Reviewer's report

Title: Increase of Telomere Length in Lymphocytes T of Adults of different ages, stimulated with Concanavalin A.

Version: 1 Date: 6 March 2013

Reviewer: Lothar Rink

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Review of manuscript by Murillo-Ortiz et al. for BMC Geriatrics Research

The manuscript described the influence of age and stimulation on telomere length and proliferation capacity. The manuscript adds two new points to the current knowledge. However, also the manuscript is interesting the manuscript needs some minor revisions and correction in spelling before publication.

Critique in detail (minor points):

1. The authors use “lymphocytes T, T lymphocytes and T cells”, this is confusing for non immunologists and especially lymphocytes T is uncommon. All terms should be changed to T cells throughout the manuscript.

2. Results first paragraph: The authors must change “lymphocytes” in the first sentence to “PBMC”, since they did not purify lymphocytes, they used PBMC, which contain monocytes also!

3. Results second paragraph: The authors mixed up young and old group. It must be “while no changes were observed in cells from group O”!

4. The discussion must be rigorously shortened, since now many points not under investigation in the manuscript were discussed.

5. Figure 1: p-values should be indicated in the figure and not in the legend. SE must be shown in the figure. Although it is indicated in the legend it is missing in the figure.

6. The manuscript should be corrected by a native speaker.

In conclusion, the manuscript is acceptable after minor revision.

Level of interest: An article of importance in its field

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.