

Accepted Manuscript

Non-apoptotic Cell Death in Malignant Tumor Cells and Natural Compounds

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PII: S0304-3835(18)30094-6

DOI: [10.1016/j.canlet.2018.01.061](https://doi.org/10.1016/j.canlet.2018.01.061)

Reference: CAN 13729

To appear in: *Cancer Letters*

Received Date: 21 November 2017

Revised Date: 18 January 2018

Accepted Date: 24 January 2018

Please cite this article as: J. Ye, R. Zhang, F. Wu, L. Zhai, K. Wang, M. Xiao, T. Xie, X. Sui, Non-apoptotic Cell Death in Malignant Tumor Cells and Natural Compounds, *Cancer Letters* (2018), doi: 10.1016/j.canlet.2018.01.061.

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Traditional cancer therapy is mainly targeting on enhancing cell apoptosis, however, it is well established that many cancer cells are chemo-resistant and defective in apoptosis induction. Therefore, it may have important therapeutic implications to exploit some novel natural compounds based on non-apoptotic programmed cell death. Currently, accumulating evidence shows that the compounds from nature source can induce non-apoptotic programmed cell death in cancer cells, and therefore these natural compounds have gained a great promise for the future anticancer therapeutics. In this review, we will concentrate our efforts on the latest developments regarding major forms of non-apoptotic programmed cell death--autophagic cell death, necroptosis, ferroptosis, pyroptosis, glutamoptosis and exosome-associated cell death. Our increased understanding of the role of natural compounds in regulating non-apoptotic programmed cell death will hopefully provide prospective strategies for cancer therapy.

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