

### Cancer Stem Cells: Implications for Cancer Therapy

<https://pubmed.ncbi.nlm.nih.gov/25510809>

Cancer stem cells have been identified in a number of solid tumors, including breast cancer, brain tumors, lung cancer, colon cancer, and melanoma. Cancer stem cells have the capacity to self-rene...

Cited by: 239 Author: Shaheenah Dawood, Laura Austin, Massi...  
Publish Year: 2014

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<https://www.frontiersin.org/articles/10.3389/fped.2018.00370>

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Cited by: 7 Author: Clemens Zwergel, Annalisa Romanelli, Gi...  
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<https://www.sciencedirect.com/science/article/pii/S1574789112001044>

Dec 01, 2012 - In this review, we described the complex circuit of epigenetic mechanisms that contributes to the acquisition and maintenance of self-renewal and stemness features by a population o...

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**Medulloblastoma (MB)** is one of the most frequent and extensively studied pediatric brain tumors. According to the WHO-classification of central nervous system tumors, four main genetically defined subgroups have been described: WNT, SHH, group 3, and group 4. Each of these groups has its unique expression signature and clinical outcome (1–4). Guerreiro Stucklin et al. recently well-summarized the differences in biological and clinical behavior between subgroups (3). Because of the heterogeneity of t...

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Feb 01, 2017 · Since epigenetic changes such as DNA methylation and histone modifications are crucial factors in developmental programming of stem cells to specific lineages of cellular and tissue...

Cited by: 174 Author: Tan Boon Toh, Jhin Jieh Lim, Edward Kai-H...

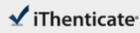
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**Name of Journal:** *World Journal of Stem Cells*  
**Manuscript NO:** 65011  
**Manuscript Type:** OPINION REVIEW

**Epigenetic modulators for brain cancer stem cells: Implications for anticancer treatment**

Abballe L *et al.* Epigenetic modulators for brain CSCs

Luana Abballe, Evelina Miele

**Abstract**

Primary malignant brain tumors are a major cause of morbidity and mortality in both adults and children, with a dismal prognosis despite multimodal therapeutic approaches. In the last years, a specific subpopulation of cells within the tumor bulk, named cancer stem cells (CSCs) or tumor-initiating cells have been identified in brain tumors as responsible for cancer growth and disease progression. Stemness features of tumor cells strongly affect treatment response, leading the escape from conventional

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## Brain Cancer Stem Cells in Adults and Children: Cell ...

<https://pubmed.ncbi.nlm.nih.gov/28374184>

Brain tumors represent some of the most malignant cancers in both children and adults. Current **treatment** options target the majority of tumor **cells** but do not adequately target self-renewing **cancer**...

**Cited by:** 56 **Author:** Tamara J. Abou-Antoun, James S. Hale, Ju...

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<https://www.nature.com/articles/s41591-019-0376-8>

11/20/2019. For example, epigenetic therapies that target histone deacetylase may be useful to repress...