Reviewer's report

Title: TLR4 Modulates Inflammatory Gene Targets in the Retina During Bacillus cereus Endophthalmitis

Version: 0 Date: 15 Oct 2017

Reviewer: Daniyar Dauletbekov

Reviewer's report:
The paper identified TLR4 dependent changes in retinal transcriptome during B. cereus intraocular infection. The identified upregulated genes could serve as potential targets for intervention in endophthalmitis caused B. cereus. The paper would benefit from following minor corrections prior to publication.

1. Background, could you please clarify whether B. cereus is Gram-positive/negative.
2. Background, line 19 "recapitulated in a mouse model", please provide reference.
3. Could you keep uniform throughout the paper the writing of genes/protein, for example, Ccl3 page 29 line 31 and page 12, line 23.
4. p.10, line 18-10 "While IL-6 has also been shown to be anti-inflammatory based on its effects on TNFα and IL-1β expression" could you please provide reference.
5. p. 8, line 12-13 "Inflammatory mediators involved in neutrophil recruitment and pathogen recognition and clearance were also significantly upregulated 5-fold or greater. " Which method was used to detect the difference?

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.
Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.
Yes
Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.
Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.
I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:
Acceptable

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