

综述

## 促性腺激素释放激素及其受体在肿瘤治疗中的应用

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**摘要** 促性腺激素释放激素(GnRH)是由下丘脑神经元分泌的一种十肽类激素,其生理功能是调节垂体前叶促性腺激素的分泌,进而刺激黄体生成素及卵泡刺激素的分泌以调节性激素的水平。GnRH对垂体外的多种外周组织的生理功能也有调节作用。近年研究发现,乳腺、卵巢、子宫内膜、前列腺、胰腺、肺、肝脏发生的肿瘤细胞上均有GnRH受体分布,GnRH类似物可抑制这些肿瘤细胞生长。GnRH及其类似物的抗肿瘤效应是通过调节垂体促性腺激素水平来实现的。本文对GnRH及其受体在肿瘤治疗中的应用进展进行综述。

**关键词** [促性腺激素释放激素](#); [促性腺激素释放激素受体](#); [抗肿瘤药,激素](#)

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## Gonadotropin releasing hormone and its receptor associated with tumor therapy: research advances

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### Abstract

Gonadotropin-releasing hormone(GnRH) released by neurons in the hypothalamus is a deca-peptide hormone, which regulates the secretion of anterior pituitary gonadotropin to trigger the secretion of luteinizing hormone and follicle stimulating hormone, and in turn regulates the secretion of sex hormone. Recent researches found that GnRH receptor was widely distributed in tumor cells of several tissues such as breast, ovary, endometria, prostate, pancreas, lungs and liver and GnRH analogs could inhibit the growth of these tumor cells, which were implemented through regulating the level of pituitary gonadotropin. This paper reviews the advances in the study on GnRH and GnRH receptors associated with tumor therapy.

**Key words** [gonadotropin releasing hormone](#) [receptors](#) [GnRH](#) [antineoplastic agents](#) [hormonal](#)

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