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Bone marrow microenvironment: The guardian of leukemia stem cells



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The bone marrow microenvironment (BMM) plays a critical role in hematopoietic stem cells (HSCs) maintenance and regulation. There is increasing interest in the role of the BMM in promoting leukemia stem cell (LSC) maintenance, resistance to conventional chemotherapy and targeted therapies, and ultimately disease relapse.

[Influence of Bone Marrow Microenvironment on Leukemic Stem ...](#)

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In the bone marrow, hematopoietic stem cells (HSCs) are essential for the production of both lymphoid and myeloid cells, which are necessary for the body's immune integrity, oxygen delivery, blood clotting, waste removal, and a multitude of physiologic processes necessary for survival.

Cited by: 87 Author: Felix Nwajei, Felix Nwajei, Marina Konopl...

Publish Year: 2013

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The bone marrow microenvironment – Home of the leukemic blasts. Author links open overlay panel Manar S Shafat a Bruno Gnanewaran b Kristian M Bowles a c Stuart A Rushworth a. ... M. Konopleva, C. JordanLeukemia stem cells and microenvironment: biology and therapeutic targeting. J Clin Oncol, 33 (2015) 584–598

Name of Journal: *World Journal of Stem cells*

Manuscript NO: 46667

Manuscript Type: REVIEW

Bone marrow microenvironment: The guardian of leukemia stem cells

Houshmand M *et al.* Leukemic bone marrow microenvironment

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Kazemi, Giuseppe Saglio, Mahin Nikougofar Zarif

Abstract

Bone marrow microenvironment (BMM) is the main sanctuary of leukemic stem cells (LSCs) and protects these cells against conventional therapies. However, it may open up

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Summary: the **bone marrow microenvironment** induces a **stem cell**-like phenotype in **leukemia cells**. We have identified several key signaling pathways including cMet, Wnt, NFκB and Stat3 that may lead to acquisition of **stem cell** phenotype under the influence of the BME. These factors may also facilitate **leukemic cell** survival during chemotherapy.



Bone Marrow Microenvironment Induces Stem Cell-Like ...

www.bloodjournal.org/content/122/21/2457?sso-checked=true

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The bone marrow microenvironment and leukemia: biology ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3131221>

Overview of **bone marrow microenvironment & hematopoietic malignancies**. Another group demonstrated that **culturing bone marrow stromal cells** grown from CD133 + /CD34 + **stem cells** from **acute leukemia** patients can lead to the formation of **capillary-like** structures on a **basement membrane matrix** [14].

Cited by: 93

Author: Edward Allan R Sison, Patrick A Brown

Publish Year: 2011

The bone marrow microenvironment—driver of leukemia ...

sci.amegroups.com/article/view/13660/13962

The bone marrow microenvironment—driver of leukemia evolution? The **hematopoietic microenvironment** while crucial for maintaining healthy self-renewal and differentiation of **hematopoietic stem** and **progenitor cells** (HSPCs) may also be a source for deleterious signals that may cause damage to HSPCs leading to disease (1,2).

Author: Mayra Garcia, Ching-Cheng Cheng Publish Year: 2017

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