




Retraction Note: Knockdown of long non-coding RNA TUG1 depresses apoptosis of hippocampal neurons in Alzheimer's disease by elevating microRNA-15a and repressing ROCK1 expression

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Retraction note:

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The Editor-in-Chief has retracted this article. After publication, concerns were raised regarding potential repetitive graphic elements within and between various panels in Fig. 2a and b. In addition, a number of PCR primers in Table 1 appear to be incorrect. A further check has revealed repetitive background features in the western blots presented in Figs. 3b and 6a. The authors have not provided the full raw gel images or evidence of ethics approval upon the journal's request.

The Editor-in-Chief therefore no longer has confidence in the presented data.

None of the authors have responded to any correspondence from the publisher about this retraction notice.

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The original article can be found online at <https://doi.org/10.1007/s00011-020-01364-8>.

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