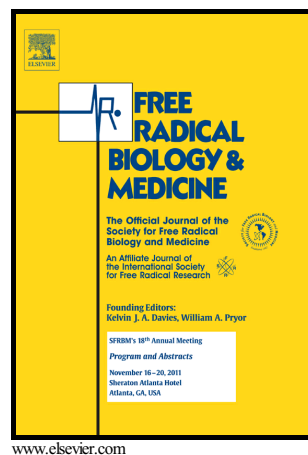


## Author's Accepted Manuscript

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PII: S0891-5849(17)30042-4  
DOI: <http://dx.doi.org/10.1016/j.freeradbiomed.2017.01.033>  
Reference: FRB13189

To appear in: *Free Radical Biology and Medicine*

Received date: 28 September 2016  
Revised date: 16 January 2017  
Accepted date: 24 January 2017

Cite this article as: Pinjia Chen, Xiaoyong Luo, Peipei Nie, Baoyan Wu, Wei Xu Xinpeng Shi, Haocai Chang, Bing Li, Xiurong Yu and Zhengzhi Zou, CQ synergistically sensitizes human colorectal cancer cells to SN-38/CPT-11 through lysosomal and mitochondrial apoptotic pathway via p53-ROS cross-talk, *Free Radical Biology and Medicine* <http://dx.doi.org/10.1016/j.freeradbiomed.2017.01.033>

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**CQ synergistically sensitizes human colorectal cancer cells to SN-38/CPT-11 through lysosomal and mitochondrial apoptotic pathway via p53-ROS cross-talk**

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**ABSTRACT**

Autophagy plays a key role in supporting cell survival against chemotherapy-induced apoptosis. In this study, we found the chemotherapy agent SN-38 induced autophagy in colorectal cancer (CRC) cells. However, inhibition of autophagy using a small molecular inhibitor 3-methyladenine (3-MA) and *ATG5* siRNA did not increase SN-38-induced cytotoxicity in CRC cells. Notably, another autophagy inhibitor chloroquine (CQ) synergistically enhanced the anti-tumor activity of SN-38 in CRC cells with wild type (WT) p53. Subsequently, we identified a potential mechanism of this

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