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肿瘤细胞中脂肪酸合成酶和人表皮生长因子受体2的联系 [点此下载全文](#)

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摘要:

肿瘤细胞的生理生化特性不同于正常的组织细胞, 其中某些基因会出现异常表达。基因表达上调为靶向给药提供了靶点, 从而避免在治疗肿瘤时伤及正常细胞。脂肪酸合成酶(fatty acid synthase, FAS)和人表皮生长因子受体2(human epidermal growth factor receptor 2, HER2)都是在肿瘤细胞中高表达的分子。针对HER2的赫赛汀(herceptin)已应用于乳腺癌的临床治疗并取得了良好疗效, 而针对FAS的药物浅蓝霉素也正在临床进行试验。近年来研究发现, FAS和HER2在某些肿瘤细胞(如乳腺癌细胞、卵巢癌细胞等)中同时高表达, 相互之间存在着信号通路上的联系, 而且用药后具有协同抑制作用。本文对肿瘤细胞中二者的相互联系作一综述。

关键词: [肿瘤](#) [脂肪酸合成酶](#) [受体](#) [表皮生长因子](#) [信号转导](#) [基因表达](#)

Relationship between fatty acid synthase and human epidermal growth factor receptor-2 in tumor cells [Download Fulltext](#)

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Abstract:

Tumor cells have different physiological and biochemical features as compared to normal cells; abnormal expression of certain genes is also found in tumor cells. Over expression of genes provide targets for targeted administration of drugs, which can avoid damage to normal cells during treatment of tumors. Fatty acid synthase (FAS) and human epidermal growth factor receptor 2 (HER2) are both over expressed in some tumor cells. Herceptin, an HER2 targeted agent, has been used to treat HER2 positive breast cancer patients worldwide and has obtained satisfactory outcome. Cerulomycin, an agent targeting FAS, is now in FDA clinical trial. Recent researches have shown that FAS and HER2 are simultaneously over expressed in some tumors, such as breast cancer cells and ovarian cancer cells; and there is a connection between their signal pathways and a synergistic effect between them. This paper reviews the relationship between FAS and HER2 in tumor cells.

Keywords: [neoplasms](#) [fatty acid synthase](#) [receptor](#) [epidermal growth factor](#) [signal transduction](#) [gene expression](#)

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