioic acid	HMDB0031160
139	HMDB0000157	Hypoxanthine	HMDB0000157
140	HMDB0014581	Allopurinol	HMDB0014581
141	HMDB000943	Threonic acid	HMDB000943
$141 \\ 142$	HMDB0062620	NA	NA
143	HMDB0000613	Erythronic acid	HMDB0000613
144	HMDB0137818	NA	NA
145	HMDB0183470	NA .	NA
146	HMDB0060348	Maleylacetic acid	HMDB0060348

```
HMDB0031210
                                                                                                                  HMDB0031210
147
                      Zymonic acid
      HMDB0037759
                      ΝĀ
148
                                                                                                                  NA
      HMDB0014273
149
                      NA
                                                                                                                  NA
      {\rm HMDB0000044}
                      Ascorbic acid
                                                                                                                  HMDB0000044
150
151
      {\rm HMDB0031193}
                      1,2,3-Propanetricarboxylic acid
                                                                                                                  HMDB0031193
      HMDB0006355
152
                      D-Glucurono-6,3-lactone
                                                                                                                  HMDB0006355
      HMDB0160667
153
                      NA
                                                                                                                  NA
      HMDB0160666
                      NA
                                                                                                                  NA
154
      HMDB0160406
                      NA
                                                                                                                  NA
155
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156
                                                                                                                  HMDB0000694
157
      {\rm HMDB0000694}
                      L-2-Hydroxyglutaric acid
158
      HMDB0000428
                      3-Hydroxyglutaric acid
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159
                      Citramalic acid
                      D-2-Hydroxyglutaric acid
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      HMDB0000606
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161
      HMDB0059655
                      2-Hydroxyglutarate
                                                                                                                  HMDB0059655
      {\rm HMDB0001900}
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162
                      Ribonolactone
163
      HMDB0161319
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      HMDB0061190
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                      NA
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      HMDB0062739
166
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168
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169
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      HMDB0001566
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171
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                                                                                                                  HMDB0000897
                      7-Methylguanine
172
      HMDB0006040
                                                                                                                  HMDB0006040
173
                      N2-Methylguanine
      HMDB0003282
                                                                                                                  HMDB0003282
174
                      1-Methylguanine
175
      HMDB0011657
                      2,6-Diamino-4-hydroxy-5-N-methylformamidopyrimidine
                                                                                                                  HMDB0011657
176
      {\rm HMDB0000232}
                      Quinolinic acid
                                                                                                                  HMDB0000232
177
      HMDB0033161
                      2,6-Pyridinedicarboxylic acid
                                                                                                                  HMDB0033161
      HMDB0185628
                      NΑ
178
                                                                                                                  NΑ
                                                                                                                  HMDB0001330
179
      HMDB0001330
                      2-Amino-3-carboxymuconic acid semialdehyde
      HMDB0062578
180
                      NA
                                                                                                                  NA
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181
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182
      HMDB0001552
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                                                                                                                  HMDB0001552
183
      HMDB0013988
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184
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                                                                                                                  NA
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185
      HMDB0038338
186
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188
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189
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190
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191
      HMDB0029224
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                                                                                                                  HMDB0029224
192
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                                                                                                                  NA
      {\rm HMDB0030372}
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193
                      Maltoxazine
194
      {\rm HMDB0040021}
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195
      {\rm HMDB0001189}
                      2(N)-Methyl-norsal
solinol
      HMDB0005199
                                                                                                                  HMDB0005199
196
                      (R.)-Salsolinol
      HMDB0031811
                                                                                                                  HMDB0031811
                      3,5-Dimethylphenyl methylcarbamate
197
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198
                                                                                                                  NA
199
      HMDB0029034
                      Serylasparagine
                                                                                                                  HMDB0029034
      HMDB0028740
                      Asparaginyl-Serine
                                                                                                                  HMDB0028740
200
                      (+/-)-3-[(2-methyl-3-furyl)thio]-2-butanone
201
      HMDB0032401
                                                                                                                  HMDB0032401
      HMDB0001539
202
                      Asymmetric dimethylarginine
                                                                                                                  HMDB0001539
      HMDB0003334
203
                                                                                                                  HMDB0003334
                      Symmetric dimethylarginine
      HMDB0164284
204
                      NA
                                                                                                                  NA
      HMDB0164282
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205
                      NA
206
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                      NA
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207
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                                                                                                                  NA
208
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                      NA
                                                                                                                  NA
      HMDB0164281
209
                      NA
                                                                                                                  NA
      HMDB0000933
                                                                                                                  HMDB0000933
210
                      Traumatic acid
      HMDB0030994
211
                      5-Heptyltetrahydro-2-oxo-3-furancarboxylic acid
                                                                                                                  {\rm HMDB0030994}
212
      HMDB0037816
                      NA
                                                                                                                  NA
213
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                                                                                                                  NA
                                                                                                                  HMDB0032871
214
      HMDB0032871
                      Sedanonic acid
      HMDB0032797
                                                                                                                  HMDB0032797
215
                      Jasmonic acid
216
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                                                                                                                  NA
217
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                                                                                                                  NA
      HMDB0037735
218
219
      HMDB0033102
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220
      HMDB0037642
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221
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                                                                                                                  NA
      HMDB0033640
                      7-Methyl-3-methylene-1,6,7-octanetriol
                                                                                                                  HMDB0033640
222
223
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                                                                                                                  NA
224
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225
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                                                                                                                  HMDB0034783
226
      HMDB0034783
                                                                                                                  HMDB0033574
227
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      HMDB0033201
                                                                                                                  HMDB0033201
228
                      9-Hydroxydecanoic acid
229
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                                                                                                                  NA
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230
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231
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232
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233
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HMDB0180104
234
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235
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237
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238
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239
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241
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243
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244
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      HMDB0094656
                      2-Hydroxydecanoate
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      HMDB0180585
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                                                                                                                 NΑ
247
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248
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                                                                                                                 HMDB0094651
     {\rm HMDB0029018}
                      Prolyl-Hydroxyproline
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249
250
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251
     HMDB0006695
                      Prolylhydroxyproline
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     HMDB0040573
252
                      NΑ
                                                                                                                 NA
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253
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                                                                                                                 NA
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254
                      Methyldopa
255
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                                                                                                                 HMDB0001434
256
     {\rm HMDB0011172}
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                                                                                                                 HMDB0011172
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     HMDB0029162
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     HMDB0028756
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                                                                                                                 HMDB0028903
259
      HMDB0028925
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260
                      Leucyl-Aspartate
      HMDB0028832
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261
                      Glutamylvaline
262
     HMDB0059717
263
     {\rm HMDB0029126}
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264
     HMDB0028757
                      Aspartyl-Leucine
                                                                                                                 HMDB0028757
      HMDB0011166
                      L-beta-aspartyl-L-leucine
                                                                                                                 HMDB0011166
265
266
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      HMDB0151783
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267
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     HMDB0151788
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                                                                                                                 NA
269
      HMDB0151787
                      NΑ
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270
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271
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     HMDB0132932
272
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273
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274
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275
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278
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279
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281
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                                                                                                                 {\rm HMDB0036025}
282
     {\rm HMDB0037194}
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                                                                                                                 NA
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283
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285
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286
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     HMDB0037720
287
288
      HMDB0035008
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     HMDB0036386
289
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                                                                                                                 NA
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      HMDB0037604
291
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      HMDB0029669
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292
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293
      HMDB0035181
                      xi-8,9-Dehydrotheaspirone
                                                                                                                 {\rm HMDB0035181}
294
     HMDB0039101
                      NΔ
                                                                                                                 NA
                      3-Acetoxy-3-methyl-1-phenylbutane
                                                                                                                 HMDB0034556
295
     HMDB0034556
     HMDB0032176
296
                      Benzyl hexanoate
                                                                                                                 HMDB0032176
297
      HMDB0163212
                      NA
                                                                                                                 NA
      HMDB0151805
                      NA
                                                                                                                 NA
      HMDB0151793
299
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                                                                                                                 NA
300
     {\rm HMDB}0151794
                      NA
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MG(18:2(9Z,12Z)/0:0/0:0)
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                        NA
                                                                                                                           NA
1758
       HMDB0113930
                        NA
                                                                                                                           NA
1759
       HMDB0055799
                         TG(22:6(4Z,7Z,10Z,13Z,16Z,19Z)/20:5(5Z,8Z,11Z,14Z,17Z)/22:6(4Z,7Z,10Z,13Z,16Z,19Z))
                                                                                                                           HMDB0010560
1760
       {\rm HMDB0010560}
1761
       {\rm HMDB0004879}
                        Trihexosylceramide (d18:1/16:0)
                                                                                                                           HMDB0004879
       HMDB0055889
                                                                                                                           NA
NA
1762
                        NA
       HMDB0055139
                        NA
1763
       HMDB0055937
1764
                         NA
                                                                                                                           NA
1765
       HMDB0010561
                         TG(22:6(4Z,7Z,10Z,13Z,16Z,19Z)/22:5(7Z,10Z,13Z,16Z,19Z)/22:6(4Z,7Z,10Z,13Z,16Z,19Z))
                                                                                                                           HMDB0010561
1766
       HMDB0054899
                        NA
                                                                                                                           NA
1767
       HMDB0055091
                        NA
                                                                                                                           NA
       HMDB0055131
1768
                        NΑ
                                                                                                                           NA
1769
       HMDB0055138
                        NA
                                                                                                                           NA
       HMDB0010554
                                                                                                                           HMDB0010554
                         TG(22:5(7Z.10Z.13Z.16Z.19Z)/22:5(7Z.10Z.13Z.16Z.19Z)/22:6(4Z.7Z.10Z.13Z.16Z.19Z))
1770
       HMDB0055871
1771
                        NA
                                                                                                                           NA
1772
       HMDB0055133
                         NA
                                                                                                                           NA
1773
       HMDB0055888
                         NΑ
                                                                                                                           NA
       HMDB0055935
1774
                        NA
                                                                                                                           NA
```

The second step is to check concentration values. For SSP analysis, the concentration must be measured in umol for blood and CSF samples. The urinary concentrations must be first converted to  $umol/mmol\_creatinine$  in order to compare with reported concentrations in literature. No missing or negative values are allowed in SSP analysis. The concentration data for QEA analysis is more flexible. Users can upload either the original concentration data or normalized data. Missing or negative values are allowed (coded as NA) for QEA.

## 5 Selection of Metabolite Set Library

Before proceeding to enrichment analysis, a metabolite set library has to be chosen. There are seven built-in libraries offered by MSEA:

- Metabolic pathway associated metabolite sets (currently contains 99 entries);
- Disease associated metabolite sets (reported in blood) (currently contains 344 entries);
- Disease associated metabolite sets (reported in urine) (currently contains 384 entries)
- Disease associated metabolite sets (reported in CSF) (currently contains 166 entries)
- Metabolite sets associated with SNPs (currently contains 4598 entries)
- Predicted metabolite sets based on computational enzyme knockout model (*currently contains 912 entries*)
- Metabolite sets based on locations (currently contains 73 entries)
- Drug pathway associated metabolite sets (currently contains 461 entries)

In addition, MSEA also allows user-defined metabolite sets to be uploaded to perform enrichment analysis on arbitrary groups of compounds which researchers want to test. The metabolite set library is simply a two-column comma separated text file with the first column for metabolite set names and the second column for its compound names (**must use HMDB compound name**) separated by "; ". Please note, the built-in libraries are mainly from human studies. The functional grouping of metabolites may not be valid. Therefore, for data from subjects other than human being, users are suggested to upload their self-defined metabolite set libraries for enrichment analysis.

# 6 Enrichment Analysis

Over Representation Analysis (ORA) is performed when a list of compound names is provided. The list of compound list can be obtained through conventional feature selection methods, or from a clustering algorithm, or from the compounds with abnormal concentrations detected in SSP, to investigate if some biologically meaningful patterns can be identified.

ORA was implemented using the *hypergeometric test* to evaluate whether a particular metabolite set is represented more than expected by chance within the given compound list. One-tailed p values are provided after adjusting for multiple testing. **Figure 2** below summarizes the result.

# **Enrichment Overview (top 25)**

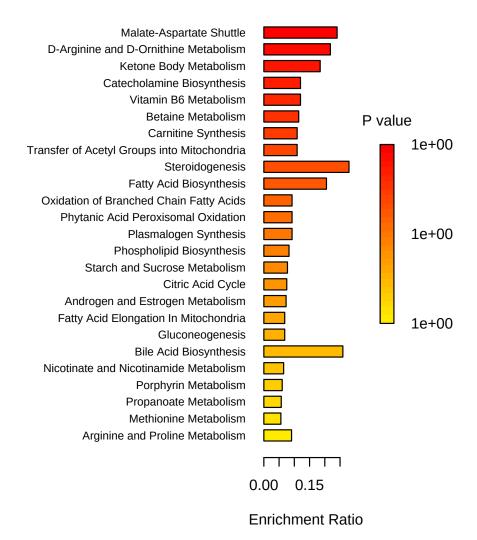


Figure 1: Summary Plot for Over Representation Analysis (ORA)

Table 2: Result from Over Representation Analysis

4 - 4 - 1	1	1. 27	D	TT - 1	EDD
					FDR
		1			1.00E+00
		1			1.00E+00
		1			1.00E+00
					1.00E+00
					1.00E+00
		1			1.00E+00
		1			1.00E+00
22	9.15	1	1.00E+00	1.00E+00	1.00E+00
					1.00E+00
	14.60	3	1.00E+00	1.00E+00	1.00E+00
26	10.80	1	1.00E+00	1.00E+00	1.00E+00
26	10.80	1	1.00E+00	1.00E+00	1.00E+00
26	10.80	1	1.00E+00	1.00E+00	1.00E+00
29	12.10	1	1.00E+00	1.00E+00	1.00E+00
31	12.90	1	1.00E+00	1.00E+00	1.00E+00
32	13.30	1	1.00E+00	1.00E+00	1.00E+00
33	13.70	1	1.00E+00	1.00E+00	1.00E+00
35	14.60	1	1.00E+00	1.00E+00	1.00E+00
35	14.60	1	1.00E+00	1.00E+00	1.00E+00
65	27.00	7	1.00E+00	1.00E+00	1.00E+00
37	15.40	1	1.00E+00	1.00E+00	1.00E+00
40	16.60	1	1.00E+00	1.00E+00	1.00E+00
42	17.50	1	1.00E+00	1.00E+00	1.00E+00
43	17.90	1	1.00E+00	1.00E+00	1.00E+00
53	22.00	2	1.00E+00	1.00E+00	1.00E+00
59	24.50	3	1.00E+00	1.00E+00	1.00E+00
59	24.50	3	1.00E+00	1.00E+00	1.00E+00
60	25.00	3	1.00E+00	1.00E+00	1.00E+00
60	25.00	3	1.00E+00	1.00E+00	1.00E+00
48	20.00	1	1.00E+00	1.00E+00	1.00E+00
49	20.40	1	1.00E+00	1.00E+00	1.00E+00
74	30.80	4	1.00E+00	1.00E+00	1.00E+00
58	24.10	1			1.00E+00
72	30.00	1		1.00E+00	1.00E+00
69	28.70	1			1.00E+00
	26 26 29 31 32 33 35 35 35 37 40 42 43 53 59 60 60 48 49 74 58 72	10	10	10         4.16         1         9.96E-01           11         4.58         1         9.97E-01           13         5.41         1         9.99E-01           20         8.32         1         1.00E+00           21         8.74         1         1.00E+00           21         8.74         1         1.00E+00           22         9.15         1         1.00E+00           22         9.15         1         1.00E+00           23         14.60         3         1.00E+00           26         10.80         1         1.00E+00           26         10.80         1         1.00E+00           26         10.80         1         1.00E+00           26         10.80         1         1.00E+00           29         12.10         1         1.00E+00           31         12.90         1         1.00E+00           32         13.30         1         1.00E+00           35         14.60         1         1.00E+00           35         14.60         1         1.00E+00           40         16.60         1         1.00E+00 <t< td=""><td>10         4.16         1         9.96E-01         1.00E+00           11         4.58         1         9.97E-01         1.00E+00           13         5.41         1         9.99E-01         1.00E+00           20         8.32         1         1.00E+00         1.00E+00           20         8.32         1         1.00E+00         1.00E+00           21         8.74         1         1.00E+00         1.00E+00           22         9.15         1         1.00E+00         1.00E+00           22         9.15         1         1.00E+00         1.00E+00           22         9.15         1         1.00E+00         1.00E+00           25         1.460         3         1.00E+00         1.00E+00           26         10.80         1         1.00E+00         1.00E+00           26         10.80</td></t<>	10         4.16         1         9.96E-01         1.00E+00           11         4.58         1         9.97E-01         1.00E+00           13         5.41         1         9.99E-01         1.00E+00           20         8.32         1         1.00E+00         1.00E+00           20         8.32         1         1.00E+00         1.00E+00           21         8.74         1         1.00E+00         1.00E+00           22         9.15         1         1.00E+00         1.00E+00           22         9.15         1         1.00E+00         1.00E+00           22         9.15         1         1.00E+00         1.00E+00           25         1.460         3         1.00E+00         1.00E+00           26         10.80         1         1.00E+00         1.00E+00           26         10.80

## 7 Appendix: R Command History

```
[1] "mSet<-InitDataObjects(\"conc\", \"pathora\", FALSE)"
 [2] "cmpd.vec<-c(\"HMDB0167366\",\"HMDB0094692\",\"HMDB0041945\",\"HMDB0167367\",\"HMDB0167365\",\"
 [3] "mSet<-Setup.MapData(mSet, cmpd.vec);"
 [4] "mSet<-CrossReferencing(mSet, \"hmdb\");"</pre>
 [5] "mSet<-CreateMappingResultTable(mSet)"
 [6] "mSet<-SetKEGG.PathLib(mSet, \"hsa\", \"current\")"</pre>
 [7] "mSet<-SetMetabolomeFilter(mSet, F);"
 [8] "mSet<-CalculateOraScore(mSet, \"rbc\", \"hyperg\")"
 [9] "mSet<-PlotPathSummary(mSet, F, \"path_view_0\\", \"png\\", 72, width=NA)"
[10] "mSet<-SaveTransformedData(mSet)"
[11] "UpdateDataObjects(\"conc\", \"msetora\", FALSE)"
[12] "mSet<-SetMetabolomeFilter(mSet, F);"</pre>
[13] "mSet<-SetCurrentMsetLib(mSet, \"smpdb_pathway\", 2);"
[14] "mSet<-CalculateHyperScore(mSet)"
[15] "mSet<-PlotORA(mSet, \"ora_0_\", \"net\", \"png\", 72, width=NA)"
[16] "mSet<-PlotEnrichDotPlot(mSet, \"ora\", \"ora_dot_0_\", \"png\", 72, width=NA)"
[17] "mSet<-CalculateHyperScore(mSet)"
[18] "mSet<-PlotORA(mSet, \"ora_1_\", \"net\", \"png\", 72, width=NA)"
[19] "mSet<-PlotEnrichDotPlot(mSet, \"ora\", \"ora_dot_1_\", \"png\", 72, width=NA)"
[20] "mSet<-SaveTransformedData(mSet)"
[21] "mSet<-PreparePDFReport(mSet, \"guest4067896030607704141\")\n"
```

The report was generated on Mon May 24 15:11:37 2021 with R version 4.0.2 (2020-06-22).