Reviewer’s report

Title: Public Health Impact of Strain Specific Immunity to Borrelia burgdorferi

Version: 1 Date: 3 July 2015

Reviewer: Ai Takano

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Minor Essential Revisions

In the manuscript by Khatchikian and c-authors were try to clarify the significance of type specific immunity against Lyme diseases infection. The manuscript is interesting. I have some comments as follows;

1, Background is better to write more informatively. Since some readers did not know your study background, they did not understand why the authors paid attention to only human OspC type but not ticks. Moreover, are there any related studies in this field, e.g. other infectious diseases?

2, In the methods, how the author selected 200 patients for this study? In the previous manuscript, more than 200 patients were listed.

3, Page Line 73-75, it is better to add the reference.

4, In the discussion Line 186-188, is there any evidence that difference was dependent on only ospC type? I could not find that description on reference 6.

5, In the discussion Line 201-203, I wonder it is better to describe the difference of OspC type between tick population and human skin population that described in reference 6.

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.