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Paul,

Please find enclosed our revised manuscript "The role of TORC1 in muscle development in *Drosophila*", manuscript number SREP-14-10803A

We have revised the manuscript to address the concerns brought up in the second round of review. My team is pleased that the reviewers agreed with the majority of our reply. The minor points suggested in this round were easily rectified but the question regarding muscle morphology has proven more challenging. We have examined fly muscle morphology in a cursory manner, and have not observed any obvious morphological changes. Our team decided that based on these data, we did not feel comfortable making strong conclusions ruling in or out morphological changes associated with muscle *Raptor* that may be subtler than our current experiments have shown.

We have begun a detailed analysis of the morphological, transcriptional and biochemical changes in muscles from both *Raptor* knockout/knockdown mice and flies, but do not anticipate completing these studies for several months. If it is decided that adult fly morphological data are absolutely critical to the current manuscript, then we are willing to provide what we can over the next four weeks, but we strongly believe that this question deserves a more comprehensive answer than we are likely to be able to provide in the very near future.

Please find enclosed both a detailed point-by-point response to the reviewer comments, as well as the updated manuscript and figures. Thank you again for considering our revised work.

Best Regards,



Dave Bridges, Ph.D.

Assistant Professor

University of Tennessee Health Science Center