

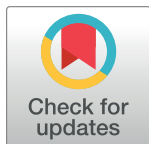
RETRACTION

Retraction: Vault RNAs partially induces drug resistance of human tumor cells MCF-7 by binding to the RNA/DNA-binding protein PSF and inducing oncogene GAGE6

The PLOS ONE Editors

Following the publication of this article [1], concerns were raised regarding results presented in Figs 1 and 3. Specifically,

- In Fig 1A, when adjusting the color levels to increase contrast, smears are visible in the background of the vtRNA1-2, vtRNA1-3, and vtRNA2-1 results.
- In Fig 1D there appears to be a vertical discontinuity between the PSF and DBD lanes, suggestive of a splice line.
- The following results presented in Fig 3B of [1] appear similar to results previously published in [2] under a [CC-BY-4.0 DEED](#) license by different authors, and results subsequently published in [3] by different authors:
 - o The Fig 3B MCF-7 EdU panel (left) in [1], the MCF-7 PSF^{KD}/vtRNA1-1 EdU panel (left) in [1], and the Fig 5A mimics PDGF-BB+ EdU panel in [3] when rotated 180°.
 - o Fig 3B MCF-7-vtRNA 1-1 panels (left) in [1], Fig 4A MG63 panels in [2], and Fig 5A miR-NC PDGF-BB + panels in [3] when rotated 180°.
 - o Fig 3B MCF-7 PSF^{KD}/vtRNA1-1 panels (left) in [1] and Fig 5A mimics PDGF-BB+ panels in [3] when rotated 180°.
 - o Fig 3B MCF-7-PSF^{KD} (left) panels in [1] and Fig 5A Vehicle PDGF-BB-panels in [3] when rotated 180°.
 - o Fig 3B MCF-7 panels (right) in [1] and Fig 5A Vehicle PDGF-BB + panels in [3] when rotated 180°.
 - o Fig 3B MCF-7-vtRNA1-1 panels (right) in [1] and Fig 5A inhibitors PDGF-BB + panels in [3] when rotated 180°.
 - o Fig 3B MCF-7 vtRNA1-1/RBD panels (right) in [1] and Fig 4A MG63/vector panels in [2].
- In Fig 3B of [1], the MCF-7 EdU panel (left) appears similar to the MCF-7 PSF^{KD}/vtRNA1-1 EdU panel (left).
- The Fig 3C left and right MCF-7-vtRNA1-1 panels appear similar.
- Contrary to the article's Data Availability statement indicating that all relevant data are within the paper, the individual-level data underlying the published results have not been provided with the article.



OPEN ACCESS

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The authors did not respond to editorial communications regarding the above concerns. In light of the unresolved concerns that question the integrity and reliability of the reported data, the *PLOS ONE* Editors retract this article.

All authors either did not respond directly or could not be reached.

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1. Chen J, OuYang H, An X, Liu S (2018) Vault RNAs partially induces drug resistance of human tumor cells MCF-7 by binding to the RNA/DNA-binding protein PSF and inducing oncogene GAGE6. *PLoS ONE* 13(1): e0191325. <https://doi.org/10.1371/journal.pone.0191325> PMID: 29346433
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