Reviewer’s report

Title: Opera music induced prolongation of cardiac allograft survival and generation of regulatory CD4+CD25+ cells in a murine model

Version: 1 Date: 12 December 2011

Reviewer: Daiki Iwami

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Comments to Author

In this paper, the authors show opera music induces prolonged allograft survival in fully-mismatched murine cardiac transplant model. In addition, they showed it is induced by generation of regulatory cells especially CD4+CD25+ Tregs (which also express Foxp3) by adoptive transfer study. However, it has several points to be clearer for publication in this journal.

Major Compulsory Revisions

What is the mechanisms opera music inducing prolongation of fully-mismatched cardiac allograft in the recipients? The authors don’t either show the data or discuss the mechanism in depth especially about the effect of listening to the music on immune systems, such as correlation with the up-regulation of IL-10 and suppression of pro-inflammatory cytokines.

How about dose-dependency of exposure to the opera music, such as volume of opera music or duration of exposure to the music?

I wonder whether mice can generally distinguish the good music (opera) and simple noisy sound.

Minor Essential Revisions

Co-authors are missing who belongs to institution “e” and “f.”

In page 10, the sentence “Among these, immune regulation-control of alloimmune responses by regulatory cells-is considered one of the most important.” Makes no sense grammatically.

Level of interest: An article of limited interest

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.