

Retraction: MiR-27a promotes the autophagy and apoptosis of IL-1 β treated-articular chondrocytes in osteoarthritis through PI3K/AKT/mTOR signaling

Chen Cai^{1,*}, Shaoxiong Min^{1,*}, Bo Yan², Wen Liu³, Xiao Yang¹, Liuxun Li¹, Ting Wang³, Anmin Jin¹

¹Department of Spine Surgery, Zhujiang Hospital, Southern Medical University, Guangzhou, Guangdong, China

²Department of Spine Surgery, The Third Affiliated Hospital of Southern Medical University, Guangzhou, Guangdong, China

³Department of Cell Biology, School of Basic Medical Science, Southern Medical University, Guangzhou, Guangdong, China

*Equal contribution

Correspondence to: Anmin Jin; email: anmin67@163.com

Keywords: osteoarthritis, apoptosis, autophagy, miR-27a, PI3K

Original article: *Aging (Albany NY)* 2019; 11: pp 6371—6384

PMID: [31460867](https://pubmed.ncbi.nlm.nih.gov/31460867/)

PMCID: [PMC6738432](https://pubmed.ncbi.nlm.nih.gov/PMC6738432/)

doi: [10.18632/aging.102194](https://doi.org/10.18632/aging.102194)

This article has been retracted: Aging has completed its investigation of this paper. We found that four images of immunofluorescent staining in Figure 5A were previously published as Figure 6A in a 2012 paper by different authors [1]. In addition, Western blot bands in Figure 5B show internal duplication with bands in Figures 7B and Figure 2C in an earlier published paper from Huang et al [2] as well as Figure 6A in an unrelated paper [3]. There are also multiple overlaps between Western blot bands in Figures 6G and 7B with figures in unrelated papers all published in 2019 [4, 5, 6]. The authors informed the journal that they cannot reproduce the data published in the paper. As a result, all authors agreed that the article should be retracted.

REFERENCES

1. Kumari S, Mehta SL, Li PA. Glutamate induces mitochondrial dynamic imbalance and autophagy activation: preventive effects of selenium. *PLoS One*. 2012; 7:e39382. <https://doi.org/10.1371/journal.pone.0039382> PMID:[22724008](https://pubmed.ncbi.nlm.nih.gov/22724008/)
2. Huang YH, Sun Y, Huang FY, Li YN, Wang CC, Mei WL, Dai HF, Tan GH, Huang C. Toxicarioride O induces protective autophagy in a sirtuin-1-dependent manner in colorectal cancer cells. *Oncotarget*. 2017; 8:52783–91. <https://doi.org/10.18632/oncotarget.17189> PMID:[28881770](https://pubmed.ncbi.nlm.nih.gov/28881770/)
3. Huang L, Jian Z, Gao Y, Zhou P, Zhang G, Jiang B, Lv Y. RPN2 promotes metastasis of hepatocellular carcinoma cell and inhibits autophagy via STAT3 and NF- κ B pathways. *Aging (Albany NY)*. 2019; 11:6674–90. <https://doi.org/10.18632/aging.102167> PMID:[31481647](https://pubmed.ncbi.nlm.nih.gov/31481647/)
4. Liang M, Shao A, Tang X, Feng M, Wang J, Qiu Y. MiR-34a affects dexmedetomidine-inhibited chronic inflammatory visceral pain by targeting to HDAC2. *BMC Anesthesiol*. 2019; 19:131. <https://doi.org/10.1186/s12871-019-0801-z> PMID:[31324142](https://pubmed.ncbi.nlm.nih.gov/31324142/)

5. Li G, Tan W, Fang Y, Wu X, Zhou W, Zhang C, Zhang Y, Liu Y, Jiu G, Liu D. circFADS2 protects LPS-treated chondrocytes from apoptosis acting as an interceptor of miR-498/mTOR cross-talking. *Aging (Albany NY)*. 2019; 11:3348–61. <https://doi.org/10.18632/aging.101986> PMID:[31141496](https://pubmed.ncbi.nlm.nih.gov/31141496/)
6. Chen T, Zhang Y, Liu Y, Zhu D, Yu J, Li G, Sun Z, Wang W, Jiang H, Hong Z. MiR-27a promotes insulin resistance and mediates glucose metabolism by targeting PPAR- γ -mediated PI3K/AKT signaling. *Aging (Albany NY)*. 2019; 11:7510–24. <https://doi.org/10.18632/aging.102263> PMID:[31562809](https://pubmed.ncbi.nlm.nih.gov/31562809/)