RETRACTION NOTE

Open Access

Retraction Note: IncRNA TUG1 modulates proliferation, apoptosis, invasion, and angiogenesis via targeting miR-29b in trophoblast cells



Qian Li¹, Jing Zhang², Dong-Mei Su³, Li-Na Guan³, Wei-Hong Mu², Mei Yu², Xu Ma³ and Rong-Juan Yang^{4*}

Retraction to: Human Genomics (2019) 13:50 https://doi.org/10.1186/s40246-019-0237-z

The Editor-in-Chief has retracted this article because Figs. 2 and 5 appear to contain overlapping panels:

- In Fig. 2D, the panels HTR8 si-NC and HTR8 pcDNA3.1 appear to have a considerable region of overlap
- In Fig. 5C, the panels HRT8 si-TUG1+miR-29b mimic and HTR8 si-TUG1+miR-29b inhibitor appear to have a considerable region of overlap

The Editor-in-Chief therefore no longer has confidence in the results and conclusions presented.

None of the authors have responded to correspondence from the editor or publisher regarding this retraction.

Author details

¹National Human Genetic Resources Center, National Research Institute for Family Planning, Beijing 100081, People's Republic of China. ²Prenatal Diagnosis Center, Shijiazhuang Obstetrics and Gynecology Hospital, Hebei Province, Shijiazhuang 050011, People's Republic of China. ³Genetic Center,

The original article can be found online at https://doi.org/10.1186/s40246-019-0237-7

Full list of author information is available at the end of the article

National Research Institute for Family Planning, Beijing 100081, People's Republic of China. ⁴Department of Obstetrics, Shijiazhuang Obstetrics and Gynecology Hospital, Hebei Province, No. 206, East Zhongshan Road, Shijiazhuang 050011, People's Republic of China.

Published online: 18 May 2022

Publisher's Note

Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.



© BioMed Central 2022. **Open Access** This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit http://creativecommons.org/licenses/by/4.0/. The Creative Commons Public Domain Dedication waiver (http://creativecommons.org/publicdomain/zero/1.0/) applies to the data made available in this article, unless otherwise stated in a credit line to the data.

^{*}Correspondence: chgr2013@163.com

⁴ Department of Obstetrics, Shijiazhuang Obstetrics and Gynecology Hospital, Hebei Province, No. 206, East Zhongshan Road, Shijiazhuang 050011, People's Republic of China