

Supplementary information

Article

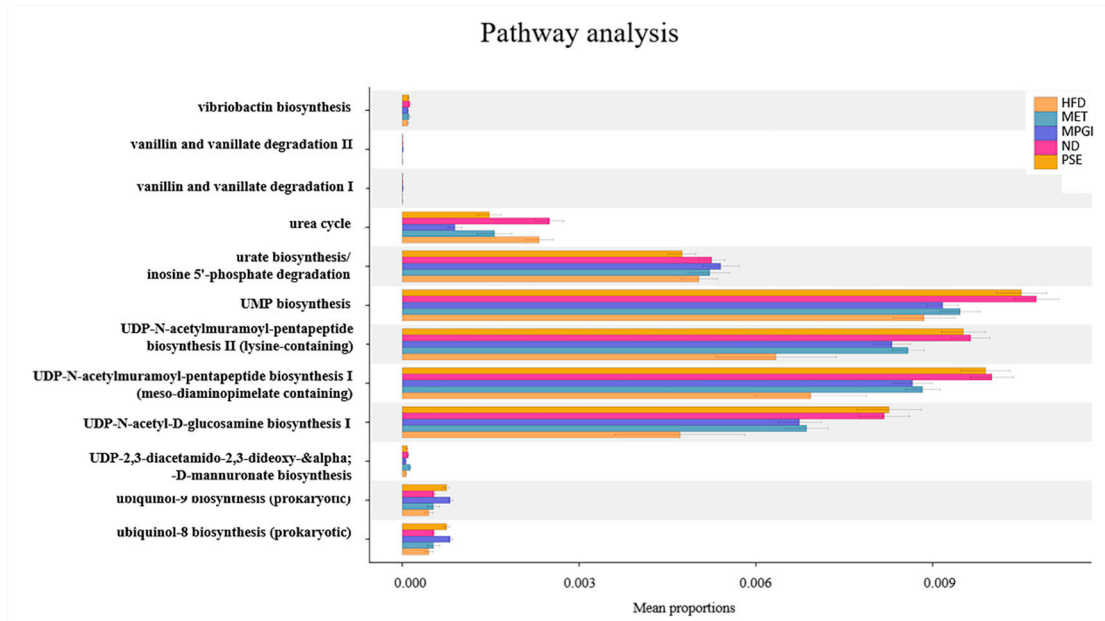
Mixture of Peanut Skin Extract, Geniposide, and Isoquercitrin Improves the Hepatic Lipid Accumulation of Mice via Modification of Gut Microbiota Homeostasis and the TLR4 and AMPK Signaling Pathways

Meijuan Yi ¹, Opeyemi B. Fasina ¹, Yajing Li ¹, Lan Xiang ^{1,*} and Jianhua Qi ^{1,2,*}

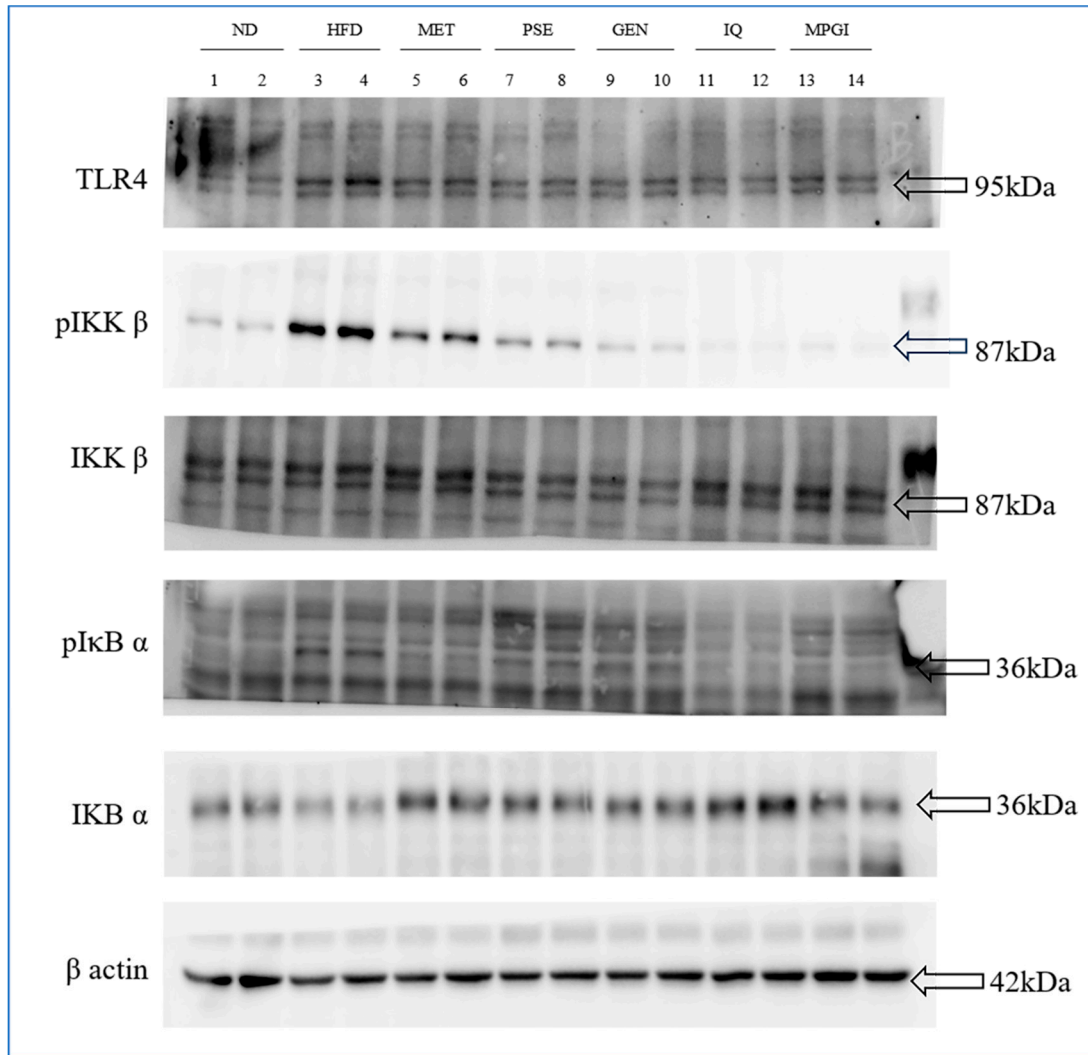
¹ College of Pharmaceutical Science, Zhejiang University, Hangzhou 310058, China; 22119153@zju.edu.cn (M.Y.); fasinaopeyemi@zju.edu.cn (O.B.F.); 12019045@zju.edu.cn (Y.L.)

² Jinhua Institute of Zhejiang University, Jinhua 321299, China

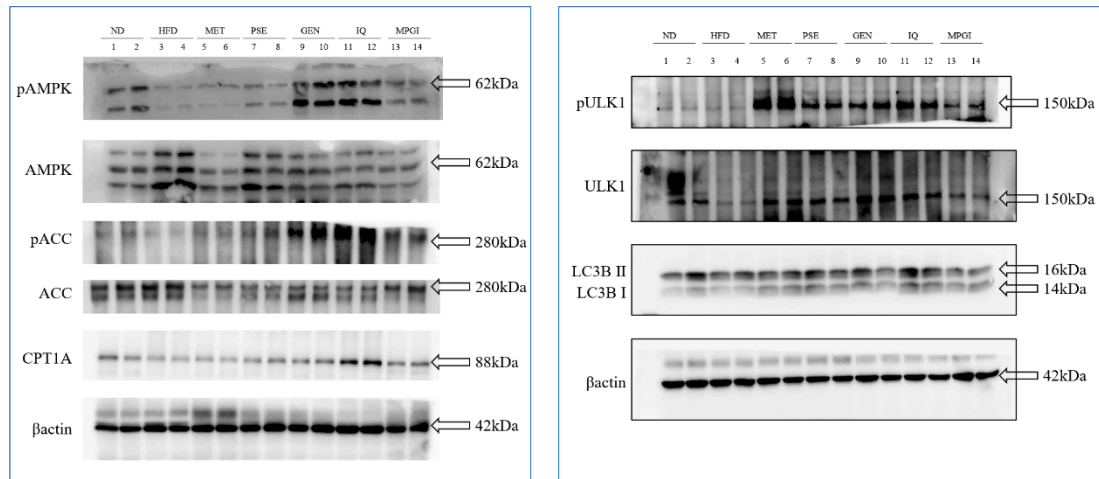
* Correspondence: lxiang@zju.edu.cn (L.X.); qjjianhua@zju.edu.cn (J.Q.)



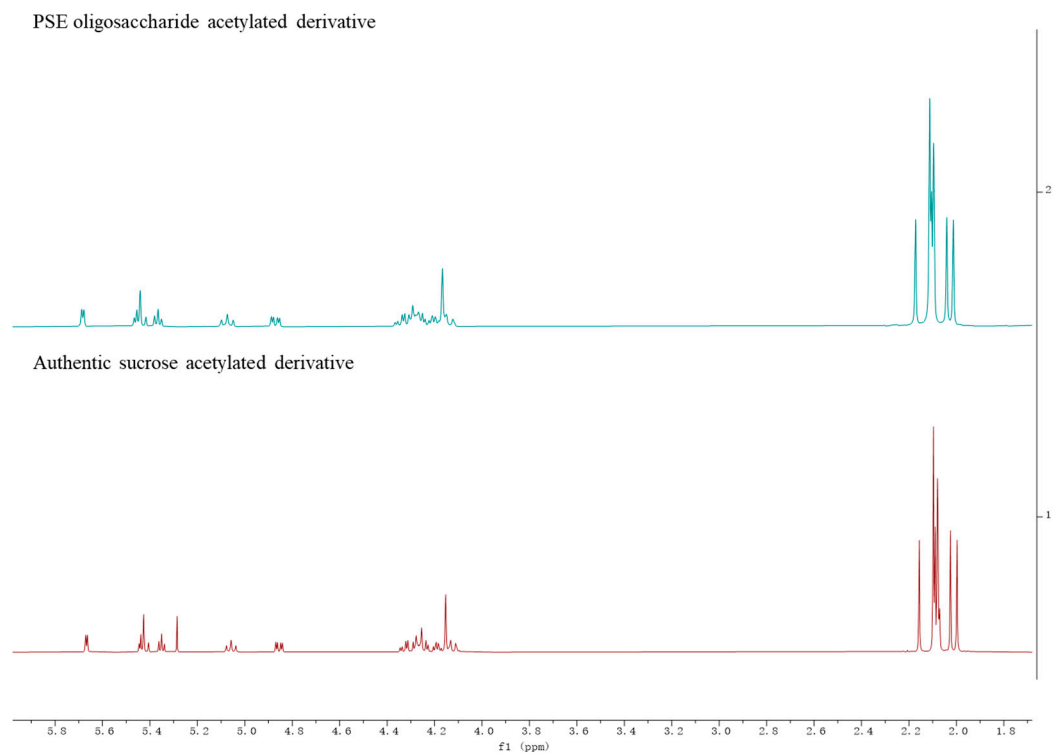
Supplementary Figure S1. Pathway analysis of function prediction for the gut microbiota after administrating MPGI with PICRUSt2 software.



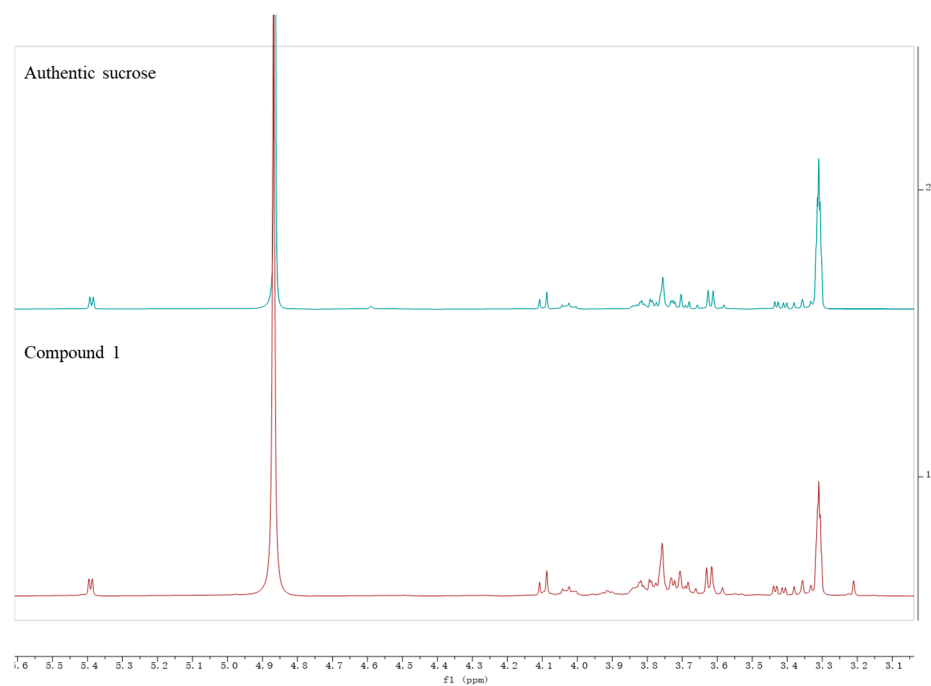
Supplementary Figure S2. Original western blot analysis of Figure 7. Original western blot of TLR4, pIKK β , IKK β , pI κ B α , I κ B α and β actin in liver of mice in Figure 7.



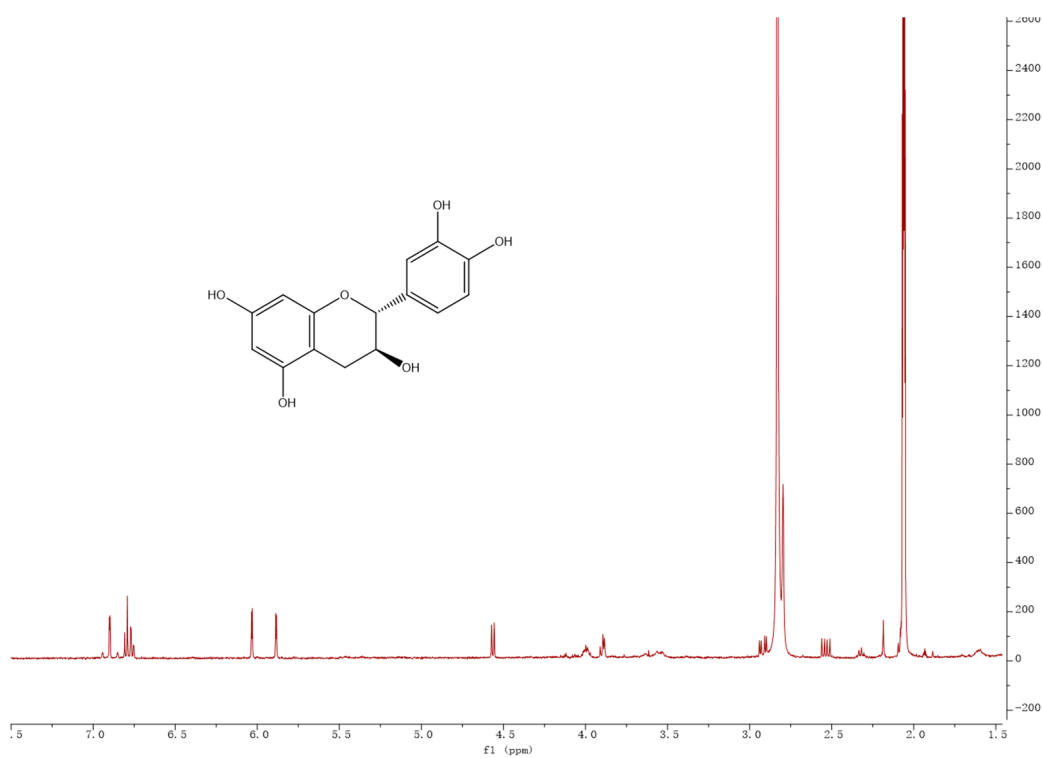
Supplementary Figure S3. Original western blot analysis of Figure 8. Original western blot of phosphate-AMPK, AMPK, phosphate-ACC, ACC, CPT1A and β-actin in Figure 8(A), and phosphate-ULK1, ULK1, LC3B and β-actin of in mice liver in Figure 8(B).



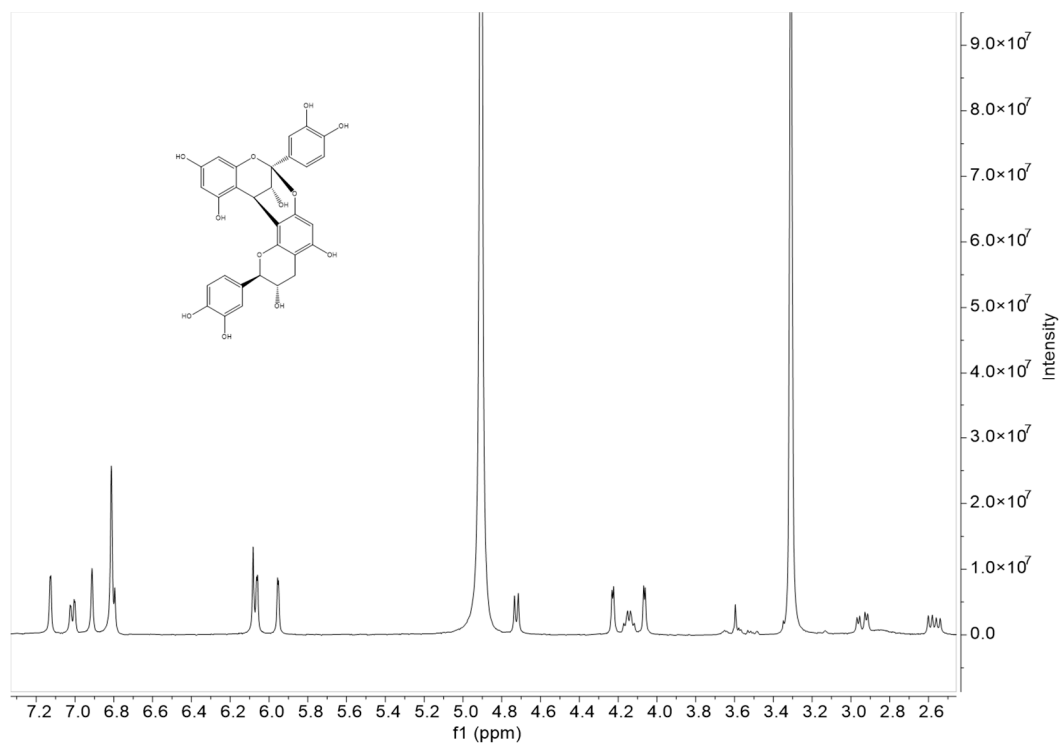
Supplementary Figure S5. Comparison of ¹H NMR spectra of PSE oligosaccharide acetylated derivative with acetylated derivative of authentic sucrose.



Supplementary Figure S6. Comparison of ¹H NMR spectra of Compound 1 with authentic sucrose.



Supplementary Figure S7. The ¹H NMR spectrum of compound 2.



Supplementary Figure S8. The ¹H NMR spectrum of compound 3