Supplementary Materials: Investigation into Cellular Glycolysis for Mechanism Study of Energy Metabolism Disorder Triggered by Lipopolysaccharide

Ruyuan Zhang, Jian Ji, Ivana Blaženović, Fuwei Pi, Tingwei Wang, Yinzhi Zhang and Xiulan Sun

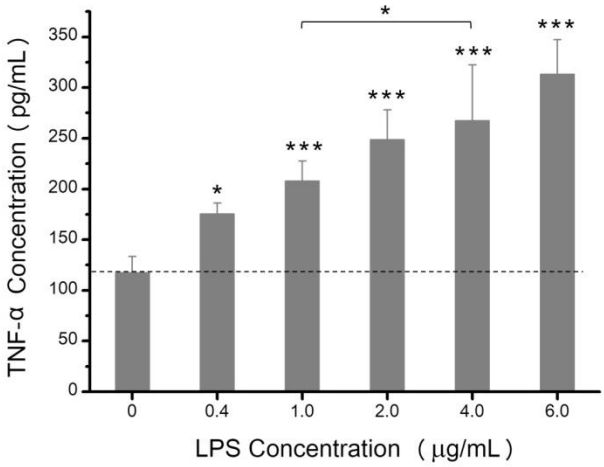

Figure S1. Effects of different concentrations of LPS (0, 0.4, 1.0, 2.0, 4.0, 6.0 μg/mL) on TNF-α content measured by ELISA. Data were presented as mean values with standard deviations. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

Table S1. List of the 23 metabolites related to energy metabolism.

				Relative Intensity		
Number	**t_R (min)**	**Nme**	***m/z***	**High LPS**	**LOW LPS**	**Control**
1	5.4	pyruvic acid	248	4.17×10^4	4.74×10^4	1.24×10^5
2	6.14	alanine	184	2.57×10^4	2.72×10^4	3.71×10^4
3	7.71	leucine	243	3.13×10^4	3.00×10^4	1.70×10^5
4	7.91	glycine	285	6.18×10^3	6.63×10^3	8.36×10^3
5	8.22	succinic acid	85	3.27×10^4	3.51×10^4	5.57×10^4
6	8.43	proline	85	3.96×10^4	3.75×10^4	7.06×10^4
7	8.58	serine	217	4.80×10^4	5.18×10^4	9.55×10^4
8	8.76	threonine	103	7.76×10^5	3.68×10^5	7.95×10^5
9	8.85	fumaric acid	149	6.55×10^5	6.07×10^5	5.30×10^5
10	9.5	oxalacetic acid	149	5.69×10^5	5.36×10^5	5.00×10^5
11	9.52	aspartic acid	174	3.15×10^4	2.78×10^4	1.83×10^4
12	9.64	malic acid	217	3.03×10^4	2.51×10^4	3.38×10^4
13	10.23	methionine	85	8.03×10^4	8.41×10^4	1.02×10^5
14	11.16	asparagine	117	2.37×10^6	1.95×10^6	1.45×10^6
15	11.78	aconitic acid	98	2.46×10^4	2.51×10^4	3.21×10^4
16	11.79	lactic acid	117	1.83×10^5	1.35×10^5	9.55×10^4
17	12.14	citric acid	86	2.50×10^4	2.03×10^4	2.40×10^4
18	12.8	glucose	147	2.06×10^5	2.02×10^5	1.95×10^5
19	12.89	erythrose-4-phosphate	131	7.12×10^4	7.19×10^4	1.16×10^5

20	14.02	ribulose-5-phosphate	97	5.71×10^4	5.70×10^4	7.95×10^4
21	14.11	ribose-5-phosphate	236	3.10×10^4	2.80×10^4	1.56×10^4
22	15.36	fructose-6-phosphate	506	8.40×10^3	7.27×10^3	5.24×10^3
23	15.74	glucose-6-phosphate	204	3.09×10^3	2.80×10^3	1.78×10^3