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Dear Dr. Cao,

Thank you for forwarding the reviews and for the possibility to submit a revised protocol to *JoVE*. We have revised our manuscript entitled **“Dissection of *Drosophila melanogaster* flight muscles for Omics approaches”**, and I have submitted all associated documents.

We have made significant changes to the text, correcting grammar and spelling, removing commercial language, revising confusing steps in the protocol and expanding the Representative Results and Discussion sections as requested by the reviewers. We have expanded the Table of Materials to cover all materials used in the protocol and to generate the data presented in Representative Results. We have expanded multiple sections in the Supplemental Materials and Methods, discussing various equipment and dissection techniques in greater detail. We added new panels to Figures 2 and 3 in the Fire LUT to help visualize differences in GFP intensity, and have increased the “N” for testing yield between RNA isolation kits in Figure 4. We have generally addressed all reviewer comments, and include a point-by-point response for your consideration.

I hope this revised version of our manuscript meets *JoVE* publication standards, and I look forward to working on the accompanying video protocol.

With best wishes,

Maria Spletter