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## 论文

### E-cadherin诱导的卵巢上皮细胞恶变模型的建立及其特征

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摘要:

**目的** 建立E-cadherin诱导的卵巢上皮细胞早期恶变模型, 并对其生长增殖等生物学行为进行初步研究。**方法** 采用含人E-cadherin基因CDH1全长cDNA的质粒转染中国仓鼠卵巢(Chinese hamster ovary, CHO)细胞, 利用G418筛选稳定转染细胞株, 通过Western Blot 验证其E-cadherin的表达, 然后通过CCK8细胞增殖实验及集落形成实验检测其生物学行为的变化。**结果** CHO细胞转染CDH1基因后, 高度表达E-cadherin蛋白, 生长增殖水平显著提高, 并具备了恶性细胞特有的非锚定依赖性生长的能力。**结论** 构建了E-cadherin诱导的卵巢上皮细胞恶变模型, 为卵巢肿瘤发生机制的研究提供了可靠的工具。

**关键词:** E-cadherin; 卵巢上皮细胞; 恶变; 细胞模型

### Construction and characteristics of E-cadherin induced cancerization model from ovarian epithelial cells

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Abstract:

**Objective** To construct E-cadherin induced cancerization model from ovarian epithelial cells and make primary research on its biological behaviors such as proliferation and growth. **Methods** Chinese hamster ovary (CHO) cells were transfected by plasmid including whole human E-cadherin cDNA and stably screened with G418. Expression of E-cadherin was identified by Western Blot, and cell proliferation test with CCK8 and colony formation test were used to detect their possible malignant transformation of biological behaviors. **Results** A high level of E-cadherin expression, high ability of proliferation and acquisition of anchorage-independent growth were found in CHO cells transfected by E-cadherin plasmid. **Conclusion** An E-cadherin induced cancerization model of ovarian epithelial cells was successfully constructed to provide a valuable tool to study the mechanisms of ovarian cancer.

**Keywords:** E-cadherin; Ovarian epithelial cell; Cancerization; Cell model

收稿日期 2010-11-02 修回日期 网络版发布日期

DOI:

基金项目:

国家自然科学基金(30772329); 中国博士后科学基金面上资助(20090450153); 山东省自然科学基金(ZR2009CM004); 山东省博士后创新项目专项基金(200801009)

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