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Expression of class 1 histone deacetylases and pre-treatment



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## Histone Deacetylases - PubMed Central (PMC)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3873803>

May 03, 2013 - **Histone deacetylases** (HDACs) are one of the key players in the gene **expression** regulation network in **cancer** because of their repressive role on tumor suppressor genes. Higher **expression** and function of **deacetylases** disrupt the finely tuned acetylation homeostasis in both **histone** and non-histone target proteins.

Cited by: 62

Author: Sabnam Parbin, Swayamsiddha Kar, Aru...

Publish Year: 2014

## Preclinical studies on histone deacetylase inhibitors as ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3273414>

Botrugno OA, Santoro F, Minucci S. **Histone deacetylase inhibitors** as a new weapon in the arsenal of differentiation therapies of **cancer**. **Cancer Lett.** 2009; 280 (2):134–144. HDAC **inhibitors** can act both on **cancer** stem cells and the rest of the tumor cell mass, leading to complex biological outputs. As a note of caution, when used as single ...

Cited by: 12

Author: Brahma N. Singh, Hongyuan Zhou, Jinpin...

Publish Year: 2011

## Histone deacetylases as new therapy targets for platinum ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4954831>

The biological function of histone deacetylases (HDACs) The MEF2 family of transcription factors is one of the important targets of class IIa HDACs. MEF2, major transcriptional activators for the **expression** of **muscle-specific genes**, also regulate other cellular programs, including **neuronal survival**, T cell **apoptosis**...

Cited by: 11

Author: Dmitri Pchejetski, Albandri Alfraidi, Keith ...

Publish Year: 2016

## Combination Therapy With Histone Deacetylase Inhibitors ...

[https://www.researchgate.net/publication/324088058\\_Combination\\_Therapy\\_With\\_Histone...](https://www.researchgate.net/publication/324088058_Combination_Therapy_With_Histone...)

Mar 29, 2018 - HDACs are **dysregulated** in many cancers, making them a therapeutic target for the **treatment** of **cancer**. **Histone deacetylase inhibitors** (HDACi), a novel class of **small-molecular therapeutics**, are now ...

## Histone Deacetylase Inhibitors as Anticancer Drugs ...

## Histone deacetylase



Histone deacetylases are a class of enzymes that remove acetyl groups from an  $\epsilon$ -N-acetyl lysine amino acid on a histone, allowing the histones to wrap the DNA more tightly. This is important because DNA is wrapped around histones, and DNA expression is regulated by acetylation and de-acetylation. Its action

is opposite to that of histone acetyltransferase. HDAC proteins are now also called lysine deacetylases, to describe their function rather than their target, which also includes non-histone proteins.



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## Rational therapeutic combinations with histone deacetylase ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3127396>

**Histone deacetylase inhibitors** potentiate topoisomerase I-mediated DNA damage, growth inhibition and cell death. Vorinostat **enhances** the effect of topotecan and SN-38 (the metabolite of irinotecan) in small-cell lung **cancer** and glioblastoma cells in vitro, respectively [55,56].

**Cited by:** 231**Author:** K Ted Thurn, Scott Thomas, Amy Moore, P...**Publish Year:** 2011

## Histone deacetylase inhibitors (HDACIs): multitargeted ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3584656>

Feb 25, 2013 · **Histone deacetylase (HDAC) inhibitors** are an emerging class of therapeutics with potential as anticancer drugs. The rationale for developing HDAC **inhibitors** (and other chromatin-modifying agents) as anticancer therapies arose from the understanding that in addition to genetic mutations, epigenetic changes such as dysregulation of HDAC enzymes can alter phenotype and gene ...

**Cited by:** 229**Author:** Katherine Ververis, Alison Hiong, Tom C Ka...**Publish Year:** 2013

## The Role of Histone Deacetylases in Prostate Cancer

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2683066>

MS-275 exerts growth arrest and induces cell death in prostate **cancer** cell lines as well as inhibits the growth of subcutaneous xenografts. 123 HDAC **inhibitor** MS-275 restores the retinoid sensitivity in prostate **cancer** cells. 124 Further, it **enhances** the **histone** hyperacetylation and radiosensitivity of DU145 xenografts. 125 The exposure to MS ...

**Cited by:** 124**Author:** Ata Abbas, Sanjay Gupta**Publish Year:** 2008

## Epigenetic targeting drugs potentiate chemotherapeutic ...

<https://www.nature.com/articles/s41598-017-04406-0>

Jun 22, 2017 · **Histone deacetylase (HDAC) inhibitor** LBH589 increases duration of gamma-H2AX foci and confines HDAC4 to the cytoplasm in irradiated non-small cell lung **cancer**. **Cancer Res** 66 , 11298–11304, doi ...

**Cited by:** 19**Author:** Jingjing Li, Dapeng Hao, Li Wang, Haitao W...**Publish Year:** 2017

## Histone Deacetylase: An Epigenetic Target for Cancer ...

<https://www.vin.com/apputil/content/defaultadv1.aspx?pld=11262&id=3865583> ▾



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Jun 22, 2017 · Histone deacetylase (HDAC) inhibitor LBH589 increases duration of gamma-H2AX foci and confines HDAC4 to the cytoplasm in irradiated non-small cell lung cancer. Cancer Res 66 , 11298–11304, doi ...

Cited by: 20

Author: Jingjing Li, Dapeng Hao, Li Wang, Haitao ...

Publish Year: 2017

## (PDF) Sodium Valproate, a Histone Deacetylase Inhibitor ...

[https://www.researchgate.net/publication/267814344\\_Sodium\\_Valproate\\_a\\_Histone...](https://www.researchgate.net/publication/267814344_Sodium_Valproate_a_Histone...)

Sodium Valproate, a Histone Deacetylase Inhibitor, Enhances the Efficacy of Vinorelbine-Cisplatin-based Chemoradiation in Non-small Cell Lung Cancer Cells

## Targeting Histone Demethylases in Cancer Therapy

<https://www.researchgate.net/publication/40027641...>

Targeting Histone Demethylases in Cancer Therapy ... offer the potential to rapidly **enhance** the effectiveness of treatment for resistant cancers. ... and the pan-histone deacetylase inhibitor ...



3

**Name of Journal:** *World Journal of Gastroenterology***Manuscript NO:** 52041**Manuscript Type:** ORIGINAL ARTICLE**Basic Study**

**Histone deacetylase inhibitor pretreatment enhances efficacy of DNA-interacting chemo-drugs in gastric cancer**

Amnekar RV *et al.* Chromatin organization and chemotherapy response

Ramchandra V Amnekar, Shafqat A Khan, Mudasir Rashi, Bharat Khade, Rahul Thorat, Poonam Gera, Shailesh V Shrikhande, Duane T Smoot, Hassan Ashktorab, Sanjay Gupta

**Abstract****BACKGROUND**

The prognosis of gastric cancer continues to remain poor and epigenetic drugs

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