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The Role of bioactive lipids in cancer stem cells

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[PDF] Bioactive Lipids in Stem Cell Differentiation

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Bioactive lipids are **lipids** with **cell signaling functions**. In the last two decades, they have become increasingly important in many fields of biology. They are the main diffusible mediators of **inflammatory** responses in tissues and regulate the polarity of cellular **membranes**.

Lipid metabolic reprogramming in cancer cells | Oncogenesis

www.nature.com › oncogenesis

Jan 25, 2016 · Abstract. Many human diseases, including metabolic, **immune** and central nervous system disorders, as well as **cancer**, are the consequence of an alteration in **lipid** metabolic enzymes and their pathways. This illustrates the fundamental **role** played by **lipids** in maintaining membrane homeostasis and normal function in healthy **cells**.

Cited by: 364 **Author:** S Beloribi-Djefaflia, Sophie Vasseur, Fabi...
Publish Year: 2016 **Author:** S Beloribi-Djefaflia

Bioactive Lipids - an overview | ScienceDirect Topics

https://www.sciencedirect.com/.../**bioactive-lipids**

Bioactive Lipids Provide Chemoattractant Gradient for **HSPC Trafficking**. The **bioactive lipid** S1P is chemoattractant for **blood-forming stem cells**. Increased S1P levels in the plasma compared to the BM direct the egress of HSPC from the BM to circulation during mobilization (Golan et ...

Lipid metabolic reprogramming in cancer cells

www.ncbi.nlm.nih.gov › ... › Oncogenesis › v.5(1); 2016 Jan

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INTRODUCTION

Cancer progression is characterized by a continuous changeable state generating a very complex and heterogeneous multitude of cells with different morphology, genotype and phenotype. This heterogeneity is explained by two main models: the clonal evolution model and the cancer stem cell model. According to the cancer stem cell model, cancers are a heterogeneous combination of genetically different subclones that are arranged in an organised hierarchy, with cancer stem cells (CSCs) at the apex[1,2]. According to the stem cell theory for cancer, only a subset of cancer cells is accountable for tumour initiation and propagation[3]. CSCs primary functional characteristics are similar to normal stem cells such as the capacity to self-renew and the ability to differentiate in different cell types. CSCs

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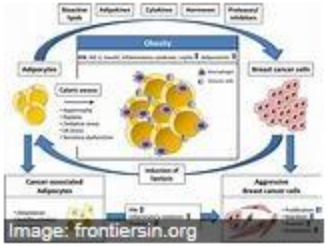
The role of bioactive lipids in **stem cell** homing/mobilization and **cancer** metastasis. Dr. Ratajczak's laboratory is to elucidate the **role of** sphingosine-1 phosphate and ceramid-1 phosphate in regulating normal human hematopoiesis and directing mobilization and homing of various BM-derived adult **stem cells**.



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Lipid metabolic reprogramming in cancer cells | Oncogenesis
https://www.nature.com/articles/oncsis201549
Jan 25, 2016 · Today, the central role played by bioactive lipids and **FAs** as mediators of this crosstalk between **cancer cells** and **stroma** is increasingly recognized. **Cancer-stroma interplay** through free FAs

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Lipid metabolic reprogramming in cancer cells
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