

Paranjape et al., Response to Editor/Reviewer (in red):

Editorial comments:

1. Please see the attached ithenticate report indicating significant textual overlap (>50% text matches your previous JoVE publication). Please use ALL original text to rewrite the indicated portions of the abstract, introduction, protocol, results, and discussion. For the protocol section, you may reference the steps described in your previous JoVE publication instead of rewriting as long as they are part of section that is not be filmed.

The manuscript has been reworded and the amount of textual overlap should now be negligible.

2. Figure 1A: Please remove commercial name (Xona).

Done

3. Figure 2A: Please remove the commercial name "StemPro™" and use a generic name instead.

Done

4. Fig 3A: Add scale bar to the middle panel.

Fig. 3A is one image encompassing the axonal compartment, barrier region, and somatic compartment. A scale bar is included in the lower left corner.

5. Reuse of figures requires explicit permission from original publishers or copyright holders (Xona in your case).

Please see the attached letter from Xona Microfluidics, LLC granting permission to reuse figures from previous publications and from Xona's website.