

1 **Supporting Information**

2 **An integrated study on the comprehensive mechanism of *schisandra chinensis***

3 **polysaccharides mitigating Alzheimer's disease rats using a UPLC-Q-TOF-MS**

4 **based serum and urine metabolomics strategy**

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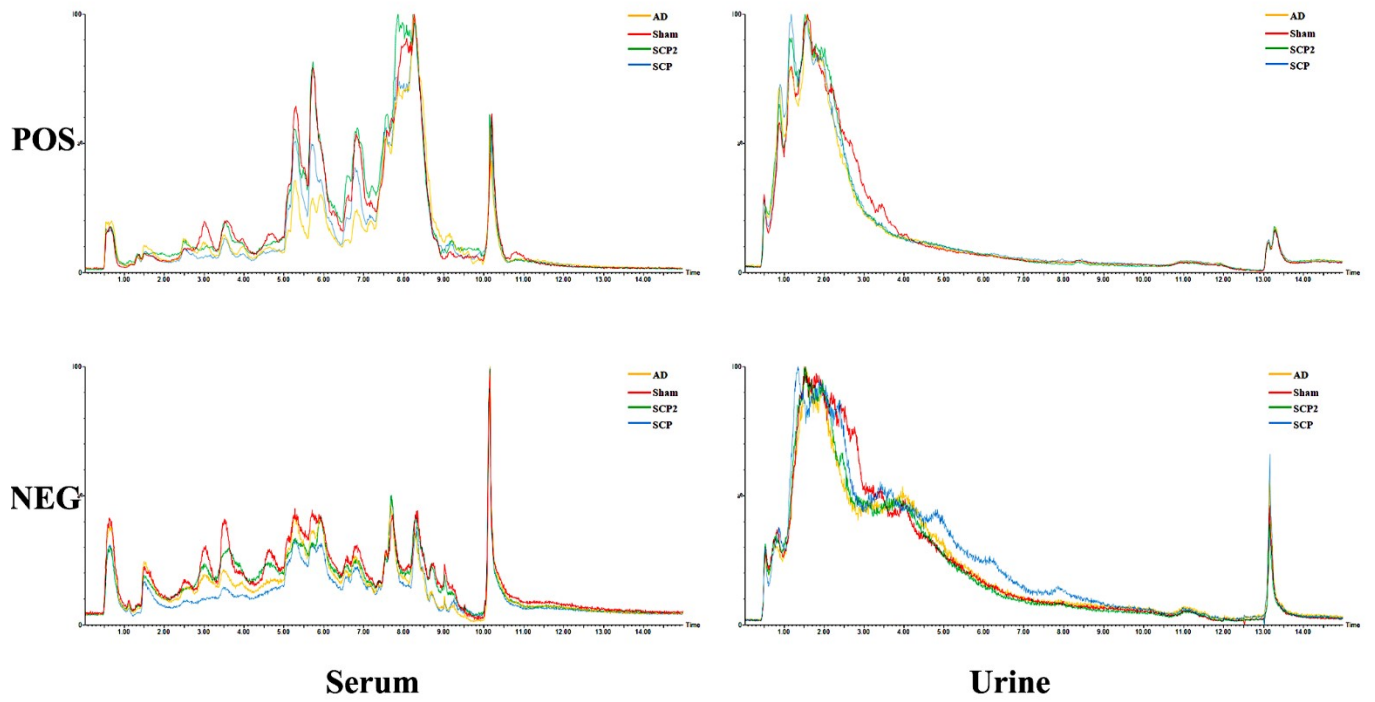
21 3. Fig. S3 in page 5

22 4. Fig. S4 in page 6

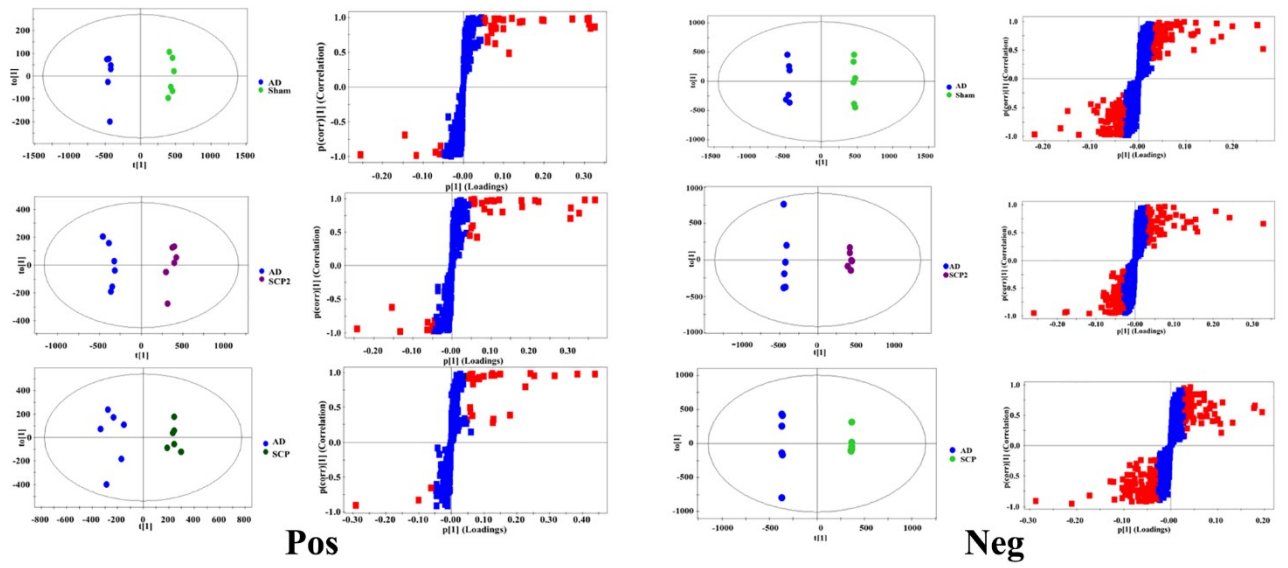
23 5. Fig. S5 in page 7

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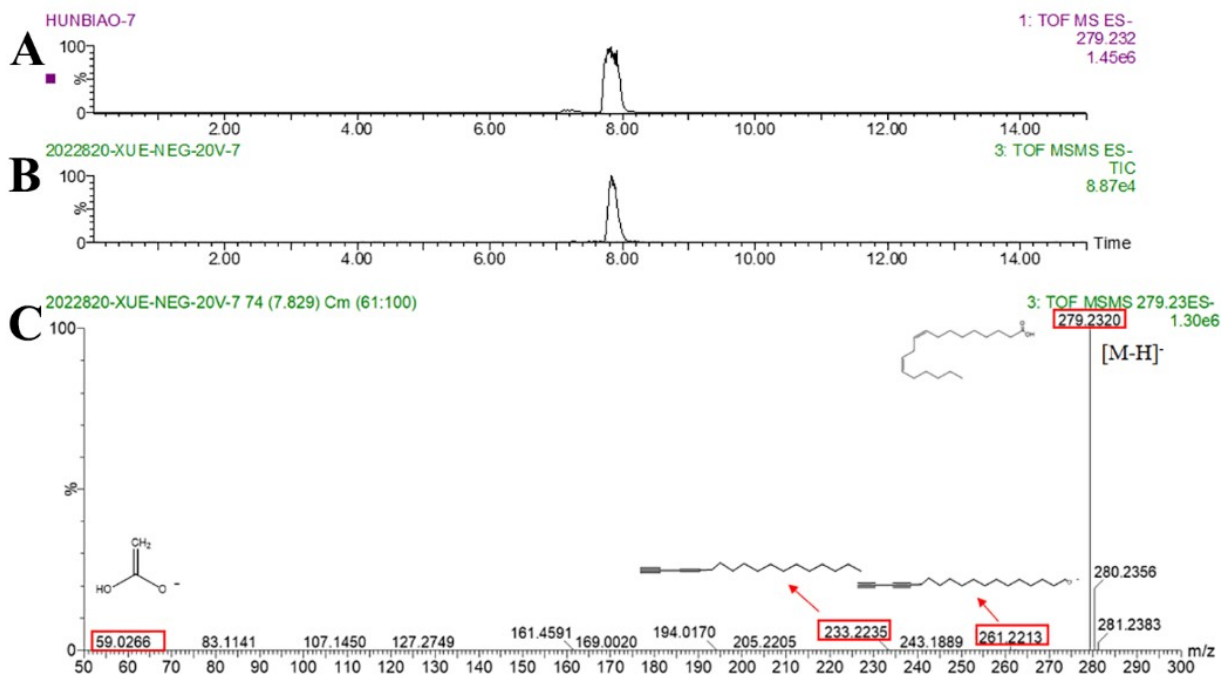
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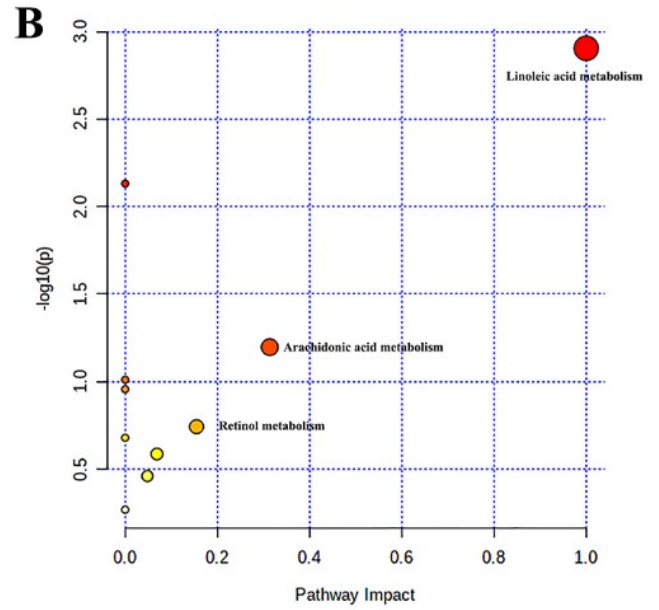
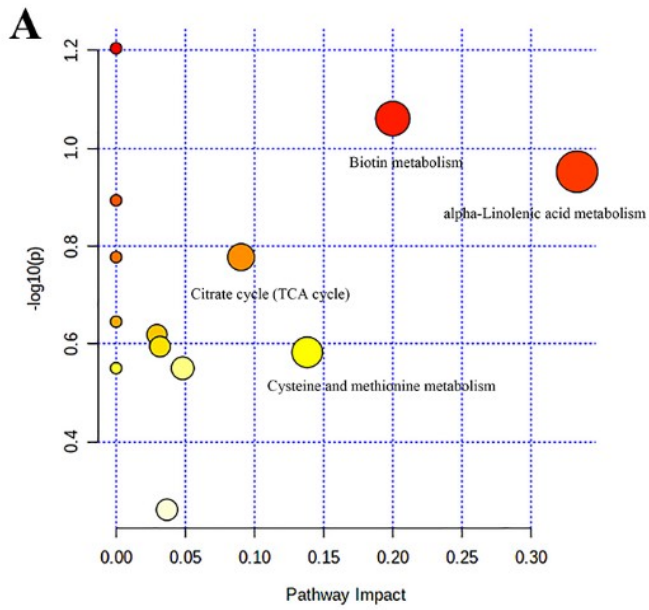
26 Fig. S1 Total ion chromatograms (TIC) of serum and urine samples obtained by UPLC-
 27 Q-TOF/MS in both positive and negative ion mode
 28



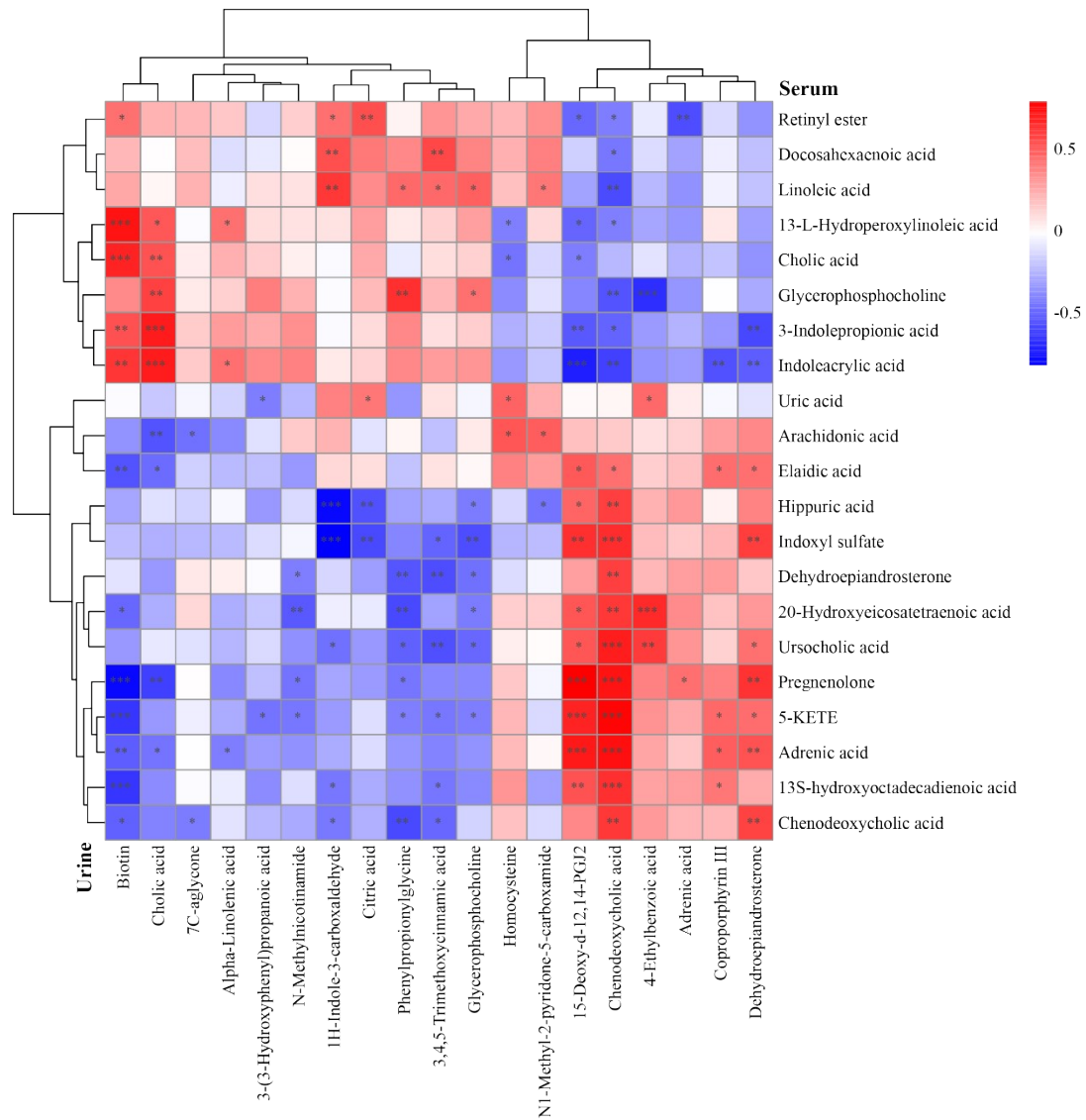
29 Fig. S2 OPLS-DA score plot and corresponding S-polt of serum in positive and negative
 30 ion mode
 31



32 Fig. S3 The UPLC-Q-TOF/MS base peak intensity (BPI) spectrum of reference
 33 standard (Linoleic acid) (A). The extracted ion chromatogram of ion at m/z 279.2320
 34 was shown at (B) and MS/MS spectra from the QC sample in negative ion mode (C) at
 35 collision energy of 20 ev.
 36



37 Fig S4. Summary of the altered metabolism pathways. (A) Metabolism pathway
 38 analysis of urine samples. (B) Metabolism pathway analysis of serum samples. The size
 39 and color of each circle was based on pathway impact value and P-value, respectively.
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42 Fig S5. Heatmap of Spearman's rank correlation coefficients between plasma and urine
43 metabolites.

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