Reviewer's report

Title: Chronic Kidney Disease Alters Lipid Trafficking and Inflammatory Responses in Macrophages: Effects of Liver X Receptor Agonism

Version: 0 Date: 21 Apr 2017

Reviewer: UOPING ZHENG

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This is an interesting study examining macrophage lipid intake of cholesterol from LDL and HDL of CKD patients, and as authors claimed that there are no studies evaluating the utility of targeting macrophage cholesterol handling and inflammation.

I have a minor concern about the study. As Liver is the main site of lipoprotein composition, how the current in vitro study using human macrophage cell line and LDL/HDL isolated from CKD patient mimics the LDL and HDL metabolism in vivo with liver functions involved. One positive finding in this study was the low capacity of HDLCKD in accepting cholesterol from cholesterol-enriched macrophages. While HDLCKD were sampled from older people, how relevant is this HDL to CKD. As HDL isolated were frozen first before experiment, would freezing this HDL change its structural and functions.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics
Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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