**Supplementary material**

**Figure S1.** Neutrophils were cultured for 1 – 24 h, and then stained with Annexin V-FITC/PI. The percentage of apoptotic cells was analyzed by flow cytometry. Data represent means ± SD, n = 3; *P < 0.05 vs. 0 h group.

**Figure S2.** OPLS-DA score plots. OPLS-DA score plots between differential metabolites between Control vs Control 4 h groups and Control 4 h vs LPS 4 h groups. (a) Control vs Control 4 h groups in positive ion modes. (b) Control vs Control 4 h groups in negative ion modes. (c) Control 4 h vs LPS 4 h groups in positive ion modes. (d) Control 4 h vs LPS 4 h groups in negative ion modes.

**Table S1.** Gene sequences of primers.

| Primers | Gene sequence                                      |
|---------|---------------------------------------------------|
| β-Actin | F: GAAGTCCCTCACCCCTCCCA<br> R: GCCATGGAGCGGACCA |
| OPLAH   | F: CAGTGGTACTCATGCATTGTA<br> R: GAGGACCTGACATTCTTTCAC |
| GGCT    | F: AGGAATAAACCTGCCGAACTTA<br> R: GATGATGTCTTCCATTTGTCG |
| GSR     | F: GACACCCTTCTTCCCACCTTACCC<br> R: CCCAGCTTGTGACTTCCAC |
| GGT     | F: TTTGCATCATCGGCTCTGT<br> R: CCCGATCTTCTGACAGC |
| GSS     | F: CAAAGCAGGCATAGACAGGG<br> R: AAAAGCGTGAATGGGCATAC |
| GCL-M   | F: AGTTGGAGCAGTGTACAGTG<br> R: TTAGCAAGGCAGTCAAATCTGG |
| GCL-C   | F: CAGATATTGATGAGGAGTAG<br> R: CAGCGGAATGAGGAAAGT |
