Reviewer's report

Title: Short-term glutamine feeding decreases lung inflammation and the receptor for advanced glycation end-products (RAGE) expression in direct acute lung injury in mice

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Reviewer: Samuel Valenca

Reviewer's report:


2) There is no support in the paper that RAGE is regulated by glutamine in challenge-induced acute lung injury.

3) There are too much texts reporting literature with no references in introduction section.

4) The authors need to write approval protocol number from ethics committee.

5) The authors killed mice with carbon dioxide asphyxiation. This is an erroneous method for those are studding mouse lung. I realize that a limitation of the study, and the authors should address this point in the discussion section.

6) The English language and grammar should be improved.

7) I observed all mice died after challenge (Figure S1). What the importance of glutamine in this case? I realize that your challenge is very hard. I suggest the authors to repeat experimental procedures with reduced dose of LPS/Acid. By the way, what kind of challenge was that, from Figure S1?

8) Serum IL-6 and TNF-# concentration, BALF RAGE, IL-1#, IL-6, and TNF-# content in ALI-challenged mice should be shown in unchallenged mice also.

9) mRNA abundances of the lung in ALI-challenged mice should be shown in unchallenged mice also.

10) The authors claim to be this first study about glutamine and ALI. See the follow studies:


Maybe about acid-induced lung injury the authors are correct.

11) There is no direct evidence of RAGE over acute lung injury model as proposed by authors.
12) No make sense kill the mice after 3 h of injury since survival is so far.

**Level of interest:** An article whose findings are important to those with closely related research interests

**Quality of written English:** Needs some language corrections before being published

**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