

Peer Review

Review of: "The Intergeniculate Leaflet Plays a Key Role in Sex Differences in the Biological Rhythm of Locomotor Activity in M_4 Muscarinic Receptor Knockout Mice"

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Manuscript is focused on the role of muscarinic signalling in the regulation of circadian rhythms in mice with an impact on the intergeniculate leaflet {Igl}.

I recommend publishing the MS after incorporation of the following advice:

- The role of Igl in humans should be discussed, and possible differences between Igl in mice and humans should be addressed in the discussion.
- The MS is difficult to read because of too many abbreviations. I recommend incorporating a picture of the brain showing which areas were investigated. The number of abbreviations should be decreased.
- Figure 3 is extremely difficult to understand; all abbreviations in the legend must be explained. The authors should show the LD regimen in a better, more easy-to-understand way in the figures.
- Names of chapters should not be abbreviations, e.g., 3.2.5. SPVZ, 3.2.6. PHA, and others; the full name of the brain structure should be used.
- In graph legends, it should be written what is presented; I suppose that it is the average and SEM. Both directions of SEM should be shown in the histogram, above as well as below the mean.

Declarations

Potential competing interests: No potential competing interests to declare.