Reviewer's report

Title: Short-term periodic consumption of multiprobiotic from childhood improves insulin sensitivity and prevents development of adiposity in adult rats with glutamate-induced obesity

Version: 1 Date: 8 May 2014

Reviewer: stefan zorad

Reviewer's report:

Major Compulsory Revisions

The paper by Oleksandr Savcheniuk is dealing with interesting subject. However such kind of study is suffering from several shortcomings:

1. When effect of diet is studied food and water intake must be determined
2. Determination of caloric food intake is absolutely necessary in order to reveal whether the positive metabolic changes are due to changed diet or simple due to decreased caloric intake
4. It is not clear how the animals were sacrificed - by cervical dislocation in anesthesia or by decapitation without anesthesia?
5. Why determination of plasma leptin is missing?
6. How was leptin determined in adipose tissue – description of the method is missing

Level of interest: An article of limited interest

Quality of written English: Acceptable

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:

'I declare that I have no competing interests'