Cannabinoid Induced Autophagy Regulates Suppressor Of

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Cannabinoid action induces autophagy-mediated cell death ...

An inhibition of autophagy prevents apoptosis induced by cannabinoids, while an inhibition of apoptosis prevents only cell death but not the autophagy 39, 41-43. It has been shown that

cannabinoids induce process of autophagy in cancer cell lines such as glioma, melanoma, hepatic, and pancreatic cancer 39, 41-43.

Activation of cannabinoid receptor type 2-induced ...

Cannabinoid Induced Cancer Cell Death Source: International Journal of Oncology In recent years, cannabinoids (the active components of Cannabis sativa) and their derivatives have received considerable interest due to findings that they can affect the viability and invasiveness of a variety of different cancer cells.

Cannabinoid-induced autophagy regulates suppressor of ...

Cannabinoid action induces autophagy-mediated cell death through stimulation of ER stress in human glioma cells María Salazar,1,2 Arkaitz Carracedo,1 Íñigo J. Salanueva, 1 Sonia Hernández-Tiedra, Mar Lorente,1,2 Ainara Egia, 1 Patricia Vázquez,3 Cristina Blázquez,1,2 Sofía Torres, Stephane García,4

Cannabinoid-induced autophagy regulates suppressor of ...

Cannabinoid-induced autophagy regulates suppressor of cytokine signaling (SOCS)-3 in intestinal epithelium. Autophagy is a catabolic process involved in homeostatic and regulated cellular protein recycling and degradation via the lysosomal degradation pathway.

Cannabinoid-induced autophagy regulates suppressor of ...

Cannabinoid-induced autophagy regulates suppressor of cytokine signaling-3 in intestinal epithelium. Luan C. Koay, Rachael J. Rigby, and ; Karen L. Wright

The current state and future perspectives of cannabinoids ...

Background. Dysfunction in survival and differentiation of osteoblasts commonly occurs in patients with osteoporosis. Cannabinoid receptor type 2 (CNR2) is a major receptor of end

EGFR-mediated autophagy in tumourigenesis and therapeutic ...

Autophagy is a catabolic process involved in homeostatic and regulated cellular protein recycling and degradation via the lysosomal degradation pathway. Emerging data associates impaired autophagy, increased activity in the endocannabinoid system and upregulation of suppressor of cytokine signaling (SOCS)-3 protein expression during intestinal inflammatory states.

Cannabinoid-induced autophagy: Protective or death role ...

Autophagy is upstream of apoptosis in cannabinoid-induced cancer cell death. (A) Effect of THC and the pan-caspase inhibitor ZVAD (10 μM) on the viability of Atg5 +/+ and Atg5 –/– MEFs (36 h; percentage of viable cells relative to the corresponding Atg5 +/+ vehicle-treated cells, mean ± SD; n = 3).

JCI - Autophagy orchestrates the regulatory program of ...

Activation of cannabinoid receptor type 2-induced

osteogenic differentiation involves autophagy induction and p62-mediated Nrf2 deactivation Aihua Xu, Yang Yang, Yang Shao, Meng Wu and Yongxin Sun* Abstract Background: Dysfunction in survival and differentiation of osteoblasts commonly occurs in patients with osteoporosis.

JCI - Cannabinoid action induces autophagy-mediated cell ...

The autophagy pathway is induced under hypoxic conditions, and hypoxia is a cardinal feature of most tumors that possesses a major role in tumor progression, metastasis, and response to therapy . Although most studies have focused on the role of autophagy in tumor cells (10), how this pathway affects the immune components of the TME and specifically MDSCs remains unknown.

Cannabinoid Induced Autophagy Regulates Suppressor

Cannabinoid-induced autophagy regulates suppressor of cytokine signaling-3 in intestinal epithelium

Cannabinoid-induced autophagy regulates suppressor of ...

Autophagy is a catabolic process involved in homeostatic and regulated cellular protein recycling and degradation via the lysosomal degradation pathway. Emerging data associate impaired autophagy, increased activity in the endocannabinoid system, and upregulation of suppressor of cytokine signaling-3 (SOCS3) protein expression during intestinal inflammation.

(PDF) Cannabinoid-induced autophagy regulates suppressor ...

The majority of studies about cannabinoid-induced autophagy have been performed in tumor models. It has been demonstrated that cannabinoids induce autophagy in various types of cancer cell lines, and that, in most cases, this antineoplastic activity is counteracted by the inhibition (pharmacological or genetic) of autophagy, suggesting that this process is required for the cannabinoid's antiproliferative action.

Activation of cannabinoid receptor type 2-induced ...

AMPK has been shown to have a crucial role in the cannabinoid-induced autophagy. We previously reported that cannabinoids inhibit pancreatic cancer cell proliferation both in vitro and in vivo, and autophagy has been demonstrated to mediate this process or to be itself a death mechanism.

Cannabinoids inhibit energetic metabolism and induce AMPK ...

In addition, Bareford et al. have found that sorafenib (a multikinase inhibitor) induced autophagy, thereby enhancing the cytotoxic effects of pemetrexed by inhibiting the mTOR and activating the ERK signalling pathways . Therefore, based on the above reports, it can be concluded that RAS signalling pathway positively regulates autophagy.