**Editorial comments:**

We thank you for reviewing our manuscript, and for providing supportive comments and suggestions that have helped us to improve the manuscript. We thank you for the consideration you have for our work. We have considered your comments and made amendments when necessary in the revised manuscript. We appreciate your further perusal of the revised manuscript. We have provided our responses to your comments that are in **bold**. *Amended sentences are in italic with the additional wordings in red.*

**1. Please include typical numbers for Vmax and sprint speed in the Protocol itself.**

The following sentences were added to the manuscript:

*"Note: Typically, Vmax was 28.8±3.7 m/min."* Page 5, line 190.

*"Note: Typically, sprint velocity was 42.1±5.5 m/min."* Page 4, line 147.

**2. Please provide a protocol (or reference) for the low intensity training mentioned in the results.**

The following steps were added to the protocol:

1. *"Low intensity training*
   1. *Place the mice on individual lanes on the treadmill (0° inclination) and submit them to the following protocol:*
      1. *Warm up mice for 5 min at 4.8 m/min followed by 5 min at 7.2 m/min.*
      2. *Set the speed of the continuous running session to 40% of the previously determined Vmax.*

*Note: Typically, continuous running velocity was 9.9 m/min.*

* + 1. *Train mice for 40 min.*
    2. *Perform this training 3 times per week with preferably 48 h between training sessions.*
    3. *Use cotton swabs to encourage mice to run as a complementary method to electric shocks."* Page 5, lines 205-220.

**3. Figure 7: Please include a space between all values and units (e.g., KCl 100 mM).**

Done.

**4. Please ensure you have included all Figures in this revision (the last one only included the revised Figures 3 and 8).**

Done.