

Peer Review

Review of: "The Intergeniculate Leaflet Plays a Key Role in Sex Differences in the Biological Rhythm of Locomotor Activity in M₄ Muscarinic Receptor Knockout Mice"

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The document presents research on the role of the intergeniculate leaflet in sex differences in biological rhythms of locomotor activity in M₄ muscarinic receptor knockout mice. This work seems to be in continuation of the authors' previous studies on M₄R changes in response to biological rhythms and light. It is a professionally performed study. However, there are some difficulties in understanding and following the introduction section that I suggest be rewritten. Some of the charts seem to need revision; for instance, figure 3, SPVZ, looks like LD and DD wild type and KO have a meaningful difference, but it is not shown. Furthermore, a question was raised for me here: what was the role of KO animals in this study? The authors have not performed any locomotor study here to show the "lack of" M₄R function. I think there might be a need for some more details on the results of the study.

Declarations

Potential competing interests: No potential competing interests to declare.