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Chlorogenic acids in combination with cisplatin inhibits the growth and angiogenesis of breast carcinoma *in vitro* and *in vivo*

Chlorogenic acid was isolated from green coffee beans. It has also been found in the leaves of *Hibiscus sabdariffa* and select herbs such as *Lonicera japonica* (honeysuckle) and *Eucommia ulmoides*. Breast cancer is an important malignant disease among the Chinese. It is one of the most lethal malignant tumors worldwide. In the present study, we investigated the effects of chlorogenic acids (CGA) and cisplatin (CDDP) on proliferation, apoptosis, and angiogenesis of HCC *in vitro* and *in vivo*. It was found that co-treatment of CGA and CDDP could not only induce tumor cells into apoptosis through activating the mitochondria pathways, but also suppress the angiogenesis in xenograft animal model. These effects were associated with downregulation of the expression of MMP2/9, VEGF, and VEGFR-2, up-regulation of P53 signaling. Thus, CGA and CDDP in combination showed a better anti-tumor effects in breast cells than either CGA or CDDP presence alone and might represent an effective therapeutic strategy for breast cancer therapy.

Biography

Ya-Tien Wu is a Registered Professional Nurse and Respiratory Therapist. She is serving as a Professional Respiratory Therapist in Show Chwan Memorial Hospital for five years. She is participating in science research in Show Chwan Memorial Hospital Research Center on cancer and herbal therapy.

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