Brasília, September 7, 2018.

To

Vineeta Bajaj, Ph.D.

Editor, JoVE

Ref. JoVE57985

Dear Editor:

Please, find the revised JoVE57985 uploaded manuscript and the new high definition video downloaded at the Journal website and, thus addressing to each of the Editorial comments.

**Answers to the Editorial Comments:**

1. The Journal style is retained.
2. The Corresponding author addressed to all the specific comments with words and sentences marked red in the text article.
3. The redundancies were removed from the protocol section and from the discussion. Now, new sentences marked red in the manuscript describe all specific details about the carried out experiments.
4. Please, find new sentences (marked red) in the current download version of the protocol, mainly at steps 1 to 5. Accordingly, the sentences were re-written aiming at someone interested in the reproduction of the experiments in the protocol, and now all the details about collection of biological samples, volumes and concentrations, time of exposure, centrifugations, etc., are included.
5. The formatted Protocol is now seven pages long.
6. The extensive rewriting of the protocol critical sections 1 to 10 secured agreement between the video and the manuscript.

**Video Production Comments:**

* The length of the video increased from 16:12 to 18:27 min but it does not exceed the JoVE’s video length limit, according with the instructions to authors.
* After the inclusion of all the details in the protocol sections we proceeded with the extensive cuts at the introduction (last paragraph) and at the discussion (>25% cuts).
* 0:57 an Ethics disclosure card naming the official body which provided oversight is included at the position suggested by the Editor.
* Frame size/proportion issues: The suggested blocks of images, which had black borders on the top and bottom of the frame were enlarged, and now fill the frames.

Audio issues

* Although in the lack of a professional audio equalizer, the audio was almost totally recorded once more from the beginning to the end of the video and the narration is readily audible.

Editing issues

* 9:35-11:06 the representative results section now appear with narration.
* 8:18, 8:21 the jarring effects are smoothed out.

**Other video comments**

1. Please, find out the title is changed as per the text.
2. 00:08 definitely, the word Doctor removed from the text box.
3. An ethics statement for human and animal study is included after the Protocol announcement.
4. The video was worked up accordingly with the direction in the manuscript. For example, the quantities of biological samples are specified in the sections’ steps, as requested.
5. 9:27 the VOs were included.
6. Representative results now show narrations along each figure length.
7. The discussion is now rather short (>25%) in comparison with the previous version.
8. As a result of much narration of details and entire sentences, as suggested by the video Editor, I cannot make the video shorter than 18:27 min in length but within the limit set forth in the instructions for authors.

I hope the high definition new version of the JoVE57985 video is suitable for publication, despite of the adverse local conditions for the video production, in lack of a permanent laboratory set up. However, I will not hesitate to conduct any further task in case that the JoVE’s Editor suggests further improvement of the video and article publication.

Sincerely,

Antonio Teixeira

Corresponding author.