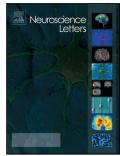
# Accepted Manuscript

Title: Inhibiting self-justification for dishonesty with noninvasive brain stimulation

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 PII:
 S0304-3940(18)30170-8

 DOI:
 https://doi.org/10.1016/j.neulet.2018.03.001

 Reference:
 NSL 33460

To appear in: Neuroscience Letters

 Received date:
 10-12-2017

 Revised date:
 14-2-2018

 Accepted date:
 1-3-2018

Please cite this article as: Qian Cao, Xiaomin Niu, Inhibiting selfjustification for dishonesty with noninvasive brain stimulation, Neuroscience Letters https://doi.org/10.1016/j.neulet.2018.03.001

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# ACCEPTED MANUSCRIPT

## Inhibiting self-justification for dishonesty with noninvasive brain stimulation

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# Highlights

- Analysis of neural correlates of self-justification for dishonesty.
- Anodal tDCS over rVLPFC increased 35.04% full honesty and decreased 21% high claims.
- rVLPFC modulates genuinely (dis)honesty by inhibiting self-justification for dishonesty.

### Abstract

People derive value from self-justifications by allowing themselves to lie for selfinterest while feeling honest. This study explores, with the use of transcranial direct current stimulation (tDCS), whether ventrolateral prefrontal cortex (VLPFC) could modulate genuine (dis)honesty by inhibiting self-justification for dishonesty. A total of 149 participants complete a die-in-a-cup task, in which they were asked to roll a sixsided die placed in an opaque cup twice but to report the first roll only. The experimental results show that anodal tDCS over right VLPFC increased 35.04% full honesty and decreased 21% high claims, resulting in the cumulative distributions of reported die rolls in the anodal group deviate from *justified dishonesty* benchmark and cluster around *full honesty* benchmark. These results add to the growing literature on neuronal mechanisms of genuine (dis)honesty by demonstrating that increasing honesty after anodal tDCS over right VLPFC is based on the mechanism of inhibiting selfjustification for dishonesty.

**Key words**: self-justification; dishonesty; brain stimulation; ventrolateral prefrontal cortex

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