

Circular RNA is a popular molecule in tumors of the ...

<https://www.spandidos-publications.com/10.3892/ijo.2020.5054>

Accumulating evidence have shown that circRNA serves a pivotal role in the proliferation, invasion, migration, cell cycle progression and drug resistance of esophageal and gastric cancers.

Cited by: 4 Author: Hao-Ying Wang, Yu-Ping Wang, Xi Zeng, Ya...

Publish Year: 2020

The emerging role of microRNAs and long noncoding RNAs in ...

<https://pubmed.ncbi.nlm.nih.gov/31651347>

However, most HCC patients eventually develop drug resistance, resulting in a poor prognosis. The mechanisms involved in HCC drug resistance are complex and inconclusive. Human transcripts without protein-coding potential are known as noncoding RNAs (ncRNAs), including microRNAs (miRNAs), small nucleolar RNAs (snoRNAs), long noncoding RNAs (lncRNAs) and circular RNA (circRNA).

Cited by: 85 Author: Ling Wei, Xingwu Wang, Liyan Lv, Jibing Liu...

Publish Year: 2019

CircRNAs: biogenesis, functions, and role in drug ... 7 mins read

[https://molecular-cancer.biomedcentral.com/...](https://molecular-cancer.biomedcentral.com/)

Aug 05, 2020 - Numerous experiments have demonstrated that circRNAs play a regulatory role in drug resistance in lung cancers, including LUAD, small cell lung cancer (SCLC), and NSCLC. CircPVT1 is upregulated in LUAD tissues and cell lines with resistance to CDDP and MTA. CircPVT1 was found to mediate CDDP and MTA resistance via the miR-145-5p/AR/C1 axis.

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Circular RNAs in drug resistant tumors.<https://www.ncbi.nlm.nih.gov/pubmed/31351436>

Circular RNAs (circRNAs) are a new class of regulatory RNAs that can regulate endogenous gene expression. Previous studies revealed the diagnostic and prognostic value of circRNAs in malignant cancer and other diseases, but few reports have examined their association with clinical drug resistance.

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The function and mechanism of circular RNAs in ...<https://onlinelibrary.wiley.com/doi/10.1111/cpr.12815>

Jun 08, 2020 - In recent years, circRNAs have gained more attention as a potential new drug target. circRNAs can be packed into exosomes or other nanostructured materials, and play a role by being transported to the corresponding target cells through tumour microenvironment, which may provide the potential targets for the therapy of tumours. 94 However, at present, the research on circRNAs as a therapeutic target of gastrointestinal tumours ...

Cited by: 10 Author: Hui Nie, Yutong Wang, Zhiming Liao, Jianh...
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Manuscript NO: 64006
Manuscript Type: REVIEW

Role of circular RNAs in gastrointestinal tumors and drug resistance

XI SJ *et al.* circRNAs in gastrointestinal tumors and drug resistance

Shi-Jun Xi, Wen-Qi Cai, Qin-Qi Wang, Xiao-Chun Peng

Abstract

The incidence of gastrointestinal cancers has increased significantly over the past decade and gastrointestinal malignancies now rank among the leading causes of mortality globally. Although newer therapeutic strategies such as targeted therapies have greatly improved patient outcomes, their clinical success is limited by drug resistance, treatment failure and recurrence of metastatic disease. Therefore, there is an urgent need for further research identifying accurate and reliable biomarkers for precise treatment strategies. Circular RNAs (circRNAs) exhibit a covalently closed structure,

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Circular RNAs in drug resistant tumors.

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What kind of RNA is a circular RNA? ▾

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Non-Coding RNAs and Resistance to Anticancer Drugs in ...

<https://www.ncbi.nlm.nih.gov/pubmed/29967761>

Jun 18, 2018 · In this review, we summarize the role of non-coding RNAs for different mechanisms resulting in drug resistance (e.g., drug transport, drug metabolism, cell cycle regulation, regulation of apoptotic pathways, cancer stem cells, and EMT) in the context of gastrointestinal cancers. PMCID: PMC6015885. PMID: 29967761.

Cited by: 33 Author: Jens C. Hahne, Nicola Valeri, Nicola Valeri