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Basic Study

Autophagic cell death induced by reactive oxygen species is involved in hyperthermic sensitization to ionization radiation in human hepatocellular carcinoma cells

Guang-Jin Yuan, Jun-Jian Deng, De-Dong Cao, Lei Shi, Xin Chen, Jin-Ju Lei, Xi-Ming Xu

Abstract

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1 Feb 2017 ... Radiation-induced ROS are involved in initiation and promotion of ... in cytosol sensitize the tumor cells to death, resulting in tumor growth ... Cellular response to ionizing radiation involves generation of a ... These radical and molecular cellular products are commonly known as reactive oxygen species ...

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26 May 2017 ... In tumor cells, exposure to ionizing radiation (IR) provokes DNA damages that ... Antitumor effects of radiation therapy are mainly due to the induction of an ... Apoptosis, autophagic cell death, necrosis, and necroptosis are cell death It is also shown that reactive oxygen species (ROS) are essential for ...

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Methods: Normal NIH 3T3 cells and cancer HeLa cells were irradiated with 685 and ... The cytotoxic effect of ionizing radiation is mainly caused by DNA damages, ... alters the affinity of transcription factors involved in cell proliferation, survival, production of reactive oxygen species (ROS) by mitochondria following LLLI.

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30 Sep 2011 ... The dose of ionizing radiation that can be given to the tumor is determined by ... Hyperthermia induces heat shock protein 70 (Hsp70; HSPA1A) synthesis features of cancer cells and the cause of 90% of human cancer death [66]. chemokines and reactive oxygen species, increase the expression of ...

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Keywords: reactive oxygen species, mesothelioma, cell trasformation, cell ... of hepatocellular carcinoma, and chronic gastritis induced by Helicobacter pylori is a ... Malignant mesothelioma (MM) is a tumor arising from mesothelial cells after ROS can induce cell death by apoptosis, necrosis, and autophagy [125–127].

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17 Dec 2011 ... Cellular exposure to ionizing radiation leads to oxidizing events that alter ...
Keywords: Ionizing radiation, Reactive oxygen/nitrogen species, Oxidative ... the damage or culminate in permanent physiological changes or cell death [2]. Role of oxidative stress and DNA damage in human carcinogenesis.

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12 Sep 2013 ... Keywords: necroptosis, programmed cell death, cancer, signal transduction, RIP1 ... involved in the control of necroptosis form the basis of many human diseases, ... stimuli can initiate necroptosis, including reactive oxygen species (ROS), ... DNA-damaging agents, ionizing radiation, photodynamic therapy, ...

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10 Jun 2015 ... Keywords: reactive oxygen species, mesothelioma, cell ... In humans, oxidative stress is thought to be involved in the ... factors of hepatocellular carcinoma, and chronic gastritis induced by ROS can induce cell death by apoptosis, necrosis , and autophagy [125–127]. Protection and Sensitization.

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作者: Q Wu - 2017

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2013年9月12日 - Keywords: necroptosis, programmed **cell death**, **cancer**, signal transduction, RIP1 ... **involved** in the control of necroptosis form the basis of many **human** diseases, ... can initiate necroptosis, including **reactive oxygen species** (ROS), to **induce autophagy**-dependent necroptosis in glucocorticoid-resistant ...

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