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(54) Title: METHODS AND SYSTEMS FOR MODIFYING EMPATHY BY MODULATING TYPE 2 THETA OSCILLATIONS

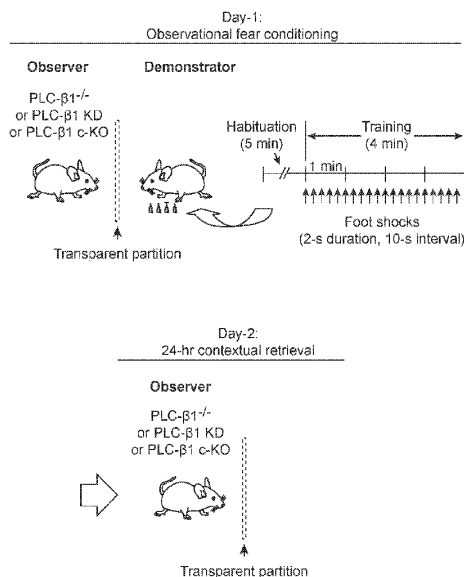


FIG. 1A

(57) Abstract: The disclosure pertains to methods for modifying empathy in a subject, such as a human, by modulating type 2 theta oscillations in a brain region of the subject. The methods include increasing empathy in a subject, such as a human, by increasing type 2 theta oscillations in a brain region of the subject, thereby increasing empathy in the subject. The human subject may have a psychiatric or neurological condition that causes suboptimal empathy. Modulating type 2 theta oscillations in a brain region of a subject can be accomplished by optogenetic treatment, electric stimulation of a brain region, administration of a pharmaceutical drug, or a combination thereof. Also provided are systems for performing the methods disclosed herein.

[Continued on next page]

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