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Advanced research on anti-tumor effects of amygdalin

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Abstract

Malignant tumors are the major disease that cause serious damage to human health, and have been listed as the premier diseases which seriously threatened human health by World Health Organization (WHO). In recent years the development of antitumor drugs has been gradually transformed from cytotoxic drugs to improving the selectivity of drugs, overcoming multidrug resistance, development of new targeted drugs and low toxicity with high specificity drugs. Amygdalin is a natural product that owns antitumor activity, less side effects, widely sourced and relatively low priced. All these features make the amygdalin a promising antitumor drugs, if combined with conditional chemotherapy drugs, which can produce synergistic effect. In this paper, we summarized the pharmacological activity, toxicity and antitumor activity of amygdalin, mainly focused on the advanced research of amygdalin on its antitumor effects in recent years, providing new insights for the development of new anticancer drugs, new targets searching and natural antitumor mechanism investigations.

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