**Supplemental Table 3:** List of KEGG pathways significantly clustering with T2D patients or healthy controls, and responding to the Ma-Pi 2 diet. See biplot analysis of Figure 6 and 7.

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| **Comparison T2D patients at baseline / healthy controls** |
| **Functions associated with T2D** | **Functions associated with healthy controls**  |
|  Alanine, aspartate and glutamate metabolism | D-arginine and D-ornithine metabolism |
| Alpha linolenic acid metabolism | D-glutamine and D-glutamate metabolism |
| Arachidonic acid metabolism | Fatty acid biosynthesis |
| Pantothenate and CoA biosynthesis | Glycolysis / Gluconeogenesis |
| Phenylpropanoid biosynthesis |  |
| Polyketide sugar unit biosynthesis |  |
| Purine metabolism |  |
| Tyrosine metabolism |  |
| **Comparison T2D patients before / after Ma-Pi 2 diet** |
| **Functions associated with T1** | **Functions associated with T0** |
|  Alanine, aspartate and glutamate metabolism | Arachidonic acid metabolism |
| Biosynthesis of unsaturated fatty acids | Beta alanine metabolism |
| Cysteine and methionine metabolism | Cyanoamino acid metabolism |
| D-glutamine and D-glutamate metabolism | D-alanine metabolism |
| Glycolysis / Gluconeogenesis | Glycosphingolipid biosynthesis |
| Purine metabolism | Histidine metabolism |
| Taurine and hypotaurine metabolism | Oxidative phosphorylation |
| Valine, leucine and isoleucine degradation | Polyketide sugar unit biosynthesis |
|  | Sphingolipid metabolism |