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Manuscript NO: 57595

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<sup>3</sup> The effect of metformin on stem cells: Molecular mechanism and clinical prospect

<sup>3</sup> Jiang LL *et al.* Effect of metformin on stem cells

Lin-Li Jiang, Lei Liu

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**Cited by:** 28

**Author:** Nipun Saini, Xiaohe Yang

**Publish Year:** 2018

## [Effects of metformin on colorectal cancer stem cells ...](#)

<https://www.nature.com/articles/s41598-017-18762-4>

Jan 11, 2018 · Metformin has been known to suppress cancer stem cells (CSCs) in some cancers. However, the **differential** effects of metformin on CSCs and their mechanisms have not been reported. Herein, metformin...

**Cited by:** 25

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**Metformin exposure** induces **antiproliferative effects** in cancer stem cell-enriched cultures, isolated from three individual WHO grade IV human glioblastomas. These effects phenocopy metformin-mediated inhibition of a chloride current specifically dependent on CLIC1 functional activity.

**Cited by:** 69**Author:** Marta Gritti, Roberto Würth, Marina Angelin...**Publish Year:** 2014

## Metformin Suppresses Cancer Stem Cells through AMPK ...

<https://www.mdpi.com/2072-6694/12/9/2554> ▾

Metformin is a well-known AMPK (AMP-activated protein kinase) activator that suppresses cancer stem cells (CSCs) in some cancers. However, the mechanisms of **the CSC-suppressing effects** of metformin are not **yet well understood**. In this study, we investigated **the CSC-suppressive effect of metformin via the mevalonate (MVA) pathway in colorectal cancer (CRC)**.

**Author:** Yoojeong Seo, Janghyun Kim, Soo Jung...**Publish Year:** 2020

## Metformin (Hydrochloride) | STEMCELL Technologies

<https://www.stemcell.com/metformin.html> ▾

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Author: Emilie Jaune, Emilie Jaune, Stéphane Ro...

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### [Metformin and Cancer Stem Cells: Old Drug, New Targets ...](#)

<https://cancerpreventionresearch.aacrjournals.org/content/5/3/351> ▼

Mar 01, 2012 · In this issue of the journal, Bao and colleagues report (beginning on page 355) that the antidiabetic drug **metformin** targets pancreatic cancer **stem cells** through, at least partially, the modulation of miRNA expression and subsequent regulation of **stem cell** renewal and signaling factors. In this Perspective, we briefly discuss the cancer **stem cell** hypothesis, its **clinical** relevance, and how ...

Cited by: 57

Author: Filip Bednar, Diane M. Simeone

Publish Year: 2012

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