

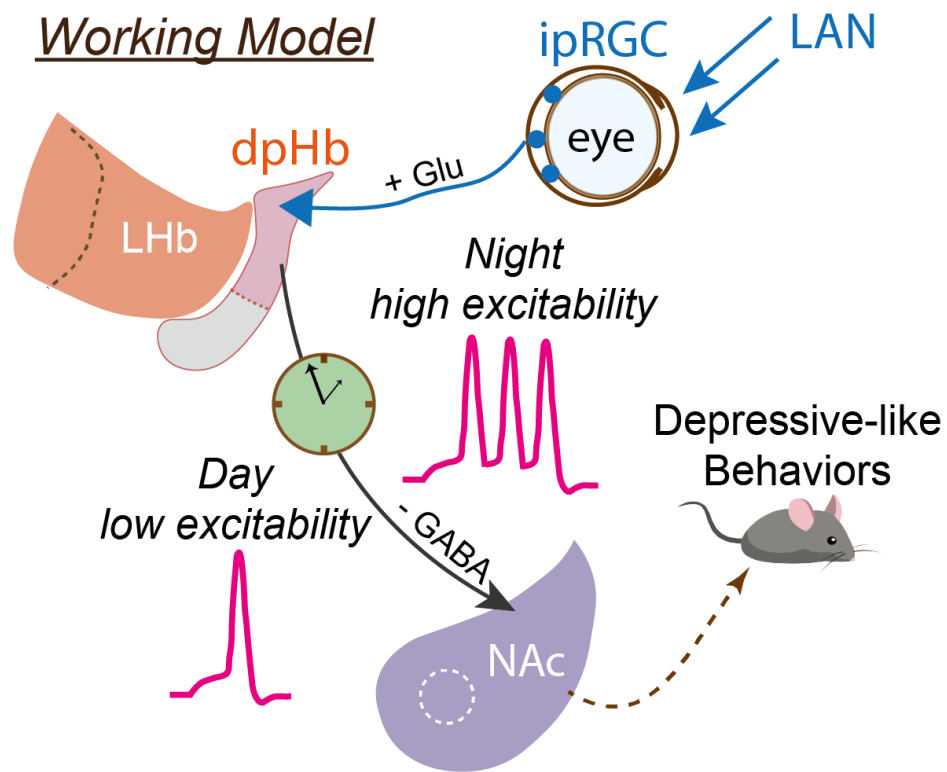
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A circadian rhythm-gated subcortical pathway for nighttime-light-induced depressive-like behaviors in mice

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Supplemental Figure



Supplementary Figure 1: Working model for depressive-like phenotypes induced by LAN. IpRGCs in the retina are excited by nighttime light and subsequently activate neurons within the dorsal part of the pHb. IpRGC-recipient pHb neurons primarily project to the NAc with lower excitability during the day but higher excitability at night, thereby functioning as a “gate” to preferentially conduct light-related signals at night and release inhibitory inputs onto the NAc. Such gated ipRGC-dpHb-NAc pathway is necessary for the depressive-like behaviors induced by chronic exposure to LAN.