Table S1. Pathway Analysis Result with MetPA.

<table>
<thead>
<tr>
<th>No</th>
<th>Pathway Name</th>
<th>Total</th>
<th>Expected</th>
<th>Hits</th>
<th>Raw p</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ether lipid metabolism</td>
<td>13</td>
<td>0.0835</td>
<td>1</td>
<td>0.0806</td>
<td>0.2143</td>
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<tr>
<td>2</td>
<td>Glycerophospholipid metabolism</td>
<td>30</td>
<td>0.1926</td>
<td>3</td>
<td>0.0007</td>
<td>0.2065</td>
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<tr>
<td>3</td>
<td>Purine metabolism</td>
<td>68</td>
<td>0.4365</td>
<td>1</td>
<td>0.3616</td>
<td>0.0114</td>
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<td>4</td>
<td>Tryptophan metabolism</td>
<td>41</td>
<td>0.2632</td>
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<td>0.2350</td>
<td>0.0019</td>
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<td>5</td>
<td>Arachidonic acid metabolism</td>
<td>36</td>
<td>0.2311</td>
<td>2</td>
<td>0.0206</td>
<td>0</td>
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<tr>
<td>6</td>
<td>Synthesis and degradation of ketone bodies</td>
<td>5</td>
<td>0.0321</td>
<td>1</td>
<td>0.0317</td>
<td>0</td>
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<tr>
<td>7</td>
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<td>1</td>
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<td>8</td>
<td>alpha-Linolenic acid metabolism</td>
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<td>Folate biosynthesis</td>
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<td>0.1348</td>
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</tr>
</tbody>
</table>

Note: Total is the total number of compounds in the pathway; the Hits is the actually matched number from the user uploaded data; the Impact is the pathway impact value calculated from pathway topology analysis.