Reviewer’s report

Title: Influence of phthalates on glucose homeostasis and atherosclerosis in hyperlipidemic mice

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Reviewer: brigitte Le Magueresse-Battistoni

Reviewer’s report:

Environmental pollutants have become of major interest in Public Health because they are suspected to be involved in the etiology of multiple pathologies including in reproduction, metabolism and obesity and in the development of certain cancers. It is thus of high importance to consider all the published data before scheduling new experiments. For example, the authors have considered a single dose of phthalate which has no relevance in terms of risk assessment. Also, they do not explain why they used female mice. They have no positive controls. They performed GTT and IST after 2 weeks of high fat diet with/without DEHP. Why not after 12 weeks? It is also surprising that 18-week old mice weighed more or less 20 g after 12 weeks of high fat diet. Definitely a group with mice fed a standard diet is missing. What about gonadal pad weights? There is no certainty as to whether or not mice have indeed been exposed to the DEHP administered. The authors should at least checked hepatic markers.

Level of interest: An article of limited interest

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests: 

I declare that I have no competing interests