

综述

结肠癌化学造模方法研究进展

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摘要 化学致癌物质是诱导人类癌症发生的重要因素之一, 结肠癌化学造模方法是研究结肠癌发生、发展、转移和抗肿瘤药物疗效的重要工具。随着造模方法研究的深入, 目前化学造模所常用到的致癌化学物有偶氮类、杂环氮类、芳香胺类、烷基亚硝酰胺类等, 种类繁多, 且作用机制各不相同; 给药途径各异, 有口服、灌肠、腹腔注射、肌内注射、皮下注射等; 实验动物经常采用不同遗传背景的小鼠。这些因素均能影响造模成功率与成瘤率, 本文从致癌剂、给药途径、实验动物及作用机制四个方面对结肠癌化学造模作一综述。

关键词 [结肠癌](#) [动物模型](#) [致癌剂](#)

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Progress in chemical modeling method in colon cancer

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Abstract

Chemical carcinogens are a kind of important factors to induce human cancer. The chemical carcinogenesis modeling have obvious advantages and been widely employed, especially have important roles for the study of colon cancer initiation, progress, metastasis and efficacy of anticancer drugs. Currently, with the deepening of the modeling study, there are many commonly used carcinogens that induce colon tumors, including: azo-compound, heterocyclic amines, aromatic amines, aromatic amines, *etc.* The route of administration is different, including oral, enema, intraperitoneal injection, intramuscular injection, subcutaneous injection, *etc.* Experimental animals often using different genetic background of the mice. These factors will contribute the success of carcinogenesis models. So this article is reviewed from the choice of carcinogens, route of administration, experimental animals and mechanism of action above four aspects to colon cancer chemical modeling.

Key words [colon cancer](#) [animal models](#) [carcinogens](#)

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