Reviewer's report

**Title:** Comparison of the Effects of Moderate and Severe Hypercapnic Acidosis on Ventilation-Induced Lung Injury

**Version:** 5  **Date:** 31 December 2014

**Reviewer:** Maria JC Carmona

**Reviewer's report:**

BMC-Anesthesiology: “Comparison of the effects of moderate and severe hypercapnic acidosis on ventilation-induced lung injury”

Yang et al compared the effects of moderate and severe hypercapnic acidosis on high-pressure ventilation-induced inflammatory injury and evaluate the role of the NF-KB pathway in this process. The topic is original and important, considering the potential protective effects of hypercapnic acidosis on lung injury and the uncertainty regarding appropriate PaCO2. The authors have addressed all my comments and the paper is clear and worth to publication.

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

**Quality of written English:** Acceptable

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