| 會員名稱:張庭嘉 | 登出

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## 大會摘要預覽

## BHE Induces p53-dependent Trans-activation and Fas/CD95-dependent Apoptosis Pathway in HCT 116 human Colorectal Cancer Cells

Ting-Chia Chang<sup>1\*</sup>, Yu-Jen Chiu<sup>2</sup>, Kuang-Chi Lai<sup>3</sup>, Kuei-Li Lin<sup>4</sup>, Shu-Fen Peng<sup>5</sup>, Mann-Jen Hour<sup>6</sup>, Chao-Ying Lee<sup>6</sup>, Yi-An Jin<sup>1</sup>, Jing-Gung Chung<sup>5#</sup>, Wen-Wen Huang<sup>5#</sup>, Jai-Sing Yang<sup>1#</sup>

<sup>1</sup>Department of Pharmacology, School of Medicine, China Medical University., <sup>2</sup>Department of Medical Education, Far Eastern Memorial Hospital., <sup>3</sup>Department of Surgery, China Medical University Beigang Hospital., <sup>4</sup>Department of Radiation Oncology, Chi Mei Medical Center., <sup>5</sup>Department of Biological Science and Technology, China Medical University., <sup>6</sup>School of Pharmacy, China Medical University.

In this study, we reported the cytotoxicity and action mechanism of BHE in HCT 116 human colorectal cancer cells. BHE showed growth inhibition, DNA damage and apoptosis in HCT 116 cells by using determination of MTT assay, morphologic changes, DAPI staining, comet assay and DNA gel electrophoresis. The results indicated that BHE induced the apoptotic cell death through extrinsic apoptotic pathway by the elevation of Fas/CD95, FADD and caspase-8 protein levels. Intracellular reactive oxygen species (ROS) generation was observed on BHE-stimulated HCT 116 cells. BHE induced early phosphorylation of p53Ser18 and histone H2AXSer139 through ataxia telangiectasia mutated (ATM) activation in response to ROS-induced DNA damage. The results of colorimetric assays revealed the activities of caspase-8 and caspase-3 were increased in BHE-treated cells. This is the first report on the activation of ROS-dependent ATM/p53 signaling as an important mechanism of BHE-induced cell death in HCT 116 human colorectal cancer cells.

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<sup>1</sup>中國醫藥大學 醫學系 藥理學科, <sup>2</sup>亞東紀念醫院 醫學教育學科, <sup>3</sup>中國醫藥大學 附設醫院 外科, <sup>4</sup>奇美醫院 放射腫瘤科, <sup>5</sup>中國醫藥大學 生物科技系, <sup>6</sup>中國醫藥大學 藥學系

張庭嘉 $^{1*}$ , 邱宇任 $^{2}$ , 賴光啟 $^{3}$ , 林奎利 $^{4}$ , 彭淑芬 $^{5}$ , 侯曼貞 $^{6}$ , 李昭瑩 $^{6}$ , 金益安 $^{1}$ , 同首頁

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