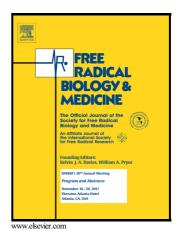
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Antioxidant tert-butylhydroquinone ameliorates arsenic-induced intracellular damages and apoptosis through induction of Nrf2-dependent antioxidant responses as well as stabilization of anti-apoptotic factor Bcl-2 in human keratinocytes

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1 Antioxidant tert-butylhydroquinone ameliorates arsenic-induced intracellular 2 damages and apoptosis through induction of Nrf2-dependent antioxidant 3 responses as well as stabilization of anti-apoptotic factor Bcl-2 in human 4 keratinocytes Xiaoxu Duan^a, Jinlong Li^a, Wei Li^b, Xiaoyue Xing^c, Yang Zhang^a, Wei Li^a, Lu Zhao^a, 5 Guifan Sun^d, Xing-hua Gao^e and Bing Li^{a*} 6 7 8 a 9 Department of Occupational and Environmental 10 Key Laboratory of Arsenic-related Biological Effects and Prevention and Treatment 11 in Liaoning Province, School of Public Health, China Medical University, Shenyang, 12 110013, China ^b Health Care Department, Maternal and Child Health Care Center of Cangzhou, 13 14 Cangzhou, 061000, China. 15 ^c Student Office, China Medical University, Shenyang 110013, China ^d Environment and Non-Communicable Diseases Research Center, School of Public 16 17 Health, China Medical University, Shenyang, 110013, China 18 ^e Department of Dermatology, No.1 Hospital of China Medical University, Shenyang 19 110001, PR China. 20 21 Running title: tBHQ antagonizes arsenic-induced cytotoxicity and apoptosis 22 23

24

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