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P-glycoprotein的新功能在肿瘤研究中的进展*

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Novel insights into P-glycoprotein in cancer progression

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[摘要](#)[图/表](#)[参考文献\(0\)](#) [相关文章\(15\)](#)**全文:** [PDF](#) (952 KB) [HTML](#) (1 KB)**输出:** [BibTeX](#) | [EndNote](#) (RIS)**摘要**

肿瘤多药耐药性(multiple drug resistance, MDR)的发生往往伴随着多药耐药基因如MDR1、MRP 1和BCRP等高表达,其中MDR1基因编码的P-糖蛋白(P-glycoprotein, P-gp)是目前公认可以诱发癌细胞发生MDR的重要分子。传统研究认为P-gp主要是作为一个药物泵将化疗药物从细胞内排出从而导致MDR。然而系列研究发现,除了介导MDR以外,P-gp还能够调节癌细胞的生长、增殖、凋亡、迁移和侵袭等其他生物学行为;而且研究表明P-gp的这些作用可以依赖,也可以不依赖于其药物泵的功能。这些结果表明P-gp能够通过一些新的机制促进肿瘤的进展。本文主要针对P-gp在促进肿瘤进展中的作用进行综述。

关键词: [P-glycoprotein](#), [多药耐药](#), [增殖](#), [凋亡](#), [迁移](#), [上皮间质转化](#), [血管生成](#)**Abstract :**

The acquisition of multiple drug resistance (MDR) phenotype is associated with the overexpression of multidrug resistance-associated genes, such as MDR 1, MRP 1, and BCRP. P-glycoprotein (P-gp), encoded by MDR 1, is one of the most extensively characterized MDR transporters in cancer. P-gp mainly functions as a drug pump that excretes chemotherapeutic drugs from cancer cells. However, P-gp participates in cancer progression-related processes, such as cancer cell proliferation, growth, apoptosis, migration, and invasion. Several functions are independent of drug transporter activities. These data suggest that novel mechanisms are employed by P-gp to promote cancer progression. Thus, novel functions of P-gp should be understood and mechanisms by which P-gp promotes cancer aggravation should be determined to improve cancer diagnosis and treatment. In this review, recent research progress on novel contributions of P-gp to cancer progression is summarized.

Key words: [P-glycoprotein](#) [multiple drug resistance](#) [proliferation](#) [apoptosis](#) [migration](#) [epithelial-mesenchymal transition](#) [angio-genesis](#)**收稿日期:** 2015-01-27 **出版日期:** 2015-06-30**基金资助:**

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