**Response to Editor**

We would like to thank the editor for the careful re-review of the modified paper. We have carefully read and addressed all the comments and detailed responses are given below:

1. Please take this opportunity to thoroughly proofread the manuscript to ensure that there are no spelling or grammar issues.

*Response*: This has been done with a few small corrections made.

2. Please do not highlight notes for filming.

*Response*: We have deleted the highlights for the notes.

3. Please split some long steps into two or more sub-steps so that each step contains only 2-3 actions and is less than 4 lines.

*Response*: We have split the long steps into more sub-steps. This can be found in the revised PROTOCOL section.

4. For steps that are done using software, a step-wise description of software usage must be included in the step. Please mention what button is clicked on in the software, or which menu items need to be selected to perform the step.

*Response*: In our revised manuscript, we decided to share and upload the 3D printable STL file of each component of our proposed robotic manipulator as a supplementary material, rather than describing the detailed drawing steps of each part in a CAD software. This is for the following reasons: 1) the joints we proposed have complex shapes. It will be very difficult and will take many pages and figures to describe step-by-step in terms of how to draw each component; 2) With the STL files uploaded, the readers will be very easily able to follow and reproduce the rest of the protocol for assembly, and modify the design if needed. Sharing the STL files therefore makes the protocol much more valuable.

As a result, each component of the robotic manipulator is provided in the revised manuscript. The protocol starts from 3D printing of these parts and focuses on the assembly and implementation methods. These changes can be found in the revised PROTOCOL section with new uploaded supplementary material for each of the STL files. Additionally, figures for all the links have been combined into one figure with unnecessary information deleted as the e-files are already provided.

5. Steps 1.1-1.4: These steps cannot be filmed unless detailed software usage is provided.

*Response*: please refer to the response for point 4.

6. For each figure, please provide a short description in addition to the figure title in the Figure Legend.

*Response*: a short description in addition to the concise figure title in Figure Legend has been added for each figure. This can be found in the revised FIGURE AND TABLE LEGENDS section.

7. Please ensure that the references appear as the following: Lastname, F.I., LastName, F.I., LastName, F.I. Article Title. Source. Volume (Issue), FirstPage – LastPage, (YEAR). For more than 6 authors, list only the first author then et al.

*Response*: All the reference items have been checked and corrected.