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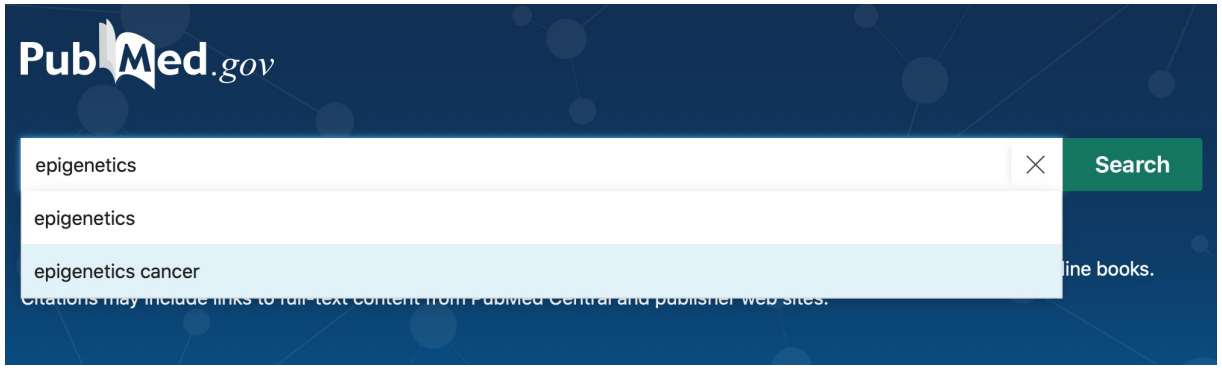

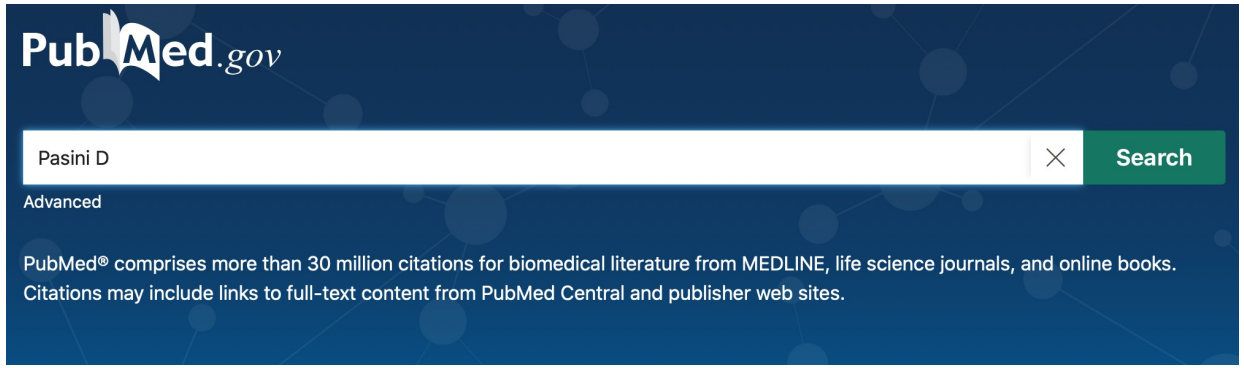

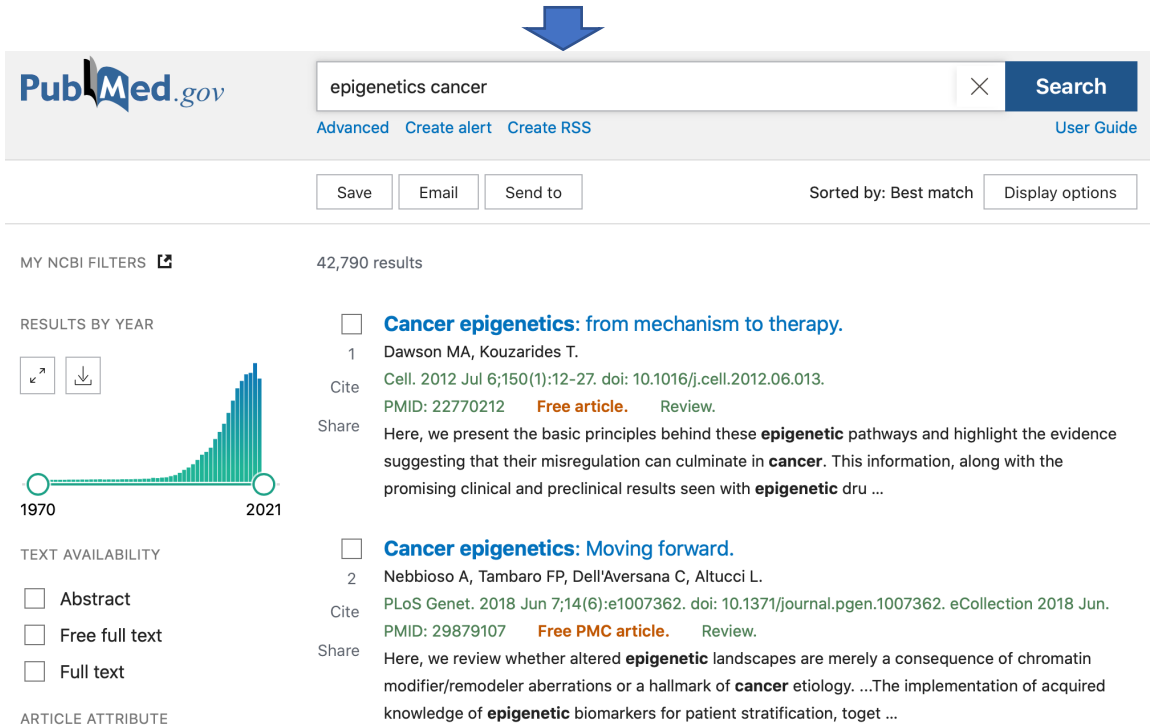

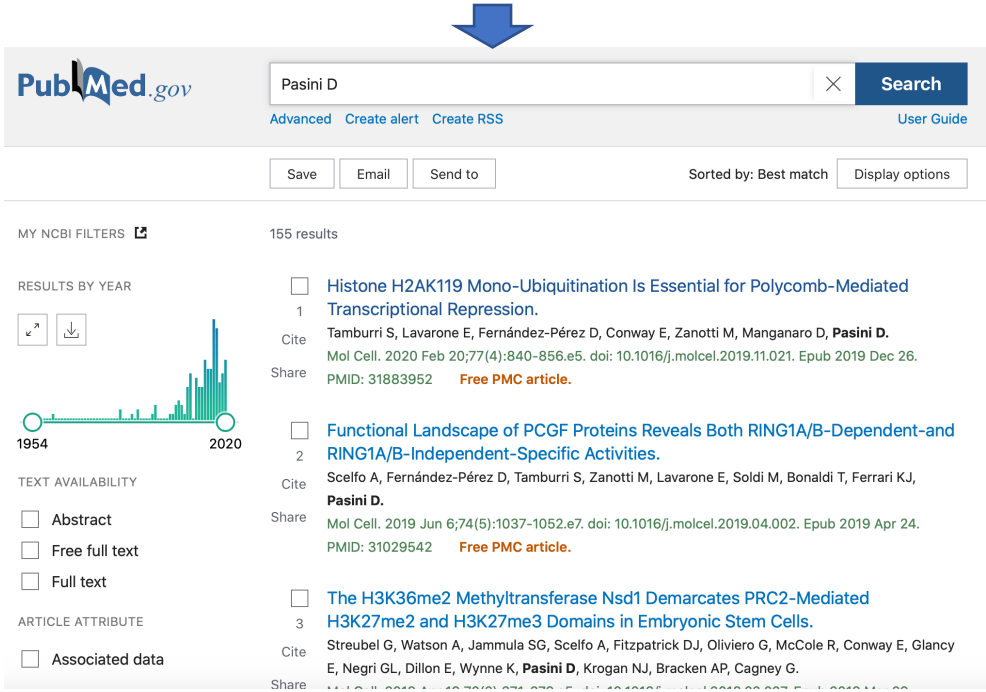

Componenti di una citazione

1 Histone H2AK119 Mono-Ubiquitination Is Essential for Polycomb-Mediated Transcriptional Repression.

Cite

Tamburri S, Lavarone E, Fernández-Pérez D, Conway E, Zanotti M, Manganaro D, **Pasini D.**

Mol Cell. 2020 Feb 20;77(4):840-856.e5. doi: 10.1016/j.molcel.2019.11.021. Epub 2019 Dec 26.

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Titolo

Lista degli autori

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> Mol Cell. 2020 Feb 20;77(4):840-856.e5. doi: 10.1016/j.molcel.2019.11.021. Epub 2019 Dec 26.

Histone H2AK119 Mono-Ubiquitination Is Essential for Polycomb-Mediated Transcriptional Repression

Simone Tamburri [1], Elisa Lavarone [1], Daniel Fernández-Pérez [2], Eric Conway [1], Marika Zanotti [1], Daria Manganaro [1], Diego Pasini [3]

Affiliations + expand

PMID: 31883952 PMCID: PMC7033561 DOI: 10.1016/j.molcel.2019.11.021

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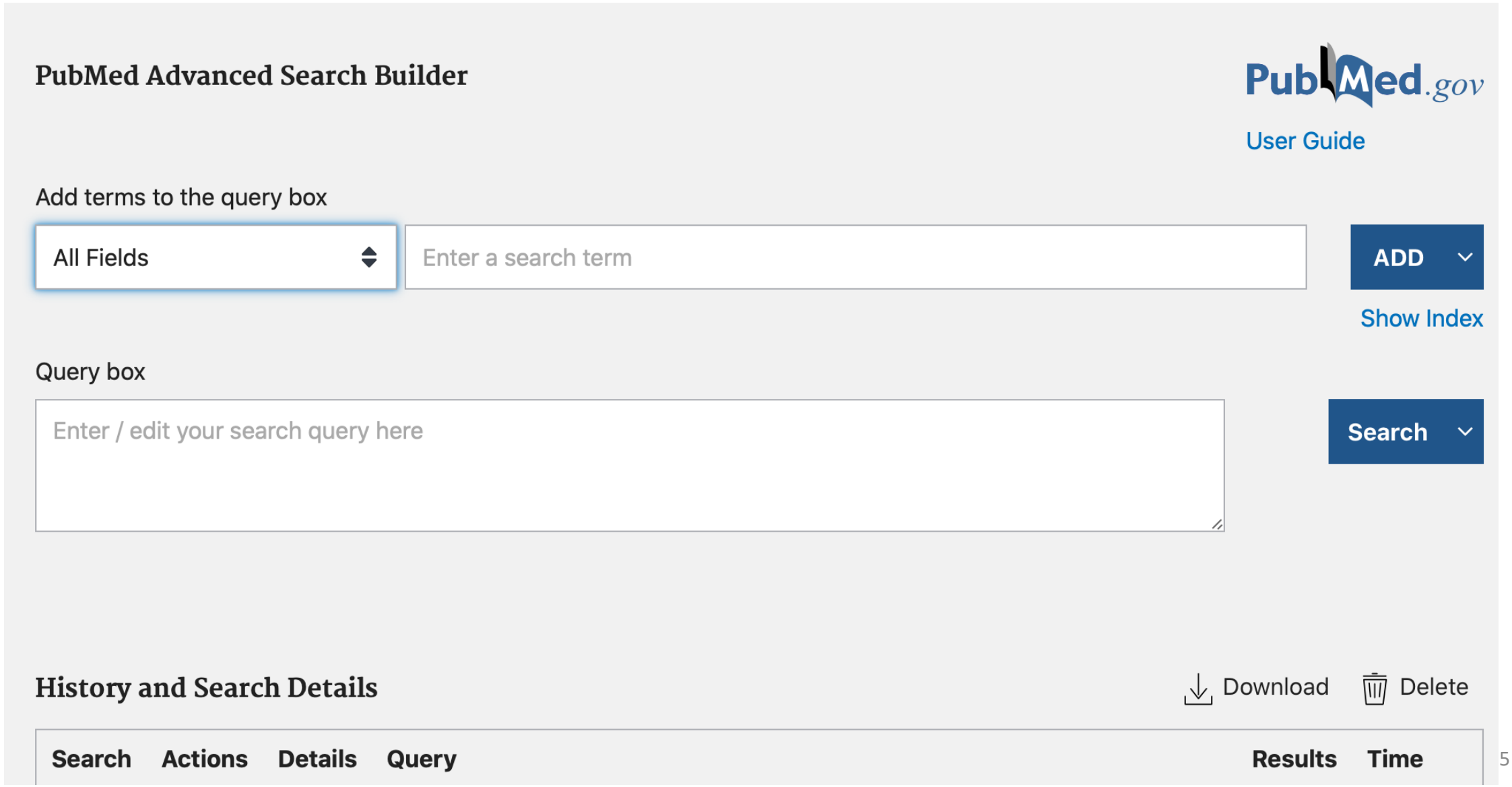
Abstract

Polycomb group proteins (PcGs) maintain transcriptional repression to preserve cellular identity in two distinct repressive complexes, PRC1 and PRC2, that modify histones by depositing H2AK119ub1 and H3K27me3, respectively. PRC1 and PRC2 exist in different variants and show a complex regulatory cross-talk. However, the contribution that H2AK119ub1 plays in mediating PcG repressive functions remains largely controversial. Using a fully catalytic inactive RING1B mutant, we demonstrated that H2AK119ub1 deposition is essential to maintain PcG-target gene repression in embryonic stem cells (ESCs). Loss of H2AK119ub1 induced a rapid displacement of PRC2 activity and a loss of H3K27me3 deposition. This preferentially affected PRC2.2 variant with respect to PRC2.1, destabilizing canonical PRC1 activity. Finally, we found that variant PRC1 forms can sense H2AK119ub1 deposition, which contributes to their stabilization specifically at sites where this modification is highly enriched. Overall, our data place H2AK119ub1 deposition as a central hub that mounts PcG repressive machineries to preserve cell transcriptional identity.

Keywords: Chromatin modifications; H2AK119ub1; H3K27me3; JARID2; MTF2; PRC1; PRC2; Polycomb; RING1B; transcriptional repression.

Advanced search



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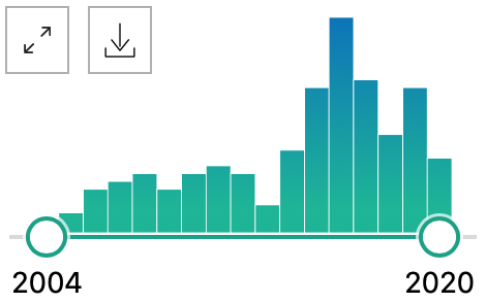

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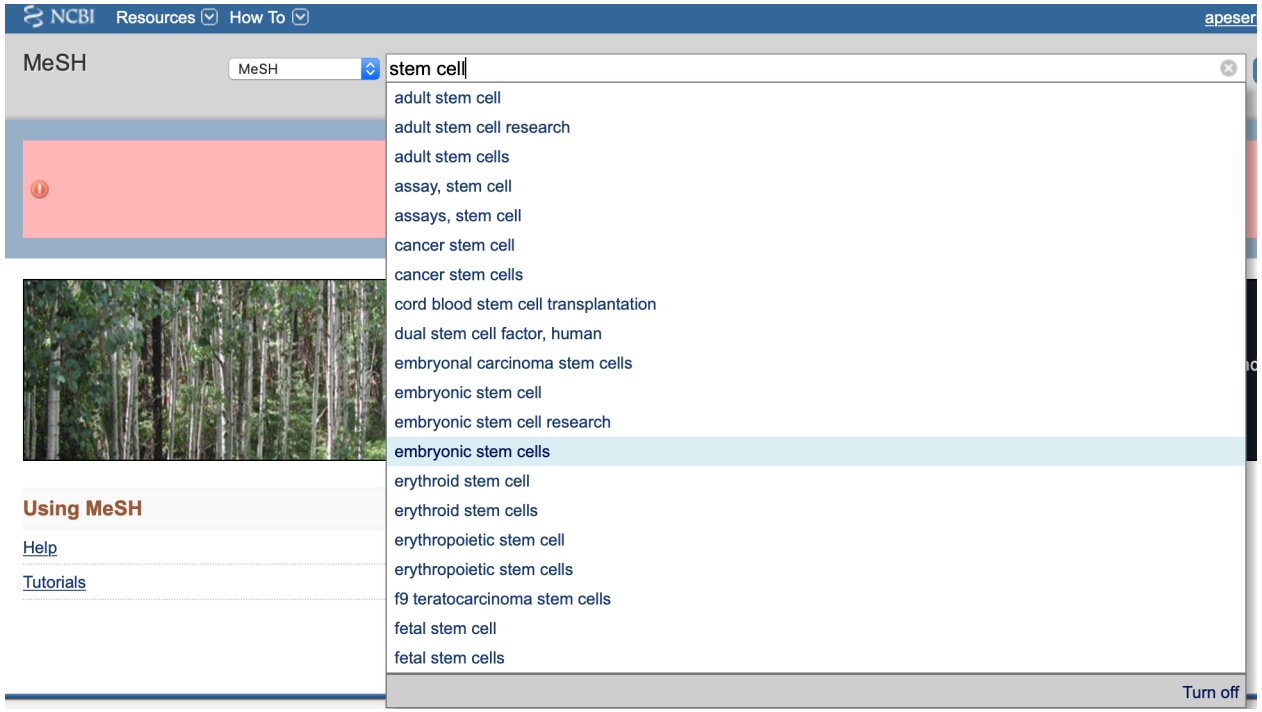

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Gerarchia del MeSH

Dal vocabolario MeSH al database PubMed...

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Relatively undifferentiated cells that retain the ability to divide and proliferate throughout postnatal life to provide progenitor cells that can differentiate into specialized cells.
Year introduced: 1984

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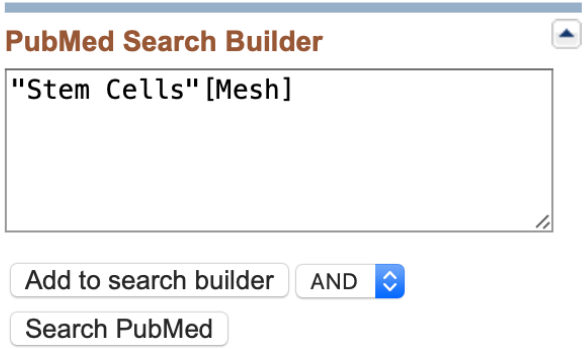

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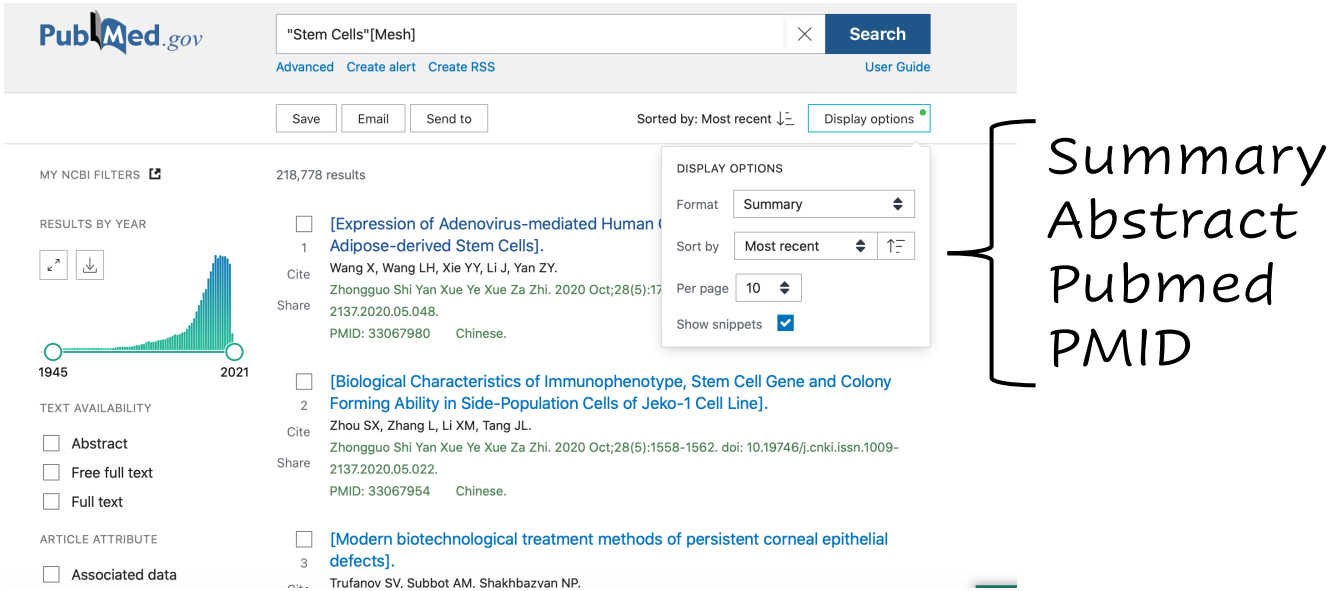


Summary
Abstract
Pubmed
PMID

› Zhongguo Shi Yan Xue Ye Xue Za Zhi. 2020 Oct;28(5):1718-1725.
doi: 10.19746/j.cnki.issn.1009-2137.2020.05.048.

[Expression of Adenovirus-mediated Human Clotting Factor IX Gene in Mouse Adipose-derived Stem Cells]

[Article in Chinese]

Xin Wang [1], Lin-Hong Wang [1], Yan-Yan Xie [1], Jie Li [1], Zhen-Yu Yan [2]

Affiliations + expand

PMID: 33067980 DOI: 10.19746/j.cnki.issn.1009-2137.2020.05.048

Abstract in English, Chinese

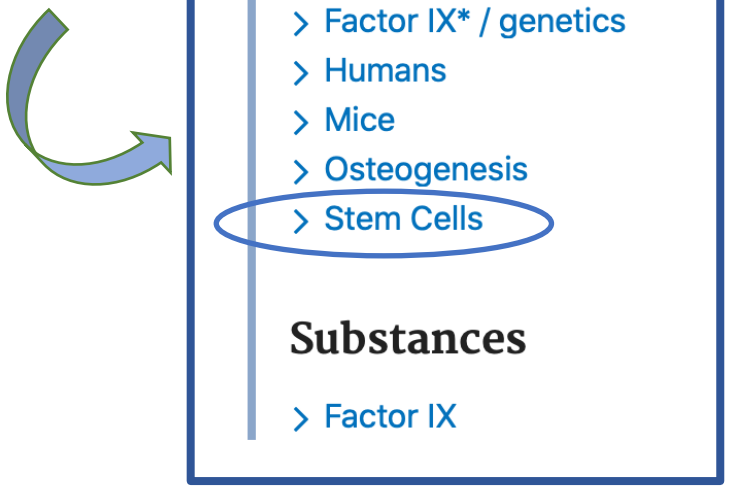
Objective: To investigate the adenovirus-mediated expression of human clotting factor IX (hFIX) gene in mouse adipose-derived stem cells(ADSC).

Methods: The mouse ADSC were isolated and cultured in vitro, the morphology of cells was observed and its growth viability was detected by using CCK-8. Cell surface markers

Conclusion: Adenovirus-carried hFIX gene can effectively transfect ADSC. ADSC m gene can secrete hFIX protein with coagulation activity.

SUPPLEMENTARY INFO

MeSH terms, Substances + expand



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A progressive, malignant disease of the blood-forming organs, characterized by distorted proliferation and development of leukocytes and their precursors in the blood and bone marrow. Leukemias were originally termed acute or chronic based on life expectancy but now are classified according to cellular maturity. Acute leukemias consist of predominately immature cells; chronic leukemias are composed of more mature cells. (From The Merck Manual, 2006)

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☐ cerebrospinal fluid	☐ ethnology	☐ psychology
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☐ chemically induced	☐ genetics	☐ rehabilitation
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☐ classification	☐ immunology	☐ statistics and numerical data
☐ complications	☐ legislation and jurisprudence	☐ surgery
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☐ cytology	☐ microbiology	☐ therapy
☐ diagnosis	☐ mortality	☐ transmission
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☐ diet therapy	☐ organization and administration	☐ urine
☐ drug effects	☐ parasitology	☐ veterinary

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^{18}FDG-PET imaging and histopathology in neuroleukemiosis with acute myeloid leukemia

Yusuke Kiyoki [1], Ryota Matsuoka [2], Tomohiro Kaneta [3], Hidekazu Nishikii [4]

Affiliations + expand

PMID: 32865707 DOI: 10.1007/s12185-020-02976-w

No abstract available

SUPPLEMENTARY INFO

Publication types, MeSH terms, Substances, Grant support − collapse

MeSH terms

- Adult
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- Fatal Outcome
- Fluorodeoxyglucose F18*
- Granulocyte Precursor Cells / pathology
- Humans
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- Leukemia, Myeloid, Acute / diagnostic imaging*
- Leukemia, Myeloid, Acute / drug therapy
- Leukemia, Myeloid, Acute / pathology*
- Leukemic Infiltration*
- Male
- Meninges / pathology*
- Peripheral Nerves / pathology*
- Positron Emission Tomography Computed Tomography / methods*
- Positron-Emission Tomography / methods*
- Radiopharmaceuticals*

> Lancet Oncol. 2020 Sep;21(9):1142. doi: 10.1016/S1470-2045(20)30421-6. Epub 2020 Jul 30.

Potential new method for rapid diagnosis of radiation sickness

Elizabeth Gourd

PMID: 32738931 PMCID: PMC7392597 DOI: 10.1016/S1470-2045(20)30421-6

Free PMC article

No abstract available

1 figure

SUPPLEMENTARY INFO

Publication types, MeSH terms − collapse

MeSH terms

- Hematologic Tests / methods*
- Humans
- Leukemia / blood
- Leukemia / pathology
- Leukemia / radiotherapy*
- Radiation Injuries / blood
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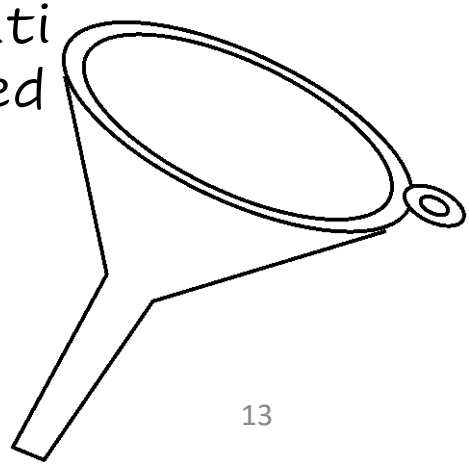

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> Mol Cell. 2020 Feb 20;77(4):840-856.e5. doi: 10.1016/j.molcel.2019.11.021. Epub 2019 Dec 26.

Histone H2AK119 Mono-Ubiquitination Is Essential for Polycomb-Mediated Transcriptional Repression

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Affiliations + expand

PMID: 31883952 PMCID: PMC7033561 DOI: 10.1016/j.molcel.2019.11.021

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Abstract

Polycomb group proteins (PcGs) maintain transcriptional repression to preserve cellular identity in