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Lipid metabolic reprogramming in cancer cells | Oncogenesis

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Author: S Beloribi-Djefafia, Sophie Vasseur, Fabi...

Publish Year: 2016

Author: S Beloribi-Djefafia

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 ...

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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 heterogeneity⁴ 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 cancer stem cells



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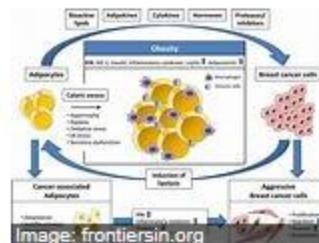
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The role of bioactive lipids in stem cell

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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