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Running title: LPCAT3 deficiency and lipoprotein metabolism

Contributions:

Zhiqiang Li prepared Lpcat 3 KO mice, used PC/olive oil to rescue the animals, measured plasma lipids and lipoproteins, measured lipid absorption in the small intestine and lipoprotein production from the liver, isolated enterocytes and enterocyte membrane, performed all the Western blots and real-time PCRs on the animals or isolated primary cells. Hui Jiang performed all PPAR and LXR experiments. Tingbo Ding performed LPCAT activity analysis. Caixia Lou performed partial plasma lipid analyses. Hai H. Bui and Ming-Shang Kuo performed LC/MS/MS for PC species measurement. Xian-Cheng Jiang, as the corresponding author, designed the whole project, interpreted the results, and wrote up the manuscript.

Conflict of interest:

None

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