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## Retraction: NF- $\kappa$ B inhibition promotes apoptosis in androgen-independent prostate cancer cells by the photothermal effect *via* the I $\kappa$ B $\alpha$ /AR signaling pathway

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Retraction of 'NF- $\kappa$ B inhibition promotes apoptosis in androgen-independent prostate cancer cells by the photothermal effect *via* the I $\kappa$ B $\alpha$ /AR signaling pathway' by Chenfei Kong *et al.*, *Biomater. Sci.*, 2019, **7**, 2559–2570, <https://doi.org/10.1039/C8BM01007B>.

The first author finds that there are data errors in the article. In order to maintain the accuracy of the scientific record, the first author and the editor jointly decided to retract the article after consultation.

A number of immunofluorescence images in Fig. 3A have been duplicated in Fig. 5C, including:

The Hoechst, PI and merge images in Fig. 3A (DU145/40 panels) are duplicated in the Hoeschst, PI and merge images in Fig. 5c (NPs panels).

The Hoechst, PI and merge images in Fig. 3A (LNCaP/0 panel) are duplicated in the Hoeschst, PI and merge images in Fig. 5c (BAY panel).

The Hoechst, PI and merge images in Fig. 3A (LNCaP/40 panel) are duplicated in the Hoechst, PI and merge images in Fig. 5c (NPs + BAY panel).

A number of western blot images have been duplicated affecting Fig. 3F, Fig. 5A, Fig. 5F and Fig. 6C, including:

The WB panel in Fig. 3F (DU145/Pro-caspase 3) is duplicated in Fig. 5F (Bay-/Pro-caspase 3 panel).

The WB panel in Fig. 3F (DU145/Pro-caspase 8) is duplicated in Fig. 5F (Bay-/Pro-caspase 8 panel).

The WB panel in Fig. 3F (DU145/Cleaved caspase 8) is duplicated in Fig. 5F (Bay-/Cleaved caspase 8 panel).

The WB panel in Fig. 3F (DU145/Bax) is duplicated in Fig. 5F (Bay-/Bax panel).

The WB panel in Fig. 3F (LNCaP/Pro-caspase 8) is duplicated in Fig. 3F (LNCaP/Bax panel).

Two bands from the WB panel in Fig. 3F (LNCaP/Pro-caspase 3) are duplicated in Fig. 6C (AR panel).

Two bands from the WB panel in Fig. 5F (Bay + /Bax) are duplicated in Fig. 5A (GAPDH panel).

The WB panel in Fig. 5F (Bay + /Cleaved caspase 3) is duplicated in Fig. 5F (Bay + /Cleaved caspase 8 panel).

The flow cytometry data in the top right panel of Fig. 4A (DU145/40) is duplicated in the bottom right panel of Fig. 4C (LNCaP/40/NAC (5 mM)).

Miao Hao, Xi Chen, Xiaoming Zhao, Yuqian Wang, Jing Li, Yiyao Gao, Hao Zhang, Bai Yang and Jinlan Jiang were contacted but did not respond.

Signed: Chenfei Kong

Date: 18/07/2022

Retraction endorsed by Maria Southall, Executive Editor, *Biomaterials Science*

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