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: 11 October 2013

Reviewer: Christa Buechler

Reviewer’s report:

Major Compulsory Revisions

“We found that release of IL-6, unlike the other cytokines we studied, was similar in the subcutaneous and visceral depots, although it tended to be higher in visceral adipose tissue.”

IL-6 is increased in portal vein compared to systemic blood (see review article by Item and Konrad, 2012) and visceral fat released IL-6 is crucially involved in insulin resistance. The authors have to explain why IL-6 is similarly released from sc and vis fat in their studies.

Continuous release of adipokines from adipose tissues suggests a continuous increase in medium. This is not the case for adiponectin and omentin which increase until 2 h and stay constant up to 8 h. IL-6 is, however, continuously elevated. Please explain.

The authors measured protein in supernatants and not synthesis / release.

In principle there are no major differences in HAS and 0 albumin incubated cells. Please explain why incubation with HAS was chosen for subsequent experiments.

Are there differences in adipokine / cytokine levels related to gender of the donors. Is adiponectin higher in adipose tissues of females?

The authors have to show whether number of immune cells and / or macrophages is increased in visceral fat depots.

Level of interest: An article of importance in its field

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