Reviewer's report

**Title:** Adiponectin, chemerin, cytokines, and dipeptidyl peptidase 4 are released from human adipose tissue in a depot-dependent manner: An in vitro system including human serum albumin

**Version:** 1  **Date:** 15 August 2013

**Reviewer:** José María Moreno-Navarrete

**Reviewer's report:**

In this manuscript, Svensson et al. described that several adipokines and cytokines are released from human adipose tissue in a depot-dependent manner. These are not novel findings. They also recommended the supplementation of incubation medium with HSA rather than BSA to minimize induction of cytokine release.

In my opinion the main weakness of this study is the increased LPS levels showed in BSA. These experiments should be repeated in a new BSA batch, with lower LPS concentration.

**Major comments**

- Adipose tissue necrosis or damage in all exploratory incubations should be tested, using for instance lactate dehydrogenase (LDH) test. This test is a useful assay to measure tissue damage, measuring LDH activity in media.
- Since LPS concentration is around 10000 pg/ml in BSA compared with 6 pg/ml in HSA, three negative control treatments (with 10000, 10 and 1 pg/ml of LPS) should be added.
- Mediators of NFkappaB pathway should be studied deeply, to investigate the effects of BSA-LPS and LPS in adipose tissue explant.
- Cytokines gene expression should be measured to explore cytokine production, and not only cytokine release.
- How could the authors explain the increase LPS levels in BSA?? This should be discussed.

**Level of interest:** An article of limited interest

**Quality of written English:** Acceptable

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

I declare that I have no competing interests