

RETRACTION NOTE

Open Access



Retraction Note: hPMSC transplantation restoring ovarian function in premature ovarian failure mice is associated with change of Th17/Tc17 and Th17/Treg cell ratios through the PI3K/Akt signal pathway

Na Yin^{1†}, Yanlin Wang^{2†}, Xueyan Lu¹, Ranran Liu³, Lianshuang Zhang^{1,4}, Wei Zhao^{1,4}, Wendan Yuan⁵, Qianqian Luo⁶, Hao Wu⁷, Xiyang Luan^{1,8*} and Hongqin Zhang^{1,4*}

Retraction Note: *Stem Cell Research & Therapy* (2018) 9:37
<https://doi.org/10.1186/s13287-018-0772-x>

The Editor-in-Chief has retracted this article at the Corresponding Author's request. After publication, concerns were raised regarding partial image overlap between figures in this article and another article by the same authors submitted and published within a close time frame [1]. Specifically:

- Fig. 1A appears to present the same data as Fig. 2A in [1];
- Fig. 1B and D appear to overlap with Fig. 2B and D in [1], respectively;
- Fig. 3A appears to originate from a different section in the same sample as Fig. 5A in [1];
- Fig. 4A-1 and A-3 appear highly similar to Fig. 6C and A in [1], respectively;

- Fig. 5A Akt lane 1 and GAPDH lanes 1–3 appear highly similar to Fig. 7A FSHR lane 1 and GAPDH lanes 1–3 in [1], respectively

The Authors have stated that the data in Figs. 1–4 correspond to the experiments performed in this article, and that the conclusions of this article are not affected by these errors. However, they are unable to explain the similarities in the western blot images. The authors have therefore requested a retraction due to loss of confidence in the presented data.

All authors agree to this retraction.

Author details

¹Department of Histology and Embryology, Binzhou Medical University, 346 Guanhai Rd, Yantai, Shandong, China. ²Reproductive Medicine Center of the Affiliated Hospital of Binzhou Medical College, Binzhou, Shandong, China. ³Reproductive Medicine Center of the Affiliated Hospital of Binzhou Medical College, Yantai, Shandong, China. ⁴Research Institution of Reproductive Medicine, Binzhou Medical University, Yantai, Shandong, China. ⁵Basic Medicine College, Binzhou Medical University, Yantai, Shandong, China. ⁶Department of Morphology Laboratory, Binzhou Medical University, Yantai, Shandong, China. ⁷Clinical Medical School, Binzhou Medical University, Yantai, Shandong, China. ⁸Department of Immunology, Binzhou Medical University, 346 Guanhai Rd, Yantai, Shandong, China.

The original article can be found online at <https://doi.org/10.1186/s13287-018-0772-x>.

[†]Na Yin and Yanlin Wang contributed equally to this work*Correspondence: xyluan@sohu.com; byzhqh@163.com

¹ Department of Histology and Embryology, Binzhou Medical University, 346 Guanhai Rd, Yantai, Shandong, China
Full list of author information is available at the end of the article

Published online: 14 September 2022



© The Author(s) 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.

Reference

1. Zhang H, Luo Q, Lu X, et al. Effects of hPMSCs on granulosa cell apoptosis and AMH expression and their role in the restoration of ovary function in premature ovarian failure mice. *Stem Cell Res Ther.* 2018;9:20. <https://doi.org/10.1186/s13287-017-0745-5>.

Publisher's Note

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