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Basic Study

Extract of *Cycas revoluta* Thunb. enhances inhibitory effect of 5-fluorouracil on gastric cancer cells by AKT-mTOR pathway

Cui XL *et al.* Anti-cancer effect of *Cycas revoluta* Thunb.

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Abstract

BACKGROUND

4 Gastric cancer is one of the most common and deadly malignancies around the world. Despite the recent progress in medical, the 5-year survival rate of gastric cancer is still unsatisfactory. During the chemotherapy for gastric cancer, 5-fluorouracil (5-Fu) is one of the first-line antineoplastic treatments, which can effectively induce apoptosis in cancer cells. However, the effect of 5-Fu is limited by the drug resistance of malignant tumor. The previous studies have reported Sotetsuflavone from *Cycas revolute* Thunb. could markedly suppress the proliferation of lung cancer cells by apoptosis, while its effect on gastric cancer remain unknown.

AIM

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However, whether TCS would induce autophagy in gastric cancer cells was seldom ... The anti-proliferation effect of TCS was due to an increased autophagy, which ... up-regulation of Autophagy protein 5 (Atg5), and conversion of LC3 I to LC3 II autophagy through the inhibition of the PI3K-I/Akt/mTOR pathway and ROS.

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二名法: *Cycas revoluta*. Thunb. 苏铁（学名：*Cycas revoluta*），也称鐵樹、鳳尾蕉、鳳尾松、避火樹，属于苏铁科的一种植物。 目录 1 形态; 2 特性; 3 分布; 4 繁殖 4.1 自然繁殖; 4.2 人工繁殖 5 使用 5.1 药用; 5.2 食用 6 毒性; 7 威脅; 8 圖片; 9 參考來源; 10 外部連結 ...

Cycas revoluta - Wikipedia

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