



OPEN ACCESS

EDITED AND REVIEWED BY Yu Luo Shanghai University of Engineering Sciences, China

Kewei Jiang, dr_jiangkewei@163.com

[†]These authors have contributed equally to this work

SPECIALTY SECTION

This article was submitted to Nanobiotechnology. a section of the journal Frontiers in Bioengineering and Biotechnology

RECEIVED 09 November 2022 ACCEPTED 21 November 2022 PUBLISHED 01 December 2022

CITATION

Yu Z, Tong S, Wang C, Wu Z, Ye Y, Wang S and Jiang K (2022), Corrigendum: Yu et al. PPy@Fe3O4 nanoparticles inhibit the proliferation and metastasis of CRC via suppressing the NF- κB signaling pathway and promoting ferroptosis. Front. Bioeng. Biotechnol. 10:1094064. doi: 10.3389/fbioe.2022.1094064

COPYRIGHT

© 2022 Yu, Tong, Wang, Wu, Ye, Wang and Jiang. This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY). The use, distribution or reproduction in other forums is permitted, provided the original author(s) and the copyright owner(s) are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.

Corrigendum: Yu et al. PPy@ Fe₃O₄ nanoparticles inhibit the proliferation and metastasis of CRC via suppressing the NF-κB signaling pathway and promoting ferroptosis

Zhilong Yu^{1†}, Shanshi Tong^{2†}, Chenyi Wang¹, Zizhen Wu¹, Yingjiang Ye¹, Shan Wang¹ and Kewei Jiang¹*

¹Department of Gastroenterological Surgery, Laboratory of Surgical Oncology, Beijing Key Laboratory of Colorectal Cancer Diagnosis and Treatment Research, Peking University People's Hospital, Beijing, China, ²State Key Laboratory of Oncogenes and Related Genes, Shanghai Cancer Institute, Renji Hospital, School of Medicine, Shanghai Jiao Tong University, Shanghai, China

KEYWORDS

colorectal cancer, nanoparticles, metastasis, NF-κB, ferroptosis

A Corrigendum on

PPy@Fe3O4 nanoparticles inhibit the proliferation and metastasis of CRC via suppressing the NF-kB signaling pathway and promoting ferroptosis

by Yu Z, Tong S, Wang C, Wu Z, Ye Y, Wang S and Jiang K (2022). Front. Bioeng. Biotechnol. 10: 1001994. doi: 10.3389/fbioe.2022.1001994

In the published article, there was an error in the legend for Figure 6 as published. "DLD1" in Figure 6B Legend was incorrectly written as "MGC-803". The corrected legend appears below.

In the published article, there was an error in Figure 5C and Figure 6B as published. "Invasion" was incorrectly written as "Invation". The real image in the

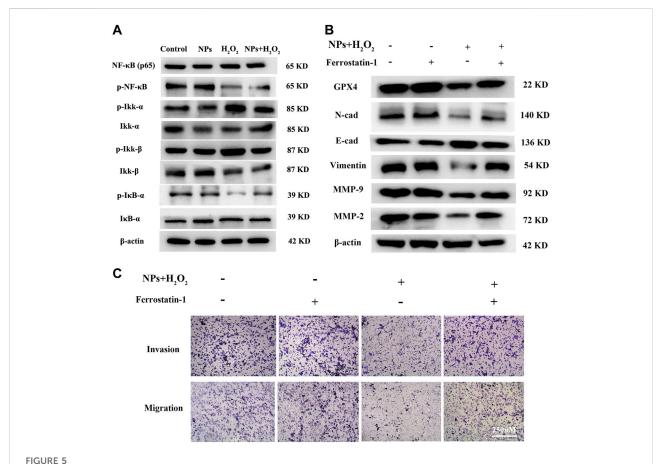
Yu et al. 10.3389/fbioe.2022.1094064

lower right corner of Figure 5C was incorrect due to a copy error when assembling the images. "NIR" in Figure 6B was incorrectly written as " H_2O_2 ". "Control" in Figure 6F was incorrectly written as "Contol". The corrected Figure 5 and Figure 6 and its caption appear below.

The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

Publisher's note

All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated organizations, or those of the publisher, the editors and the reviewers. Any product that may be evaluated in this article, or claim that may be made by its manufacturer, is not guaranteed or endorsed by the publisher.



Py@ Fe₃O₄ NPs suppress CRC cells metastasis by promoting cell ferroptosis and inhibiting NF- κ B signaling pathway. (A) Western blot. Colorectal cancer cell line DLD1 was treated with various groups (Control, H₂O₂, NPs and NPs +H₂O₂), and then subjected to Western blot analysis of the key proteins of the NF- κ B signaling pathway (lkk- β , p-lkk- β , lkk- α , p-lkk- α , NF- κ B, p-NF- κ B, iκB- α , and p-iκB- α). (B) Effects of the ferroptosis inhibitor Ferrostatin-1 on PPy@Fe₃O₄ NPs-induced metastasis-related proteins expression. (C) Transwell showed that PPy@Fe₃O₄ NPs induced cell migration and invasion were abolished after addition of the ferroptosis inhibitor Ferrostatin-1 in CRC cells.

Yu et al. 10.3389/fbioe.2022.1094064

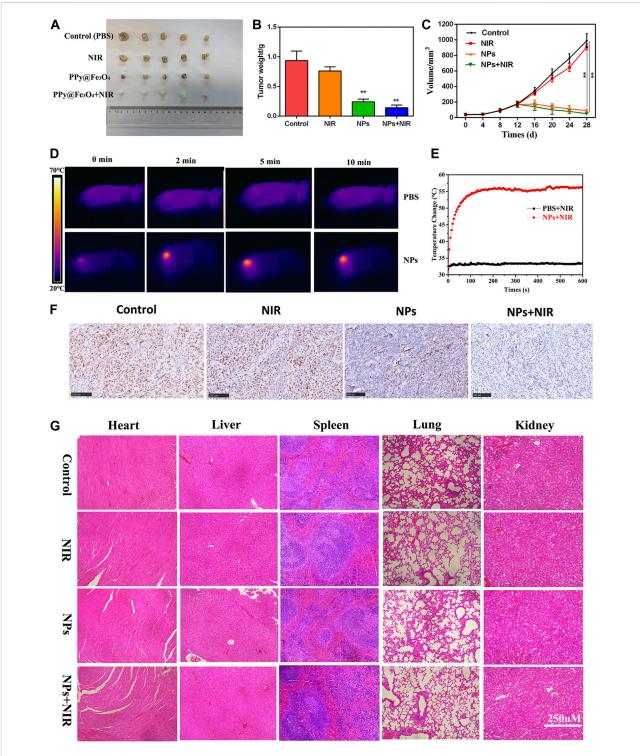


FIGURE 6 Anti-tumour activity of PPy@ Fe_3O_4 NPs in nude mouse tumour cell xenografts. (A) Images of subcutaneous xenograft tumors of DLD1 cells. (B) The final tumor weight of DLD1 cells was shown. (C) The tumor volume and change of different groups. (D) The temperature change and (E) infrared thermal imaging of the mice injected with PBS, NPs under laser irradiation. (F) Ki67 staining of the tumors in the control group and other treated groups. (scale bar: 100 μ m). (G) H&E staining of the main organs from the control and treatment groups. (scale bar: 250 μ m). **p < 0.01.