

## Accepted Manuscript

Title: The effect of left frontal transcranial direct-current stimulation on propranolol-induced fear memory acquisition and consolidation deficits

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## Research highlights

- Blockade of  $\beta_1$ -adrenoceptors impaired acquisition and consolidation of fear memories.
- Anodal stimulation restored propranolol-induced contextual acquisition deficit.
- Pre-training anodal application produced a similar response in cued conditioning.
- Cathode reversed propranolol-induced contextual acquisition/consolidation deficits.
- Cathodal stimulation only reversed propranolol-induced cued acquisition deficit.

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