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miRNAs as Biomarkers and Therapeutic Targets in Non-Small ...

Feb 27, 2017 - Up to 85% of **lung cancer** cases are diagnosed as non-small cell **lung cancer** (NSCLC). ... Targets in Non-Small Cell **Lung Cancer**: Current **Perspectives** ... Potential **clinical** applications of **miRNAs** as biomarkers for diagnosis and ... and the presence of radiation-resistant cancer **stem cells** with a high ...

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Exosomes derived from a cisplatin-resistant **lung cancer cell** line (A549) had ... The morphology of **exosomes** as visualized in TEM images is largely **defined** as a ... and delivery of therapeutic **payload** into the recipient **cells** making **exosomes** as ... Although various nanoparticles have been designed for drug delivery, **clinical** ...

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Exosomal microRNA: A Diagnostic Marker for Lung Cancer ...

Role of **exosomal microRNAs** in **lung cancer** biology and **clinical** applications ... and Future **Perspectives** on Mesenchymal **Stem Cell-Derived Exosomes** as a ...

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First, **cancer cells** use **exosomal miRNAs** as signaling molecules to promote the formation of CAFs and modulate the functions of **cancer cells**. Secondly, **miRNA dysregulation** is closely related to CAF activation and **formation**, and affects the tumor-supportive capability of CAFs in ...

Cited by: 31**Author:** Fengming Yang, Zhiqiang Ning, Ling M...**Publish Year:** 2017

[microRNA: Diagnostic Perspective](#)

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Aug 03, 2015 · **microRNAs** have been demonstrated to play a major role in a wide range of developmental processes including metabolism, apoptosis, **cell proliferation**, **stem cell division**, muscle differentiation, and brain morphogenesis (18–20). Since this pivotal role in the regulation of these processes related to development and other physiological functions, **miRNAs deficiencies** have been linked to a number of diseases ranging from **cancer** ...

Cited by: 29**Author:** Omar Faruq, Andrea Vecchione**Publish Year:** 2015

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Feb 28, 2020 · The miR-99 family (miR-99a, miR-99b, and miR-100) of **miRNAs** are also highly conserved **miRNAs**, highly expressed in **stem cells**, and are downregulated in **lung** injury and **cancer** 41,42. Different ...

Author: Phuong-Uyen C. Dinh, Dipti Paudel... **Publish Year:** 2020

[\(PDF\) Exosomal miRNAs and miRNA dysregulation in cancer ...](#)

https://www.researchgate.net/publication/319366015_Exosomal_miRNAs_and_miRNA...

Exosomal miRNAs secreted by CAFs and NFs impact migration, invasion, and metastasis in **cancer cells**, and dictate an aggressive **cancer phenotype**. **Exosomal miRNAs modulate**

Lung Cancer Stem Cells Exosomal-payload of miRNAs in



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Exosomal miRNAs and miRNA dysregulation in cancer ...

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Exosomal **miRNAs** modulate **cancer cell** metabolism . **Cancer** metabolism alters tumorigenesis, which is vital for sustaining the proliferation and progression of **cancer cells** in order to support their escape from stringent regulation [92, 93]. Reducing **cancer cell** metabolism may be a new approach for **cancer** prevention and treatment .

Cited by: 31**Author:** Fengming Yang, Zhiqiang Ning, Ling Ma, ...**Publish Year:** 2017

MicroRNA in lung cancer: role, mechanisms, pathways and ...

<https://www.sciencedirect.com/science/article/pii/S0098299718300657>

miRNAs in exosomes and lung cancer stem cells Exosomes are defined as small **secreted vesicles** **30–150 nm** in diameter. These vesicles mediate a number of biological processes such as immune response, metastasis, drug resistance, tumorigenesis and so on (Zhang and Liu, 2017) by transferring mRNA, protein, and miRNA to recipient cells.

Cited by: 17**Author:** Mohammad Askandar Iqbal, Shweta Aror...**Publish Year:** 2019

Inhalation of lung spheroid cell secretome and exosomes ...

<https://www.nature.com/articles/s41467-020-14344-7>

Feb 28, 2020 · The **miR-99 family** (**miR-99a**, **miR-99b**, and **miR-100**) of miRNAs are also highly conserved miRNAs, highly expressed in stem cells, and are downregulated in lung injury and cancer 41,42. Different ...

Author: Phuong-Uyen C. Dinh, Dipti Paudel, H...**Publish Year:** 2020

4 **Name of the Journal:** *World J of Stem Cells*

Manuscript NO: 54252

Manuscript Type: REVIEW

Defining lung cancer stem cells exosomal payload of miRNAs in clinical perspective

Aramini B *et al.* Exosomal miRNAs from lung CSCs

Beatrice Aramini, Valentina Masciale, Khawaja Husnain Haider

Abstract

Since the first publication regarding the existence of stem cells in cancer [cancer stem cells (CSCs)] in 1994, many studies have been published providing in-depth information about their biology and function. This research has paved the way in terms of appreciating the role of CSCs in tumour aggressiveness, progression, recurrence and resistance to cancer therapy. Targeting CSCs for cancer therapy has still not progressed to a sufficient degree, particularly in terms of exploring the mechanism of dynamic interconversion between CSCs and non-CSCs. Besides the CSC scenario, the problem of cancer dissemination has been analyzed in-depth with the identification and isolation of microRNAs (miRs), which are now considered to be compelling molecular markers in the diagnosis and prognosis of tumours in general and specifically in patients with non-small cell lung cancer. Paracrine release of miRs *via* "exosomes" (small membrane vesicles (30-100 nm) the derivation of which lies in the luminal membranes of multi-

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