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E2F1 E2F transcription factor 1 [(human)]

<https://www.ncbi.nlm.nih.gov/gene/1869>

Hypermethylated **E2F transcription factor 1** (E2F1) motif is a key regulatory element for the DNMT1 gene in BRCA1-mutated breast cancer; E2F-1 is involved in regulating multiple signaling pathways in reversing multidrug resistance in gastric cancer cells.

EDD enhances cell survival and cisplatin resistance and is ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4004201>

EDD enhances cell survival and **cisplatin resistance** and is a therapeutic target for epithelial ovarian cancer. ... **E2F transcription factor 1** represses Mcl-1 expression and knockdown of EDD induces **E2F transcription factor 1** protein levels in HeLa ... This is likely due to the multiple mechanisms of **cisplatin resistance** in cells and tumors .

Cited by: 14 Author: Amber Bradley, Hui Zheng, Angela Ziebarth,...

Publish Year: 2014

Molecular mechanisms in progression of HPV-associated ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6477741>

Apr 23, 2019 · The **silencing** of E6 and E7 was found to decrease methylation of tumour suppressor genes and reverse the transformed phenotype of cervical **cancer cells** [61, 63]. Methylation of HPV genes with concomitant **silencing** of HPV oncogenes could be a strategy of the virus to maintain a long-term infection by evading immune recognition [79].

Cited by: 6 Author: Sadhana M. Gupta, Jayanti Mania-Pramanik

Publish Year: 2019

CDK2 | Cancer Genetics Web

www.cancerindex.org/geneweb/CDK2.htm

Aug 31, 2019 · Deregulation of SET7/9 is frequently detected in human cancers. However, the role of SET7/9 in HCC development remains unclear. In the present study, **upregulation** of SET7/9 and **E2F transcription factor 1** (E2F1) expression was detected in 68 samples of HCC tissues compared with these levels noted in the paired healthy liver samples.

Mir-34: A New Weapon Against Cancer? - ScienceDirect

<https://www.sciencedirect.com/science/article/pii/S2162253116303341>

Mir-34: A New Weapon Against **Cancer?** ... the same authors have related miR-34a re-expression with improved sensitivity of **gastric cancer cells** against **cisplatin**-based chemotherapies, ... It was mechanistically shown that miR-34a mediates targeting of Yin Yang-1 (YY1), a **transcription factor** that can stimulate the expression of EGFR, thus ...

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E2F1 (Protein)

Transcription factor E2F1 is a protein that in humans is encoded by the E2F1 gene.

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 52257

Manuscript Type: ORIGINAL ARTICLE

Case Control Study

Upregulation of miR-34c after silencing E2F transcription factor 1 inhibits paclitaxel combined with cisplatin resistance in gastric cancer cells

Zheng H *et al.* E2F1/miR-34c in gastric cancer cells

Hong Zheng, Jin-Jing Wang, Xiao-Rong Yang, Yong-Lin Yu

Abstract

BACKGROUND

Gastric cancer (GC) is one of the most common types of cancer. The detailed roles of microRNA 34c (miR-34c) and E2F transcription factor 1 (E2F1) have been respectively proved in various cancer types, respectively. However, the relationship between them in GC has not been understood.

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E2F1 E2F transcription factor 1 [(human)]

<https://www.ncbi.nlm.nih.gov/gene/1869>

E2F-1 inhibits growth of gastric cancer cells by regulating multiple signaling pathways. A newly discovered role of E2F1 in the regulation of p53R2 expression in DNA damage response. E2F1 is a potent biomarker, as well as a therapeutic target for all-trans retinoic acid -based differentiation therapeutics, and raise the hope of using differentiation-based approaches for osteosarcoma patients.

EDD enhances cell survival and cisplatin resistance and is ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4004201>

Both Bcl-xL and Mcl-1 have been implicated to protect ovarian cancer cells from chemotherapy-induced apoptosis, suggesting that EDD upregulation of Mcl-1 expression may also contribute to cisplatin resistance; however, the requirement for ubiquitin ligase activity for cisplatin resistance, but not for induction of the Mcl-1 promoter, strongly suggests that the regulation of Mcl-1 by EDD is distinct from ...

Cited by: 14

Author: Amber Bradley, Hui Zheng, Angela Ziebar...

Publish Year: 2014

Mir-34: A New Weapon Against Cancer? - ScienceDirect

<https://www.sciencedirect.com/science/article/pii/S2162253116303341>

Overexpression of miR-34a in GBM cells (U251) resulted in suppression of EGFR protein. It was mechanistically shown that miR-34a mediates targeting of Yin Yang-1 (YY1), a transcription factor that can stimulate the expression of EGFR, thus repressing the expression of cell-cycle proteins and EGFR.

Cited by: 350

Author: Gabriella Misso, Maria Teresa Di Martino,...

Publish Year: 2014

Molecular mechanisms in progression of HPV-associated ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6477741>

Apr 23, 2019 - The silencing of E6 and E7 was found to decrease methylation of tumour suppressor genes and reverse the transformed phenotype of cervical cancer cells [61, 63]. Methylation of HPV genes with concomitant silencing of HPV oncogenes could be a strategy of the virus to maintain a long-term infection by evading immune recognition [79].

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Author: Sadhana M. Gupta, Jayanti Mania-Prama...

Publish Year: 2019

Ablation of MCL1 expression by virally induced microRNA-29 ...